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Pin codes for BR 930 series relays – Specification

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Summary of pages

This document comprises a front cover, an inside front cover, pages i to ii, pages 1 to 200, an inside back cover and a back cover.

Foreword

Publishing information

This British Standard is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 31 December 2013. It was prepared by Subcommittee GEL/9/1, *Railway Electrotechnical Applications – Signalling and communications*, under the authority of Technical Committee GEL/9, *Railway Electrotechnical Applications*. A list of organizations represented on this committee can be obtained on request to its secretary.

Information about this document

If a previously unallocated pin code is to be used, details of the intended use should be communicated to the secretariat of BSI Committee GEL/9/1 in order that it can be authorized for inclusion in a future revision of this document. Details of any error or omission discovered in this standard should also be reported.

Presentational conventions

The provisions of this standard are presented in roman (i.e. upright) type. Its requirements are expressed in sentences in which the principal auxiliary verb is "shall".

Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.

Contractual and legal considerations

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

1 Scope

This British Standard specifies the pin code configurations and contact arrangements for signalling equipment that uses BR 829 [1] plugboards.

The standard does not cover installation or maintenance requirements.

2 Terms and definitions

For the purposes of this British Standard, the following terms and definitions apply.

2.1 pin code

unique numerical (or alphanumeric) reference allocated to a particular pin code configuration.

NOTE The pin code is sometimes referred to as the 'registration pin code'.

2.2 pin code configuration

unique pattern of locating pins assembled such that the item bearing this pattern of pins can only be connected to a corresponding item of equipment containing a matching unique pattern of holes

3 BR 930 series pin code registration

COMMENTARY ON CLAUSE 3

To ensure correct interchangeability of relays/units, an interlocking pin system is used which is designed to prevent a relay or unit being plugged-in to a fixed plugboard where it could give rise to an unsafe condition. Pins on the rear of the relay/unit locate in holes drilled in the BR 829 plugboard.

Table 1, Table 2 and Table 3 list the applications to which pin code configurations have been allocated, and the configurations shall be used for no other application than that listed. Where a common chassis is provided for a number of potential applications, a separate pin code shall be allocated to each of those applications.

The pin code only covers relay functionality and does not cover all the characteristics of the relay, such as coil resistance, which might vary. It is the responsibility of the end user to establish that the relay is appropriate for the particular application.

NOTE 1 Table 1 lists the numerical codes and pin configurations and the relays and other applications to which they have been allocated for Great Britain (GB) mainline use. Configurations using five pins are allocated to safety critical applications and configurations with six pins to safety related applications. The configurations in both cases are chosen from pins A, B, C, D, E, F, G, H, J, K, L, M, N.

NOTE 2 The configurations described in Note 1, together with additional pins P and/or Q are generally used for Reed frequency division multiplex (FDM) equipment. Equipment allocated configurations that contain both pins P and Q are exchangeable with universal spares. The universal spare with pin code 1360 will fit any base whose configuration includes pins P and Q. The universal spare with pin code 7360 will fit any base whose configuration includes pins A, P and Q.

NOTE 3 Table 2 lists the numerical codes and pin configurations using pins S, T, W, X, Y, Z, for applications other than GB mainline, which have been allocated to specific suppliers. FDM NV equipment allocated configurations that contain both pins X and Z or Y and Z are exchangeable with universal spares. The universal spare with pin code X700 will fit any base whose configuration includes pins X and Z. The universal spare with pin code Y500 will fit any base whose configuration includes pins Y and Z.

NOTE 4 Table 3 lists the numerical codes and pin configurations for applications other than GB mainline, which have not been allocated to specific suppliers. Configurations using five pins are allocated to safety critical applications and configurations with six pins to safety related applications.

4 Pin code and arrangement allocation data

Any reference to front or rear view in this British Standard shall be as illustrated in Figure 1.

The layout of the BR 829 plugboard and the location of the pins shall be as illustrated in Figure 2.

Table 1, Table 2 and Table 3 contain the following columns.

- a) Column 1: Pin code (see 2.1).
- b) Column 2: Pin code configuration (see 2.2).
- c) Column 3: Arrangement (Arr)

This column gives the reference to the arrangement number illustrated in Annex A, which gives all known contact/connector arrangements, using the following notation.

- C Coil
- PU Pick-up coil
- REL Release coil
- F Front contact
- B Back contact
- N Normal contact
- R Reverse contact
- A Contact arm
- H Heavy duty contact
- M Medium duty contact, e.g. Elkonite (silver cadmium oxide to silver cadmium oxide or Elkonite)
- c/o Changeover contacts
- p Palladium contact, i.e. twin-tipped silver palladium to silver palladium, for switching low current and low voltage circuits
- i/p Input
- o/p Output
- +ve Positive
- -ve Negative

- d) Column 4: Specification

This column lists the former British Rail specification numbers (where applicable). Where the number is given in brackets, this implies that the item is based on the specification though not compliant in every respect.

- e) Column 5: Style

The following type letters are used to refer to the relay characteristics.

- N Neutral
- B D.C. Biased

- SR Slow to Release
- SP Slow to Pick-up
- L Latched
- PS Polarized Stick
- J Time Element
- EC Lamp Proving
- UC Multiple Lamp Proving (Route Indicator)
- T Track or Timer
- S Slow-acting
- R Resistor/Miscellaneous Unit
- CU Connection Unit
- SU Shorting Unit
- RR Reed FDM Unit
- RT Reed Track Circuit Unit

Other duplicated letters, such as “NN”, indicate a twin relay (previously designated “H1”).

These are followed by qualifying letters where applicable.

- A A.C. Immune
- C Contactor
- D Double Wound Coil
- E Heavy Duty Contacts
- F Flashing
- H High Release Characteristic
- M Medium Duty Contacts
- X A.C. Operated

Timers are prefixed by qualifying letters where applicable.

- C Contactor
- MT Motor Timer
- ET Electronic Timer
- R Relay Timer

A numerical suffix is used to identify style subgroups where applicable.

f) Column 6: Rating

The rating is the design operating parameter.

g) Column 7: Description

All relays, unless otherwise stated here, operate from d.c. supplies.

Where a.c. is specified, 50 Hz is implied unless otherwise stated.

For timers, the range of delay times is quoted here, but unique pin codes are not used for every time range, since it is necessary to adjust and validate such settings as part of the commissioning process.

h) Column 8: Remarks

The Remarks column gives the original authority or the original application where applicable.

Any special contact material, other than the signalling standard of silver impregnated graphite to fine silver, is also stated here.

Unallocated pin codes are marked "not used".

Figure 1 Front view and rear view of plugboard and plug-in equipment

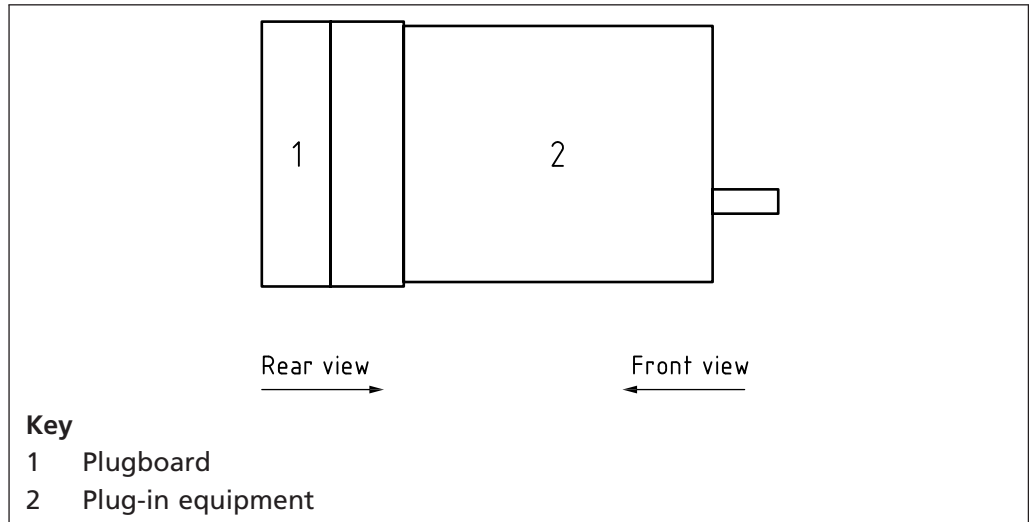


Figure 2 Plugboard (front view)

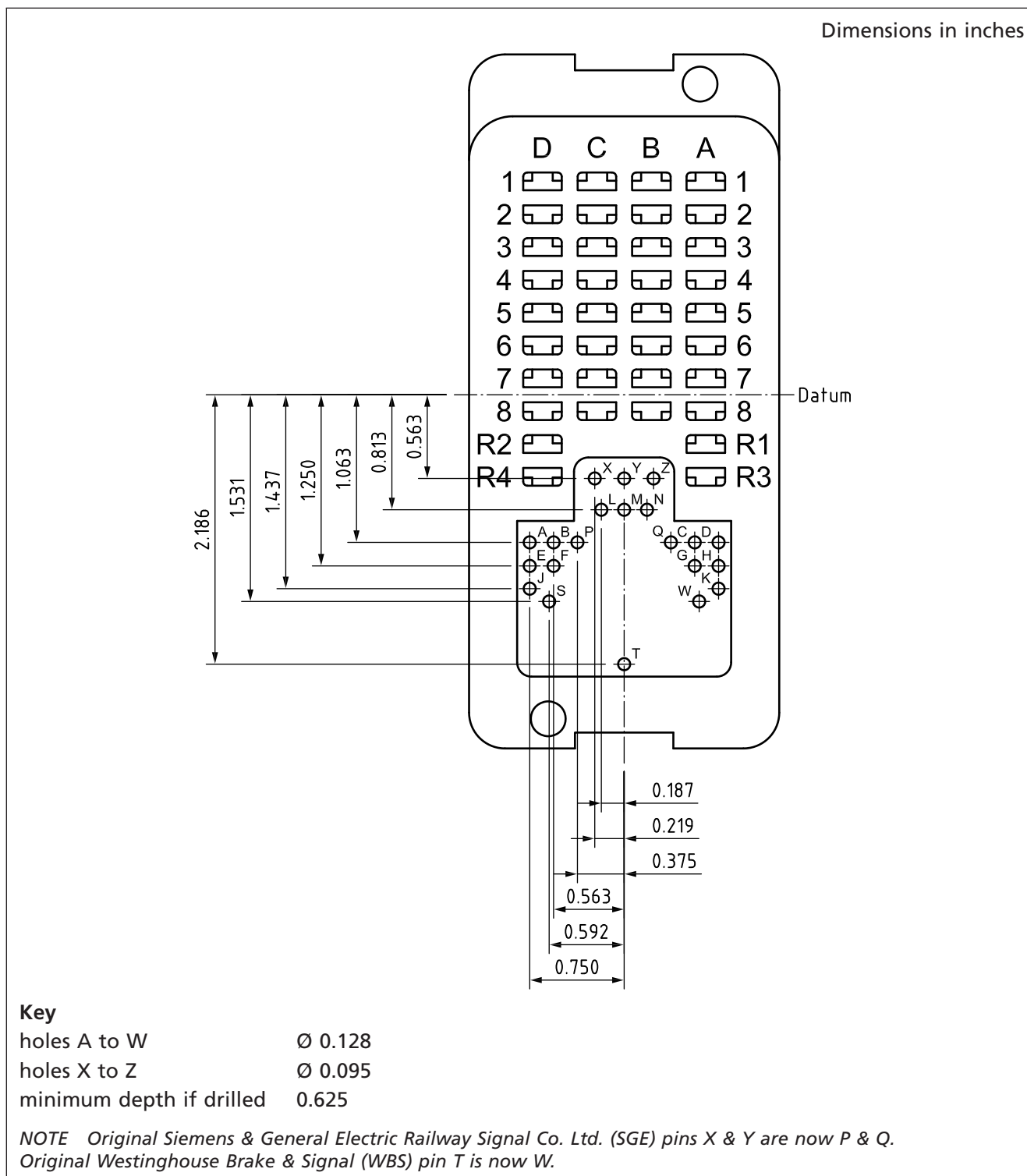


Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
0001	ABCDE	1	8F 4B	BR 930 [2]	N	24 V	D.C. Neutral Line Relay	double wound
		2	8F 4B	BR 930 [2]	ND	24 V	D.C. Neutral Line Relay	
		3	12F 4B	BR 930 [2]	N	24 V	D.C. Neutral Line Relay	
		4	12F 4B	BR 930 [2]	ND	24 V	D.C. Neutral Line Relay	
0002	ABCDF	5	4F 4B	BR 930 [2]	N	24 V	D.C. Neutral Line Relay	double wound
		6	4F 4B	BR 930 [2]	ND	24 V	D.C. Neutral Line Relay	
		7	6F 6B	BR 930 [2]	N	24 V	D.C. Neutral Line Relay	double wound
		8	6F 6B	BR 930 [2]	ND	24 V	D.C. Neutral Line Relay	
		9	8F 8B	BR 930 [2]	N	24 V	D.C. Neutral Line Relay	
		11	8F 8B	BR 930 [2]	ND	24 V	D.C. Neutral Line Relay	
0003	ABCEF	1	8F 4B	BR 930 [2]	N	50 V	D.C. Neutral Line Relay	double wound
		2	8F 4B	BR 930 [2]	ND	50 V	D.C. Neutral Line Relay	
		3	12F 4B	BR 930 [2]	N	50 V	D.C. Neutral Line Relay	
		4	12F 4B	BR 930 [2]	ND	50 V	D.C. Neutral Line Relay	double wound
		10	4B		SU		Geographical Shorting Unit	
0004	ABDEF	5	4F 4B	BR 930 [2]	N	50 V	D.C. Neutral Line Relay	double wound
		6	4F 4B	BR 930 [2]	ND	50 V	D.C. Neutral Line Relay	
		7	6F 6B	BR 930 [2]	N	50 V	D.C. Neutral Line Relay	double wound
		8	6F 6B	BR 930 [2]	ND	50 V	D.C. Neutral Line Relay	
		9	8F 8B	BR 930 [2]	N	50 V	D.C. Neutral Line Relay	
		11	8F 8B	BR 930 [2]	ND	50 V	D.C. Neutral Line Relay	
		12	8B		SU		Geographical Shorting Unit	
0005	ACDEF	1	8F 4B		NH	50 V	D.C. Neutral Line Relay	with high drop away voltage
		3	12F 4B		NH	50 V	D.C. Neutral Line Relay	with high drop away voltage
0006	ABCDG	9	8F 8B		NH	50 V	D.C. Neutral Line Relay	with high drop away voltage
0007	ABCEG	13	8F 6B	BR 935 [3]	L	24 V	D.C. Magnetically Latched Neutral Line Relay	6F 4B and 4F 4B versions might also exist
0008	ABCFG	13	8F 6B	BR 935 [3]	L	50 V	D.C. Magnetically Latched Neutral Line Relay	6F 4B and 4F 4B versions might also exist

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
		14	6B		SU		Geographical Shorting Unit	
0009	ABDEG	27	8F 4B	BR 935 [3]	L	24 V	D.C. Magnetically Latched Neutral Line Relay	(obsolete)
		28	11F 4B	BR 935 [3]	L	24 V	D.C. Magnetically Latched Neutral Line Relay	
		29	12F 4B		L	24 V	D.C. Magnetically Latched Neutral Line Relay	
0010	ABDFG	11	8F 8B	BR 935 [3]	L	24 V	D.C. Magnetically Latched Neutral Line Relay	
0011	ABEFG	27	8F 4B	BR 935 [3]	L	50 V	D.C. Magnetically Latched Neutral Line Relay	(obsolete)
		28	11F 4B	BR 935 [3]	L	50 V	D.C. Magnetically Latched Neutral Line Relay	
		29	12F 4B		L	50 V	D.C. Magnetically Latched Neutral Line Relay	
		10	4B		SU		Geographical Shorting Unit	
0012	ACDEG	30	8F 8B	BR 935 [3]	L	50 V	D.C. Magnetically Latched Neutral Line Relay	
0013	ACDFG	15	12N 4R	(BR 936) [4]	PS	24 V	D.C. Polarized Magnetic Stick Line Relay	(contact arrangement not covered by specification)
0014	ACEFG	16	4N 4R	BR 936 [4]	PS	24 V	D.C. Polarized Magnetic Stick Line Relay	
		17	8N 8R	BR 936 [4]	PS	24 V	D.C. Polarized Magnetic Stick Line Relay	
0015	ADEFG	15	12N 4R	(BR 936) [4]	PS	50 V	D.C. Polarized Magnetic Stick Line Relay	(contact arrangement not covered by specification)
0016	ABCDH	16	4N 4R	BR 936 [4]	PS	50 V	D.C. Polarized Magnetic Stick Line Relay	
		17	8N 8R	BR 936 [4]	PS	50 V	D.C. Polarized Magnetic Stick Line Relay	
0017	ABCEH	18	2F 2B / 2F 2B	BR 961 [5]	BBA1	50 V	Twin A.C. Immune D.C. Biased Neutral Line Relay	
		19	4F 4B / 4F 4B	BR 961 [5]	BBA1	50 V	Twin A.C. Immune D.C. Biased Neutral Line Relay	
0018	ABCFH	20	6F 2B / 6F 2B	(BR 961) [5]	BBA	50 V	Twin A.C. Immune D.C. Biased Neutral Line Relay	with high drop away (not covered by specification)
0019	ABCGH	5	4F 4B		N3	0.105 A	Lamp Proving Relay	
0020	ABDEH	21			R1		Rectifier Unit	eighteen ratings

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
		21			R1	6 Ω	Rectifier-Resistance Unit	
		21			R1	7.8 Ω	Rectifier-Resistance Unit	
		21			R1	9 Ω	Rectifier-Resistance Unit	
		21			R1	10 Ω	Rectifier-Resistance Unit	
		21			R1	14 Ω	Rectifier-Resistance Unit	
		21			R1	15 Ω	Rectifier-Resistance Unit	
		21			R1	18 Ω	Rectifier-Resistance Unit	
		21			R1	22 Ω	Rectifier-Resistance Unit	
		21			R1	32 Ω	Rectifier-Resistance Unit	
		21			R1	51 Ω	Rectifier-Resistance Unit	
		21			R1	64 Ω	Rectifier-Resistance Unit	
		21			R1	81 Ω	Rectifier-Resistance Unit	
		21			R1	102 Ω	Rectifier-Resistance Unit	
		21			R1	105 Ω	Rectifier-Resistance Unit	
		21			R1	150 Ω	Rectifier-Resistance Unit	
		21			R1	260 Ω	Rectifier-Resistance Unit	
		21			R1	380 Ω	Rectifier-Resistance Unit	
0021	ABDFH	1	8F 4B	BR 931 [6]	NA	24 V	A.C. Immune D.C. Neutral Line Relay	
		3	12F 4B	BR 931 [6]	NA	24 V	A.C. Immune D.C. Neutral Line Relay	
0022	ABDGH	5	4F 4B	BR 931 [6]	NA	24 V	A.C. Immune D.C. Neutral Line Relay	
		7	6F 6B	BR 931 [6]	NA	24 V	A.C. Immune D.C. Neutral Line Relay	
		9	8F 8B	BR 931 [6]	NA	24 V	A.C. Immune D.C. Neutral Line Relay	
0023	ABEFH	1	8F 4B	BR 931 [6]	NA	50 V	A.C. Immune D.C. Neutral Line Relay	
		3	12F 4B	BR 931 [6]	NA	50 V	A.C. Immune D.C. Neutral Line Relay	
0024	ABEGH	5	4F 4B	BR 931 [6]	NA	50 V	A.C. Immune D.C. Neutral Line Relay	
		7	6F 6B	BR 931 [6]	NA	50 V	A.C. Immune D.C. Neutral Line Relay	
		9	8F 8B	BR 931 [6]	NA	50 V	A.C. Immune D.C. Neutral Line Relay	

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
0025	ABFGH	1	8F 4B	BR 932 [7]	BA	24 V	A.C. Immune D.C. Biased Neutral Line Relay	
		3	12F 4B	BR 932 [7]	BA	24 V	A.C. Immune D.C. Biased Neutral Line Relay	
0026	ACDEH	5	4F 4B	BR 932 [7]	BA	24 V	A.C. Immune D.C. Biased Neutral Line Relay	
		7	6F 6B	BR 932 [7]	BA	24 V	A.C. Immune D.C. Biased Neutral Line Relay	
		9	8F 8B	BR 932 [7]	BA	24 V	A.C. Immune D.C. Biased Neutral Line Relay	
0027	ACDFH	1	8F 4B	BR 932 [7]	BA	50 V	A.C. Immune D.C. Biased Neutral Line Relay	
		3	12F 4B	BR 932 [7]	BA	50 V	A.C. Immune D.C. Biased Neutral Line Relay	
0028	ACDGH	5	4F 4B	BR 932 [7]	BA	50 V	A.C. Immune D.C. Biased Neutral Line Relay	
		7	6F 6B	BR 932 [7]	BA	50 V	A.C. Immune D.C. Biased Neutral Line Relay	
		9	8F 8B	BR 932 [7]	BA	50 V	A.C. Immune D.C. Biased Neutral Line Relay	
0029	ACEFH	26	8F 4B	BR 966 F7 [8]	NHX	110 V	A.C. Interface Relay for Solid State Interlockings	with high drop away voltage
0030	ACEGH	22	2F / 2F	BR 966 F8 [9]	EECF1	24 V	Twin D.C. Lamp Proving Relay	for flashing road lights at level crossings
0031	ACFGH							reserved
0032	ADEFH							reserved
0033	ADEGH	3	12F 4B		NH	24 V	D.C. Neutral Line Relay	with high drop away voltage
0034	ADFGH	9	8F 8B		NH	24 V	D.C. Neutral Line Relay	with high drop away voltage
0035	AIEFGH	23	2F 1B		JN	50 V	Neutral Relay & Thermal Timer (5-15s)	
0036	ABCDJ	24	1F 1B		JN	50 V	Neutral Relay & Thermal Timer (30-120s)	
0037	ABCEJ	24	1F 1B		JN	50 V	Neutral Relay & Thermal Timer (60-180s)	
0038	ABCFJ	25	4F 4B		EC	0.43 A	D.C. Lamp Proving Relay	for use with Stencil Route Indicators
0039	ABCGJ	24	1F 1B		JN	50 V	Neutral Relay & Thermal Timer (15-30s)	
0040	ABCHJ	1	8F 4B		BSRA	50 V	A.C. Immune D.C. Biased Line Relay Slow Release	

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
0041	ABDEJ	26	8F 4B	BR 933 [10]	SPA	24 V	A.C. Immune D.C. Neutral Line Relay Slow Pick Up	
0042	ABDFJ	42	4F 2B		N3	0.2 A	D.C. Lamp Proving Relay	
0043	ABDGJ	26	8F 4B	BR 933 [10]	SPA	50 V	A.C. Immune D.C. Neutral Line Relay Slow Pick Up	
0044	ABDHJ	5	4F 4B	(BR 940) [16]	EC	50 V	A.C. Immune D.C. Neutral Line Relay Slow Acting	very slow acting (obsolete)
		7	6F 6B			50 V	A.C. Immune D.C. Neutral Line Relay Slow Acting	very slow acting (obsolete)
		9	8F 8B			50 V	A.C. Immune D.C. Neutral Line Relay Slow Acting	very slow acting (obsolete) (double allocated)
		48	4F 4B			0.2 A	D.C. Lamp Proving Relay	for 110 V 12 W LEDs (used by Mors Smitt)
0045	ABEFJ	42	4F 2B		N3	1.3 A	D.C. Lamp Proving Relay	
0046	ABEGJ	25	4F 4B		N3	0.25 A	D.C. Lamp Proving Relay	existence in doubt
		48	4F 4B			0.25 A	D.C. Lamp Proving Relay	
0047	ABEHJ	3	12F 4B			50 V	A.C. Immune D.C. Biased Line Relay	(double allocated)
		1	8F 4B			0.18 A	D.C. Lamp Proving Relay	for use with SL34 Lamps Relay
0048	ABFGJ	5	4F 4B				Reed Follower Relay	matched to reed system
		1	8F 4B				Reed Follower Relay	
0049	ABFHJ	20	6F 2B / 6F 2B	BR 961 [5]	BBA	50 V	Twin A.C. Immune D.C. Biased Neutral Line Relay	
		20	6F 2B / 6F 2B	BR 961 [5]	BBA	50 V	Twin A.C. Immune D.C. Biased Neutral Line Relay	
0050	ABGHJ	19	4F 4B / 4F 4B		NNH	24 V	Twin D.C. Neutral Line Relay	with high drop away
0051	ACDEJ	20	6F 2B / 6F 2B		NNH	24 V	Twin D.C. Neutral Line Relay	with high drop away
0052	ACDFJ	19	4F 4B / 4F 4B		NNH	50 V	Twin D.C. Neutral Line Relay	with high drop away
0053	ACDGJ	20	6F 2B / 6F 2B		NNH	50 V	Twin D.C. Neutral Line Relay	with high drop away
0054	ACDHJ	32	2F 1B / 2F 1B	BR 960 [11]	NND	24 V	Twin D.C. Neutral Line Relay	double wound
		33	4F 3B / 4F 3B	BR 960 [11]	NND	24 V	Twin D.C. Neutral Line Relay	double wound
0055	ACEFJ	34	6F 1B / 6F 1B	BR 960 [11]	NND	24 V	Twin D.C. Neutral Line Relay	double wound
0056	ACEGJ	34	6F 1B / 6F 1B	BR 960 [11]	NND	50 V	Twin D.C. Neutral Line Relay	double wound
		35	1B / 1B		SU		Geographical Shorting Unit	

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
0057	ACEHJ	18	2F 2B / 2F 2B	BR 960 [11]	NN	24 V	Twin D.C. Neutral Line Relay	
		19	4F 4B / 4F 4B	BR 960 [11]	NN	24 V	Twin D.C. Neutral Line Relay	
0058	ACFGJ	19	4F 4B / 4F 4B		H1	50 V	Twin D.C. Neutral Line Relay	obsolete
		19	4F 4B / 4F 4B	(BR 960) [11]	NN1	50 V	Twin D.C. Neutral Line Relay	
0059	ACFHJ	20	6F 2B / 6F 2B		H1	50 V	Twin D.C. Neutral Line Relay	obsolete
		20	6F 2B / 6F 2B	(BR 960) [11]	NN1	50 V	Twin D.C. Neutral Line Relay	
0060	ACGHJ	32	2F 1B / 2F 1B	BR 960 [11]	NND	50 V	Twin D.C. Neutral Line Relay	double wound
		33	4F 3B / 4F 3B	BR 960 [11]	NND	50 V	Twin D.C. Neutral Line Relay	double wound
		36	3B / 3B		SU		Geographical Shorting Unit	
0061	ADEFJ	1	8F 4B	BR 934 [12]	SRA	24 V	A.C. Immune D.C. Neutral Line Relay Slow Release	
0062	ADEGJ	154	3F / 3F	BR 966 F10 [13]	EECF2	24 V	Twin D.C. Lamp Proving Relay	for LED Road Lights
0063	ADEHJ	1	8F 4B	BR 934 [12]	SRA	50 V	A.C. Immune D.C. Neutral Line Relay Slow Release	
		10	4B		SU		Geographical Shorting Unit	
0064	ADFGJ	7	6F 6B	(BR 934) [12]	SRA1	50 V	A.C. Immune D.C. Neutral Line Relay Slow Release	
0065	ADFHJ	37	4F		ECX3	1.0 A	Slow Release A.C. Lamp Proving Relay	for junction indicator
0066	ADGHJ	5	4F 4B		UCX	0.81 A	A.C. Lamp Proving Relay	for multi-lamp route indicator
0067	AEEGJ	38	2F 2B		UC	0.62 A	D.C. Lamp Proving Relay	for junction indicator
0068	AEFHJ	5	4F 4B		UCX	1.04 A	A.C. Lamp Proving Relay	
0069	AEGHJ	5	4F 4B		ECX	1.0 A	A.C. Lamp Proving Relay	
0070	AFGHJ	38	2F 2B	BR 942 [14]	UCX1	1.4 A	A.C. Lamp Proving Relay	for junction indicator
0071	ABCDK	37	4F	BR 941 [15]	ECX1	0.4 A	A.C. Lamp Proving Relay	
		42	4F 2B	(BR 941) [15]	ECX1	0.4 A	A.C. Lamp Proving Relay	(contact arrangement not covered by specification)
0072	ABCEK	25	4F 4B		EC	0.9 A	D.C. Lamp Proving Relay	
0073	ABCFK	26	8F 4B		EC	0.23 A	D.C. Lamp Proving Relay	for colour light signal
0074	ABCGK	24	1F 1B		JN	50 V	Neutral Relay & Thermal Timer (5-15s)	
0075	ABCHK	26	8F 4B			0.15 A	D.C. Lamp Proving Relay Slow Acting	rating might vary

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
0076	ABCJK	40	1NB / 1RB			110 V	Point Control Overload Relay	(obsolete)
0077	ABDEK	42	4F 2B		N3	0.25 A	D.C. Lamp Proving Relay	for stencil or junction indicator
0078	ABDFK	41			R2		Rectifier Unit	fourteen ratings
		41			R2	6 Ω +6 Ω	Rectifier-Resistance Unit	
		41			R2	7.8 Ω +7.8 Ω	Rectifier-Resistance Unit	
		41			R2	10 Ω +10 Ω	Rectifier-Resistance Unit	
		41			R2	14 Ω +14 Ω	Rectifier-Resistance Unit	
		41			R2	18 Ω +18 Ω	Rectifier-Resistance Unit	
		41			R2	22 Ω +22 Ω	Rectifier-Resistance Unit	
		41			R2	32 Ω +32 Ω	Rectifier-Resistance Unit	
		41			R2	51 Ω +51 Ω	Rectifier-Resistance Unit	
		41			R2	64 Ω +64 Ω	Rectifier-Resistance Unit	
		41			R2	81 Ω +81 Ω	Rectifier-Resistance Unit	
		41			R2	105 Ω + 105 Ω	Rectifier-Resistance Unit	
		41			R2	150 Ω + 150 Ω	Rectifier-Resistance Unit	
		41			R2	64 Ω +105 Ω	Rectifier-Resistance Unit	
0079	ABDGK	42	4F 2B		SR3	0.125 A	D.C. Lamp Proving Relay Slow Release	
0080	ABDHK	1	8F 4B			50 V	A.C. Immune D.C. Neutral Line Relay Slow Acting	very slow acting
		3	12F 4B			50 V	A.C. Immune D.C. Neutral Line Relay Slow Acting	very slow acting
0081	ABDJK	37	4F	BR 940 [16]	EC1	2.2 A	D.C. Lamp Proving Relay	for colour light signal
		42	4F 2B	BR 940 [16]	EC1	2.2 A	D.C. Lamp Proving Relay	for colour light signal
0082	ABEFK	42	4F 2B		SR3	0.105 A	D.C. Lamp Proving Relay Slow Release	
0083	ABEGK	5	4F 4B			24 V	A.C. Immune D.C. Neutral Line Relay Slow Acting	
		7	6F 6B			24 V	A.C. Immune D.C. Neutral Line Relay Slow Acting	
		9	8F 8B			24 V	A.C. Immune D.C. Neutral Line Relay Slow Acting	

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
0084	ABEHK	1	8F 4B			12 V	A.C. Immune D.C. Biased Neutral Line Relay	
0085	ABEJK	5	4F 4B		ECX	0.54 A & 0.46 A	A.C. Lamp Proving Relay	for stencil indicator or position light signal
0086	ABFGK	42	4F 2B		N3	0.125 A	D.C. Lamp Proving Relay	for stencil indicators
0087	ABFHK	42	4F 2B		SR3	1.1 A	D.C. Lamp Proving Relay Slow Release	for colour light signal
0088	ABFJK	42	4F 2B		SR3	0.11 A	D.C. Lamp Proving Relay Slow Release	
0089	ABGHK	42	4F 2B		N3	0.6 A	D.C. Lamp Proving Relay	
0090	ABGJK							not used
0091	ABHJK	37	4F	BR 945 [17]	ECF1*	4 A	D.C. Lamp Proving Relay	for flashing LC lights (* note the spec wrongly states NN)
0092	ACDEK	20	6F 2B / 6F 2B	BR 960 [11]	NN	24 V	Twin D.C. Neutral Line Relay	
0093	ACDFK	1	8F 4B		ECA	0.185 A	A.C. Immune D.C. Lamp Proving Relay Slow Acting	for SL35 lamp
0094	ACDGK	37	4F		ECX	0.185 A	A.C. Lamp Proving Relay	for searchlight signal
0095	ACDHK	19	4F 4B / 4F 4B			50 V	Twin D.C. Neutral Line Relay Slow Acting	
0096	ACDJK	20	6F 2B / 6F 2B			50 V	Twin D.C. Neutral Line Relay Slow Acting	
0097	ACEFK	18	2F 2B / 2F 2B	BR 961 [5]	BBA	24 V	Twin A.C. Immune D.C. Biased Neutral Line Relay	
		19	4F 4B / 4F 4B	BR 961 [5]	BBA	24 V	Twin A.C. Immune D.C. Biased Neutral Line Relay	
0098	ACEGK	20	6F 2B / 6F 2B	BR 961 [5]	BBA	24 V	Twin A.C. Immune D.C. Biased Neutral Line Relay	
0099	ACEHK	19	4F 4B / 4F 4B			24 V	Twin D.C. Neutral Line Relay Slow Acting	
0100	ACEJK	20	6F 2B / 6F 2B			24 V	Twin D.C. Neutral Line Relay Slow Acting	
0101	ACFGK	43	2F	BR 938 [18]	T	4 Ω	D.C. Neutral Track Relay	
		163	2F 2B	(BR 938) [18]	T2	4 Ω	D.C. Neutral Track Relay	
0102	ACFHK	74	4F 4B 2HF		NHXC1	110 V	A.C. Slow Release Contactor Relay	
0103	ACFJK							not used
0104	ACGHK	43	2F	BR 966 F9 [19]	TA2	60 Ω	A.C. Immune D.C. Neutral Track Relay	
0105	ACGJK	43	2F	BR 939 [20]	TA2	20 Ω	A.C. Immune D.C. Neutral Track Relay	
		163	2F 2B	(BR 939) [20]	TA2	20 Ω	A.C. Immune D.C. Neutral Track Relay	
0106	ACHJK	84				12/50 V	D.C./D.C. Converter Unit	

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
0107	ADEFK					50 V	Earth Fault Detector	
0108	ADEGK					120 V D.C.	Earth Fault Detector	
0109	ADEHK	43	2F		T	9 Ω	D.C. Neutral Track Relay	
0110	ADEJK	43	2F	BR 966 F2 [21]	TA2	9 Ω	A.C. Immune D.C. Neutral Track Relay	
		164	2F 1B	(BR 966 F2) [21]	TA2	9 Ω	A.C. Immune D.C. Neutral Track Relay	
		163	2F 2B	(BR 966 F2) [21]	TA2	9 Ω	A.C. Immune D.C. Neutral Track Relay	
0111	ADFGK	43	2F	BR 968 [22]	N3T	250 Ω	D.C. Neutral Track Relay	special for Aster tracks
0112	ADFHK	9	8F 8B	(BR 930) [2]	N1	12 V	D.C. Neutral Line Relay	this voltage not covered by the specification
0113	ADFJK	43	2F		T	400 Ω	D.C. Neutral Track Relay	
0114	ADGHK	43	2F		TA	400 Ω	A.C. Immune D.C. Neutral Track Relay	
0115	ADGJK	44	2F 2B			10 V	D.C. Neutral Thermal Timer (30-120s)	(obsolete)
0116	ADHJK	155	6F 6B		S2	12V	Low Power D.C. Neutral Line Relay	
0117	AEFGK	42	4F 2B		SR3	0.285 Ω	D.C. Neutral Line Relay Slow Release	arrangement to be confirmed (obsolete)
0118	AEFHK	45	2F 1B		JN	50 V	D.C. Neutral Line & Thermal Timer (15-30s)	
0119	AEFJK	257	3F 1B / 4F 4B		JNN	24 V	Twin Neutral Relay & Single Heater Thermal Timer (30-90s)	two time ranges
		257	3F 1B / 4F 4B		JNN	24 V	Twin Neutral Relay & Single Heater Thermal Timer (60-120s)	
0120	AEGHK	257	3F 1B / 4F 4B		JNN	50 V	Twin Neutral Relay & Single Heater Thermal Timer (30-90s)	three time ranges
		257	3F 1B / 4F 4B		JNN	50 V	Twin Neutral Relay & Single Heater Thermal Timer (60-120s)	
		257	3F 1B / 4F 4B		JNN	50 V	Twin Neutral Relay & Single Heater Thermal Timer (30-120s)	
0121	AEGJH	46	3F 1B / 4F 4B		JNN	50 V	Twin Neutral Relay & Double Heater Thermal Timer	(30-60s with both heaters & 60-150s with one heater)
0122	AEHJK	46	3F 1B / 4F 4B		JNN	50 V	Twin Neutral Relay & Double Heater Thermal Timer	(30-60s with both heaters & 60-150s with one heater)
0123	AFGHK	45	2F 1B	BR 937 [23]	J1	24 V	D.C. Neutral Thermal Timer (30-120s)	
0124	AFGJK	45	2F 1B	BR 937 [23]	J1	50 V	D.C. Neutral Thermal Timer (30-120s)	
0125	AFHJK	49	1F 1B	(BR 937) [23]	J	24 V	D.C. Neutral Thermal Timer (30-120s)	arrangement not covered by specification (obsolete)

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
0126	AGHJK	49	1F 1B	(BR 937) [23]	J	50 V	D.C. Neutral Thermal Timer (30-120s)	arrangement not covered by specification (obsolete)
0127	BCDEF	50	2F 1B / 6F 2B	BR 962 [24]	JS	24 V	Twin D.C. Neutral Line & Thermal Timer (30-120s)	
0128	BCDEG	51	2F 1B / 4F 4B	BR 962 [24]	JS	24 V	Twin D.C. Neutral Line & Thermal Timer (30-120s)	
0129	BCDFG	50	2F 1B / 6F 2B	BR 962 [24]	JS	50 V	Twin D.C. Neutral Line & Thermal Timer (30-120s)	
0130	BCEFG	51	2F 1B / 4F 4B	BR 962 [24]	JS	50 V	Twin D.C. Neutral Line & Thermal Timer (30-120s)	
0131	BDEFG	52				50 V	Pulse Generator	for use with TOWS (20 to 28 pulses per minute)
0132	BCDEH	53	1 c/o			24 V	Track Circuit Transient Suppressor Unit	(obsolete)
0133	BCDFH	54	6F 3B		T2R	8.8 V	D.C. Neutral Reed Follower Relay	pin codes 0133 & 0134 both allocated to the same relay
0134	BCDGH	54	6F 3B			8.8 V	D.C. Neutral Reed Follower Relay	pin codes 0133 & 0134 both allocated to the same relay
0135	BCEFH	263			JT1		A.C. Track Circuit Transient Suppressor Unit	absorbs negative traction spikes (& delays TR pick up)
0136	BCEGH					50 V	Pulse Generator	for impulse timers (1s, 2s, 3s, 4s interval pulses)
0137	BCFGH					50 V	Pulse Generator	for impulse timers (10s interval pulses) [uncertain]
0138		258	1 c/o / 1 c/o		BBJ1	50 V	Twin Block Bell Delay Unit (6-8s)	two versions
		259	1 c/o / 1 c/o		BBJ2	50 V	Twin Block Bell Delay Unit (6-8s)	
0139	BDEGH	55	1F 1B			50 V	D.C. Impulse Timer {5 Steps}	seven settings
		55	1F 1B			50 V	D.C. Impulse Timer {10 Steps}	
		55	1F 1B			50 V	D.C. Impulse Timer {15 Steps}	
		55	1F 1B			50 V	D.C. Impulse Timer {20 Steps}	
		55	1F 1B			50 V	D.C. Impulse Timer {22 Steps}	
		55	1F 1B			50 V	D.C. Impulse Timer {25 Steps}	
		55	1F 1B			50 V	D.C. Impulse Timer {30 steps}	
		56	1B			SU		

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
0140	BDFGH	57	1F 1B	BR 947 [25]	MT1	110 V	Slow Operate A.C. Motor Timer (3-30s)	
0141	BEFGH	252	4F 4B		J2	50 V	Slow Operate Electronic Timer (2-254s) and Neutral Relay	time delay configured by external strapping (obsolete)
		58			ET	50 V	Slow Operate Electronic Timer (2-254s)	never manufactured (see pin code 0199)
0142	BCDEJ	59				15.3 Ω	Lamp Proving Feed Unit	six ratings: - for junction or stencil RI
		60				27.8 Ω	Lamp Proving Feed Unit	- for limit of shunt signal
		61				36.9 Ω	Lamp Proving Feed Unit	- for position light signal
		62				50.5 Ω	Lamp Proving Feed Unit	-
		63				274 Ω	Lamp Proving Feed Unit	- for colour light signal
		64				W/O Ω	Lamp Proving Feed Unit	- for multi-lamp RI
0143	BCDFJ	65	1HF 1c/o / 1HF 1c/o		R3	50 V	D.C. Relay Unit containing two PO 3000 type relays	
0144	BCDGJ	66	2 c/o / 2 c/o / 2 c/o / 2 c/o		R15	50 V	D.C. Relay Unit containing four relays	one variant fitted with diodes across coils
0145	BCDHJ	67	3F / 3F / 3F / 3F		R15	50 V	D.C. Relay Unit containing four relays	
0146	BCEFJ	68	6F 2B		J2	50 V	Slow Operate Electronic Timer (2-254s) and Neutral Relay	time delay configured by external strapping (existence in doubt)
		254	6F 2B		J2	50 V	Slow Operate Electronic Timer (2-254s) and Neutral Relay	time delay configured by external strapping (obsolete)
0147	BCEGJ	66	2c/o / 2c/o / 2c/o / 2c/o			530 Ω	Relay Unit containing four PO type 23/9 relays	for CCTV equipment at level crossings
0148	BCEHJ	69			F	12/24 V 4 A	Indication Flasher Unit	for flashing level crossing indications
0149	BCFGJ	260				50/12 V	Hot Box Detector Reset Unit	
0150	BCFHJ	70				0.35 A	Lamp Proving Relay Feed Unit	
0151	BCGHJ	71	6F 2B		F	50 V	Pulse Generator Unit (70 pulses per minute)	for use in junction approach signal flashing circuit
0152	BDEFJ	26	8F 4B		EC	0.94 A	D.C. Lamp Proving Relay	for searchlight signals
0153	BDEGJ							not used
0154	BDEHJ	72			R14	18 Ω	Lamp Proving Relay Feed Unit	
0155	BDFGJ	72			R14	10 Ω	Lamp Proving Relay Feed Unit	

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks	
0156	BDFHJ	72		R14	7.8 Ω	Lamp Proving Relay Feed Unit		
0157	BDGHJ	72		R14	6 Ω	Lamp Proving Relay Feed Unit		
0158	BEFGJ	73			50 V	Hot Box Detector Reset Unit		
0159	BEFHJ	74	4F 4B 2HF	BR 966 F4 [26]	BCA	24 V	A.C. Immune D.C. Biased Point Contactor Relay	
0160	BEGHJ	74	4F 4B 2HF	BR 966 F4 [26]	BCA	50 V	A.C. Immune D.C. Biased Point Contactor Relay	
0161	BFGHJ	75	4F 4B 2HF		BCA	24 V	A.C. Immune D.C. Biased Point Contactor Relay	
0162	BCDEK	75	4F 4B 2HF		BC	24 V	D.C. Biased Point Contactor Relay	
0163	BCDFK	75	4F 4B 2HF		BCA	50 V	A.C. Immune D.C. Biased Point Contactor Relay	
0164	BCDGK	75	4F 4B 2HF		NC	50 V	D.C. Biased Point Contactor Relay	with high drop away
0165	BCDHK	75	4F 4B 2HF		NC	24 V	D.C. Biased Point Contactor Relay	with high drop away
0166	BCDJK	76	4B 2HF	BR 966 F1 [27]	NC1	50 V	D.C. Neutral Point Contactor Relay	with high drop away
0167	BCEFK	76	4B 2HF	BR 966 F1 [27]	NC1	24 V	D.C. Neutral Point Contactor Relay	with high drop away
0168	BCEGK	77			R5	24/50 V	Capacitor/Resistor Unit	
0169	BCEHK	78	2F 2B			80 V	Point Machine Snubbing Relay	with metal contacts
0170	BCEJK	76	4B 2HF	BR 943 [28]	BCA	24 V	A.C. Immune D.C. Biased Point Contactor Relay	
0171	BCFGK	76	4B 2HF		BCA	24 V	A.C. Immune D.C. Biased Point Contactor Relay	
0172	BCFHK	76	4B 2HF	BR 943 [28]	BCA	50 V	A.C. Immune D.C. Biased Point Contactor Relay	
0173	BCFJK	76	4B 2HF			50 V	A.C. Immune D.C. Biased Point Contactor Relay	
0174	BCGHK	79			FX	110 V	A.C. Electronic Flasher Unit	for panel indications (1 pulse per second)
0175	BCGJK	80			R5	50 V	Capacitor/Resistor Unit (2 000 μ F & 330 Ω)	for use within Westpac MkIV units
0176	BCHJK	80			R5	50 V	Capacitor/Resistor Unit (1 000 μ F & 330 Ω)	for use within Westpac MkIV units
0177	BDEFK	80			R5	50 V	Capacitor/Resistor Unit (470 μ F & 330 Ω)	for use within Westpac MkIV units
0178	BDEGK	81				50 V	Capacitor Unit (680 μ F)	for relay delay

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
0179	BDEHK	82	6F 2B		SRA4	50 V	D.C. Neutral Line Relay Slow Release	with extra slow release
0180	BDEJK	34	6F 1B / 6F 1B		NNMD2	50 V	Twin D.C. Neutral Line Relay (double wound)	with palladium contacts for low voltage/current
0181	BDFGK	83	2c/o / 2c/o / 2c/o / 2c/o			12 V	Opto Coupled Relay Unit	
0182	BDFHK	256	1F 2c/o / 1F 2c/o / 1F 2c/o / 2c/o		BORU	24 V	ERSE Buffer Output Relay Unit	for Electronic Route Setting Equipment (Mk 2)
0183	BDFJK	261	1F 1c/o / 1F 1c/o		EARU	24 V	ERSE Alarm Relay Unit	for Electronic Route Setting Equipment (Mk 2)
0184	BDGHK					24 V	Detector Storage Unit	for use with AOCR crossings
0185	BDGJK					24 V	Surge Protector (4 way)	for use with AOCR crossings
0186	BDHJK	84				24/50 V	D.C./D.C. Converter	for crossing treadle circuits
0187	BEFGK	84				24/50 V 15 W	D.C./D.C. Converter	
0188	BEFHK	85	4F 2B		NX1	0.4 A	Lamp Proving Relay	for shunt signal lamps
0189	BEFJK	86	2B / 1F 1B	BR 947 [25]	MT2	50 V D.C./ 110 V A.C.	Slow Operate Motor Timer (10-140s)	three time ranges time delay configured by external strapping
		86	2B / 1F 1B	BR 947 [25]	MT2	50 V D.C./ 110 V A.C.	Slow Operate Motor Timer (30-240s)	
		218	1F 1B		ET	50 V	Slow Operate Electronic Timer (2-254s)	
		87	3B		SU		Geographical Shorting Unit	
		88	1F 1B		SU		Geographical Shorting Unit	
0190	BEGHK	86	2B / 1F 1B	BR 947 [25]	MT2	24 V D.C./ 110 V A.C.	Slow Operate Motor Timer (30-240s)	time delay configured by external strapping
		218	1F 1B		ET	24 V	Slow Operate Electronic Timer (3-381s)	
0191	BEGJK	86	2B / 1F 1B	BR 947 [25]	MT2	50 V D.C./ 110 V A.C.	Slow Operate Motor Timer (2-50s)	
		87	3B		SU		Geographical Shorting Unit	
0192	BEHJK	86	2B / 1F 1B	BR 947 [25]	MT2	24 V D.C./ 110 V A.C.	Slow Operate Motor Timer (2-50s)	
0193	BFGHK	5	4F 4B	BR 932 [7]	BA2	50 V	A.C. Immune D.C. Biased Line Relay	
0194	BFGJK	18	2F 2B / 2F 2B	(BR 961) [5]	BBA2	50 V	Twin A.C. Immune D.C. Biased Line Relay	with special sensitivity
0195	BFHJK	84				12/50 V 15 W	D.C./D.C. Converter	
0196	BGHJK	89	2 c/o / 2 c/o / 2 c/o / 2 c/o		BORU	24 V	ERSE Buffer Output Relay Unit	for Electronic Route Setting Equipment (Mk 1)
0197	CDEFG	74	4F 4B 2HF	BR 966 F5 [29]	NC	24 V	D.C. Neutral Point Contactor Relay	for use with a.c./d.c. converter

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
0198	CDEFH	74	4F 4B 2HF	BR 966 F5 [29]	NC	50 V	D.C. Neutral Point Contactor Relay	for use with a.c./d.c. converter
0199	CDEGH	253	4F 2B		J2	50 V	Slow Operate Electronic Timer (2-254s) and Neutral Relay	four arrangements: - time delay configured by external strapping (obsolete)
		254	6F 2B		J2	50 V	Slow Operate Electronic Timer (2-254s) and Neutral Relay	- time delay configured by external strapping (obsolete)
		58			ET	50 V	Slow Operate Electronic Timer (2-254s)	- time delay configured by external strapping (obsolete)
		255			ET	50 V	Slow Operate Electronic Timer (2-254s)	- time delay configured by external strapping
0200	CDFGH	252	4F 4B		J2	50 V	Slow Operate Electronic Timer (2-254s) and Neutral Relay	time delay configured by external strapping (obsolete)
0201	CEFGH	90	2F 2B		S2	50 V	D.C. Neutral Relay	with special sensitivity
0202	CDEFJ	91	1F 1B		S1	50 V	D.C. Neutral Relay	with special sensitivity
0203	CDEGJ	47	2F			45 V	D.C. Neutral Relay with special sensitivity	for use as axle counter coincidence relay
0204	CDEHJ					40 V	D.C. Neutral Relay	with special sensitivity
0205	CDFGJ	1	8F 4B			24 V	A.C. Immune D.C. Neutral Line Relay Slow Release	with high drop away
0206	CDFHJ	1	8F 4B			50 V	A.C. Immune D.C. Neutral Line Relay Slow Release	with high drop away
0207	CDGHJ	3	12F 4B			50 V	D.C. Neutral Relay	with high drop away
0208	CEFGJ	9	8F 8B			50 V	D.C. Neutral Relay	with high drop away
0209	CEFHJ	20	6F 2B / 6F 2B	BR 966 F6 [30]	NNA	50 V	Twin A.C. Immune D.C. Neutral Line Relay	
0210	CEGHJ	18	2F 2B / 2F 2B	BR 966 F6 [30]	NNA	50 V	Twin A.C. Immune D.C. Neutral Line Relay	
		19	4F 4B / 4F 4B	BR 966 F6 [30]	NNA	50 V	Twin A.C. Immune D.C. Neutral Line Relay	
0211	CFGHJ	18	2F 2B / 2F 2B	BR 960 [11]	NN	50 V	Twin D.C. Neutral Line Relay	
		19	4F 4B / 4F 4B	BR 960 [11]	NN	50 V	Twin D.C. Neutral Line Relay	
		92	4B / 4B		SU		Geographical Shorting Unit	
0212	CDEFK	20	6F 2B / 6F 2B	BR 960 [11]	NN	50 V	Twin D.C. Neutral Line Relay	
		93	2B / 2B		SU		Geographical Shorting Unit	
0213	CDEGK	19	4F 4B / 4F 4B	BR 963 [31]	NNS	24 V	Twin D.C. Neutral Line Relay Slow Acting	
0214	CDEHK	20	6F 2B / 6F 2B	BR 963 [31]	NNS	24 V	Twin D.C. Neutral Line Relay Slow Acting	

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
0215	CDEJK	19	4F 4B / 4F 4B	BR 963 [31]	NNS	50 V	Twin D.C. Neutral Line Relay Slow Acting Geographical Shorting Unit	
		92	4B / 4B		SU			
0216	CDFGK	20	6F 2B / 6F 2B	BR 963 [31]	NNS	50 V	Twin D.C. Neutral Line Relay Slow Acting Geographical Shorting Unit	
		93	2B / 2B		SU			
0217	CDFHK	19	4F 4B / 4F 4B		NNH	24 V	Twin D.C. Neutral Line Relay	with high drop away (obsolete)
0218	CDFJK	20	6F 2B / 6F 2B		NNH	24 V	Twin D.C. Neutral Line Relay	with high drop away (obsolete)
0219	CDGHK	19	4F 4B / 4F 4B		NNH	50 V	Twin D.C. Neutral Line Relay	with high drop away (obsolete)
0220	CDGJK	20	6F 2B / 6F 2B		NNH	50 V	Twin D.C. Neutral Line Relay	with high drop away (obsolete)
0221	CDHJK	26	8F 4B			24 V	A.C. Immune D.C. Neutral Line Relay	with extra slow release
0222	CEFGK	26	8F 4B			50 V	A.C. Immune D.C. Neutral Line Relay	with extra slow release
0223	CEPHK	94	4F 2B / 4F 2B		LL1	24 V	Twin Magnetically Latched Timer	
0224	CEPHK	94	4F 2B / 4F 2B		LL1	50 V	Twin Magnetically Latched Timer	
0225	CEGJK	95	3F 1B			50/110 V	Synchronous Motor Operated Pulse Generator	for impulse timers (1 pulse per second)
0226	CEGJK	95	3F 1B			50/110 V	Synchronous Motor Operated Pulse Generator	for impulse timers (1 pulse per 2 seconds)
0227	CEHJK	95	3F 1B			50/110 V	Synchronous Motor Operated Pulse Generator	for impulse timers (1 pulse per 3 seconds)
0228	CFGJK	95	3F 1B			50/110 V	Synchronous Motor Operated Pulse Generator	for impulse timers (1 pulse per 6 seconds)
0229	CFGJK	84				12/50 V	D.C./D.C. Converter	(0-50 volt output)
0230	CFHJK	96				12/50 V	D.C./D.C. Converter	(25-0-25 volt output)
0231	CGHJK	97	8F		EC	0.23 A	Lamp Proving Relay Slow Release	
0232	DEFGH	98	1F 1B	BR 946 [32]	RJ	24 V	D.C. Neutral Timer (3s)	
0233	DEFGJ	98	1F 1B	BR 946 [32]	RJ	24 V	D.C. Neutral Timer (5s)	
0234	DEFHJ	98	1F 1B	BR 946 [32]	RJ	24 V	D.C. Neutral Timer (6s)	
0235	DEGHJ	98	1F 1B	BR 946 [32]	RJ	24 V	D.C. Neutral Timer (7.5s)	
0236	DFGHJ	98	1F 1B	BR 946 [32]	RJ	24 V	D.C. Neutral Timer (10s)	
0237	DEFGK	153	3F 1B	(BR 946) [32]	RJ	50 V	D.C. Neutral Timer (10s)	
0238	DEFHK	99				110 V A.C.	Earth Fault Detector	
0239	DEFJK	100				50/120 V	Earth Fault Detector	
0240	DEGJK	149				50/120 V	Earth Fault Detector	
0241	DEGJK	101				24 V	Bell Pulse Unit	for level crossing bells (60-70 pulses per minute)

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
						50 V	Point Timing Relay	(double allocated)
0242	DEHJK	102	3F 1c/o		F	24/50 V	Electronic Flasher Unit	for panel indications
		102	3F 1c/o		F	50 V	Electronic Flasher Unit	(60-70 pulses per minute)
0243	DFGHK	103	3c/o			120 V	Low Voltage Alarm Unit	for point operation
0244	DFGJK	104				50 V	FDM Transmitter (Style 25)	external strapping to select output levels and frequency
0245	DFHJK	105	2c/o			50 V	FDM Receiver (Style 25)	external strapping to select receiver sensitivity and output frequency
0246	DGHJK						FDM Line Matching Unit (Style 25)	multi-tap transformer unit connectable in many different configurations
0247	EFGHJ						Remote Control Interface Unit	
0248	EFGHK	103	3c/o			40-60 V	Low Voltage Alarm Unit	for 50 V batteries
0249	EFGJK					50 V	Relay	(no further details available)
0250	EFHJK	106			F	12-50 V	Electronic Flasher Unit	
0251	EGHJK	107	1c/o		J	24 V	Thermal Time Unit (30-120s)	
0252	FGHJK	107	1c/o		J	50 V	Thermal Time Unit (30-120s)	
0253	ABCDL		2F 2B		EC	7.2 V	D.C. Lamp Proving Relay	(allocated by General Railway Signal [GRS])
		137				110/24 V	A.C./D.C. Converter Unit	(allocated by Siemens-General Electric [SGE])
0254	ABCEL	24	1F 1B		JN	50 V	D.C. Neutral Relay and Thermal Timer (30-120s)	(allocated by GRS)
		137				110/50 V	A.C./D.C. Converter Unit	(allocated by SGE)
0255	ABCFL	24	1F 1B		JN	50 V	D.C. Neutral Relay and Thermal Timer (60-180s)	(allocated by GRS)
		15	12N 4R		PS	12 V	D.C. Polarized Magnetic Stick Line Relay	(allocated by SGE)
0256	ABCGL					110/24 V	A.C./D.C. Converter Unit	for 24 V relays (allocated by SGE)
		25	4F 4B		UC	0.84 A	D.C. Lamp Proving Relay	for junction indicator (allocated by GRS)
0257	ABCHL	26	8F 4B		EC	0.23 A	D.C. Lamp Proving Relay	for SL35 signal lamps (allocated by GRS)
0258	ABCJL	25	4F 4B		UC	0.42 A	D.C. Lamp Proving Relay	for stencil RI (allocated by GRS)
		59				15.3 Ω	Lamp Proving Feed Unit	six ratings allocated by SGE: - for junction or stencil RI
		60				27.8 Ω	Lamp Proving Feed Unit	- for limit of shunt signal

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
		61				36.9 Ω	Lamp Proving Feed Unit	- for position light signal
		62				50.5 Ω	Lamp Proving Feed Unit	-
		63				274 Ω	Lamp Proving Feed Unit	- for colour light signal
		64				no resistor	Lamp Proving Feed Unit	- for multi-lamp RI
0259	ABCKL	40	1NB / 1RB			110 V	Point Control Overload Unit	(allocated by SGE) obsolete
		24	1F 1B		JN	50 V	Neutral Relay & Thermal Timer (5-15s)	(allocated by GRS)
0260	ABDEL	24	1F 1B		JN	50 V	Neutral Relay & Thermal Timer (15-30s) Capacitor Unit	(allocated by GRS) for relay delay (allocated by SGE)
0261	ABDFL	9	8F 8B		N	110 V	D.C. Neutral Line Relay	(allocated by GRS)
		1	8F 4B	BR 934 [12]	SRA	24 V	A.C. Immune D.C. Neutral Line Relay Slow Release	two arrangements allocated by SGE
		3	12F 4B	BR 934 [12]	SRA	24 V	A.C. Immune D.C. Neutral Line Relay Slow Release	
0262	ABDGL	5	4F 4B		SA	24 V	A.C. Immune D.C. Neutral Line Relay Slow Acting	three arrangements allocated by SGE
		7	6F 6B		SA	24 V	A.C. Immune D.C. Neutral Line Relay Slow Acting	
		9	8F 8B		SA	24 V	A.C. Immune D.C. Neutral Line Relay Slow Acting	
			2F 2B		JN	24 V	Neutral Relay & Thermal Timer (30-120s)	(allocated by GRS)
0263	ABDHL		6F 2B		EC	18.5 V	D.C. Lamp Proving Relay	(allocated by GRS)
		1	8F 4B		SA	50 V	A.C. Immune D.C. Neutral Line Relay Slow Acting	two arrangements allocated by SGE
		3	12F 4B		SA	50 V	A.C. Immune D.C. Neutral Line Relay Slow Acting	
0264	ABDJL	5	4F 4B		SA	50 V	A.C. Immune D.C. Neutral Line Relay Slow Acting	three arrangements allocated by SGE
		7	6F 6B		SA	50 V	A.C. Immune D.C. Neutral Line Relay Slow Acting	
		9	8F 8B		SA	50 V	A.C. Immune D.C. Neutral Line Relay Slow Acting	
			2F 2B		JN	12 V	Neutral Relay & Thermal Timer (30-120s)	(allocated by GRS)

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
0265	ABDKL					110/24 V	A.C./D.C. Converter Unit	(allocated by GRS)
0266	ABEFL		4F 4B		EC	0.2 A	D.C. Lamp Proving Relay	for 20 watt lamps (allocated by GRS)
		5	4F 4B		N	12 V	D.C. Neutral Line Relay	two arrangements allocated by SGE
		9	8F 8B		N	12 V	D.C. Neutral Line Relay	
0267	ABEGL						not used	
0268	ABEHL	1	8F 4B		SRA	24 V	A.C. Immune D.C. Neutral Line Relay Slow Release	(allocated by GRS)
0269	ABEJL	26	8F 4B		EC	0.84 A	D.C. Lamp Proving Relay	for searchlight signal (allocated by GRS)
		108	2F 2B		N7	12 V	Shunt Relay	for Post Office Railway (allocated by SGE)
0270	ABEKL		14F 2B		N	24 V	D.C. Neutral Line Relay	(allocated by SGE)
			4F 4B		N	60 V	D.C. Neutral Line Relay	(allocated by GRS)
0271	ABFGL	5	4F 4B		SR	8.8 V	Reed Follower Relay	(allocated by SGE)
		4	12F 4B			24 V	D.C. Neutral Line Relay Slow Release	(allocated by GRS)
0272	ABFHL						not used	
0273	ABFJL						not used	
0274	ABFKL		2F 1B		SR	24 V	D.C. Neutral Line Relay Slow Release	(allocated by GRS)
0275	ABGHL		2F 2B		JN	24 V	Neutral Relay & Thermal Timer (30-120s)	(allocated by GRS)
0276	ABGJL						not used	
0277	ABGKL						not used	
0278	ABHJL						not used	
0279	ABHKL		2F 2B		JN	12 V	Neutral Relay & Thermal Timer (30-120s)	(allocated by GRS)
		1	8F 4B		BA	12 V	A.C. Immune D.C. Neutral Biased Line Relay	obsolete (allocated by SGE)
		1	8F 4B		N1	12 V	D.C. Neutral Line Relay	(triple allocated)
0280	ABJKL	109	2F 2B		TB	9 or 2.25 Ω	Biased Track Relay	(allocated by SGE) two coils in series (9 Ω) or in parallel (2.25 Ω)
			2F 2B		N	12 V	D.C. Neutral Line Relay	(allocated by GRS)
0281	ACDEL	43	2F		BT	4 Ω	Biased Track Relay	
0282	ACDFL	43	2F		BT	9 Ω	Biased Track Relay	
0283	ACDGL	43	2F		BAT	9 Ω	A.C. Immune Biased Track Relay	
0284	ACDHL						not used	
0285	ACDJL						not used	
0286	ACDKL	37	4F	BR 948 [33]	ECX21	0.20 A	Slow Release A.C. Lamp Proving Relay	for use in connection with TPWS (double allocated)

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
			8F 4B			2.4 Ω	Pick-up Track Relay	(allocated by SGE) for Post Office Railway
0287	ACEFL	43	2F		T	9 Ω	D.C. Neutral Track Relay	
0288	ACEGL	43	2F		TA	9 Ω	A.C. Immune D.C. Neutral Track Relay	
0289	ACEHL		4F 4B / 4F 4B		NNM	24 V 120 V	Twin D.C. Neutral Line Relay Earth Fault Detector	(allocated by SGE) with metal contacts (double allocated)
0290	ACEJL	19	4F 4B / 4F 4B		NN	24 V	Twin D.C. Neutral Line Relay	
0291	ACEKL	20	6F 2B / 6F 2B		NN1	24 V	Twin D.C. Neutral Line Relay	for Post Office Railway
0292	ACFGL	19	4F 4B / 4F 4B		NN	50 V	Twin D.C. Neutral Line Relay	
0293	ACFHL	20	6F 2B / 6F 2B		NN	50 V	Twin D.C. Neutral Line Relay	
0294	ACFJL	33	4F 3B / 4F 3B		NN	24 V	Twin D.C. Neutral Line Relay	
0295	ACFKL	34	6F 1B / 6F 1B		NN	24 V	Twin D.C. Neutral Line Relay	
0296	ACGHL	33	4F 3B / 4F 3B	BR 960 [11]	NN	50 V	Twin D.C. Neutral Line Relay	
0297	ACGJL	34	6F 1B / 6F 1B		NN	50 V	Twin D.C. Neutral Line Relay	
0298	ACGKL	19	4F 4B / 4F 4B		NNS	24 V	Twin D.C. Neutral Line Relay Slow Acting	
0299	ACHJL	20	6F 2B / 6F 2B		NNS	24 V	Twin D.C. Neutral Line Relay Slow Acting	
0300	ACHKL	19	4F 4B / 4F 4B		NNS	50 V	Twin D.C. Neutral Line Relay Slow Acting	
0301	ACJKL	20	6F 2B / 6F 2B		NNS	50 V	Twin D.C. Neutral Line Relay Slow Acting	
0302	ADEFL		2F 2B		F	50 V	Flasher Relay	
0303	ADEGL		2F 2B		F F	50 V 50 V	Flasher Relay Impulse Timer (30 Steps)	double allocated (uncertain)
0304	ADEHL							not used
0305	ADEJL							not used
0306	ADEKL							not used
0307	ADFGl		8F 4B	(BR 930) [2]	ND	30 V	D.C. Neutral Double Wound Relay	this voltage not covered by the specification
0308	ADFHL		4F 2B		ECX		A.C. Lamp Proving Relay	
0309	ADFJL							not used
0310	ADFKL							not used
0311	ADGHL							not used
0312	ADGJL	55	1F 1B			50 V	Impulse Timer (5 Steps)	seven settings
		55	1F 1B			50 V	Impulse Timer (10 Steps)	
		55	1F 1B			50 V	Impulse Timer (15 Steps)	
		55	1F 1B			50 V	Impulse Timer (20 Steps)	

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
		55	1F 1B			50 V	Impulse Timer (22 Steps)	
		55	1F 1B			50 V	Impulse Timer (25 Steps)	
		55	1F 1B			50 V	Impulse Timer (30 Steps)	
0313	ADGKL							not used
0314	ADHJL							not used
0315	ADHKL		4F 2B		ECX		A.C. Lamp Proving Relay	
0316	ADJKL							not used
0317	AEFGL							not used
0318	AEFHL		4F		ECX		A.C. Lamp Proving Relay	
0319	AEFJL							not used
0320	AEFKL							not used
0321	AEGHL							not used
0322	AEGJL	46	3F 1B / 4F 4B		JNN	24 V	Twin D.C. Neutral Relay & Double Heater Thermal Timer	(30-60s with both heaters & 60-150s with one heater)
0323	AEGKL	46	3F 1B / 4F 4B		JNN	50 V	Twin D.C. Neutral Relay & Double Heater Thermal Timer	(30-60s with both heaters & 60-150s with one heater)
0324	AEHJL	46	3F 1B / 4F 4B		JNN	50 V	Twin D.C. Neutral Relay (LH Slow Acting) & Double Heater Thermal Timer	(30-60s with both heaters & 60-150s with one heater)
0325	AEHKL							not used
0326	AEJKL							not used
0327	AFGHL							not used
0328	AFGJL							not used
0329	AFGKL							not used
0330	AFHJL							not used
0331	AFHKL							not used
0332	AFJKL							not used
0333	AGHJL							not used
0334	AGHKL							not used
0335	AGJKL						UT1011	(no further details available)
0336	AHJKL	19	4F 4B / 4F 4B		BBA	24 V	Twin A.C. Immune D.C. Biased Neutral Line Relay	
0337	ABCDM	20	6F 2B / 6F 2B		BBA	24 V	Twin A.C. Immune D.C. Biased Neutral Line Relay	
0338	ABCEM	19	4F 4B / 4F 4B		BBA	50 V	Twin A.C. Immune D.C. Biased Neutral Line Relay	
0339	ABCFM	20	6F 2B / 6F 2B		BBA	50 V	Twin A.C. Immune D.C. Biased Neutral Line Relay	
0340	ABCGM	5	4F 4B		EC	0.1 A	Lamp Proving Relay	
0341	ABCHM	26	8F 4B		EC	0.15 A	D.C. Lamp Proving Relay Slow Acting	

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
0342	ABCJM		8F 4B		NM	12 V	D.C. Neutral Line Relay	with metal contacts
0343	ABCKM	156		(BR 991) [34]	FX	110 V	Flashing Aspect Control Unit	plug-in equivalent of BR 991
0344	ABCLM							not used
0345	ABDEM							not used
0346	ABDFM							not used
0347	ABDGM							not used
0348	ABDHM							not used
0349	ABDJM							not used
0350	ABDKM							not used
0351	ABDLM							not used
0352	ABEFM							not used
0353	ABEGM							not used
0354	ABEHM							not used
0355	ABEJM							not used
0356	ABEKM							not used
0357	ABELM							not used
0358	ABFGM	26	8F 4B		SRA	24 V	A.C. Immune D.C. Neutral Line Relay	with extra slow release
0359	ABFHM	26	8F 4B		SRA	50 V	A.C. Immune D.C. Neutral Line Relay	with extra slow release
0360	ABFJM	1	8F 4B	(BR 934) [12]	SRA1	12 V	A.C. Immune D.C. Neutral Line Relay	with extra slow release
0361	ABFKM							not used
0362	ABFLM							not used
0363	ABGHM							not used
0364	ABGJM							not used
0365	ABGKM							not used
0366	ABGLM							not used
0367	ABHJM							not used
0368	ABHKM							not used
0369	ABHLM							not used
0370	ABJKM							not used
0371	ABJLM							not used
0372	ABKLM		2F 2B		ECX		A.C. Lamp Proving Relay	
0373	ACDEM	26	8F 4B	(BR 933) [10]	SPA	50 V	A.C. Immune D.C. Neutral Line Relay Slow Pick Up	
0374	ACDFM							not used
0375	ACDGM		2F 2B		ECX		A.C. Lamp Proving Relay	
0376	ACDHM		4F	(BR 941) [15]	ECX	0.25 A	A.C. Lamp Proving Relay	
0377	ACDJM							not used
0378	ACDKM							not used
0379	ACDLM							not used
0380	ACEFM							not used
0381	ACEGM							not used
0382	ACEHM							not used
0383	ACEJM							not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
0384	ACEKM							not used
0385	ACELM	110	1F 3B	(BR 949) [36]	CJ1	50 V	Slow Operate Electronic Timer (6-9s)	(for non-vital use)
0386	ACFGM							not used
0387	ACFHM							not used
0388	ACFJM							not used
0389	ACFKM							not used
0390	ACFLM							not used
0391	ACGHM	111			RT5110	12 V 50 Hz	Transmitter Reed Track Circuit Filter Channel 211	
0392	ACGJM	112			RT6110	12 V 50 Hz	Receiver Reed Track Circuit Filter Channel 211	
0393	ACGKM	111			RT5120	12 V 50 Hz	Transmitter Reed Track Circuit Filter Channel 212	
0394	ACGLM	112			RT6120	12 V 50 Hz	Receiver Reed Track Circuit Filter Channel 212	
0395	ACHJM	111			RT5130	12 V 50 Hz	Transmitter Reed Track Circuit Filter Channel 213	
0396	ACHKM	112			RT6130	12 V 50 Hz	Receiver Reed Track Circuit Filter Channel 213	
0397	ACHLM	111			RT5140	12 V 50 Hz	Transmitter Reed Track Circuit Filter Channel 214	
0398	ACJKM	112			RT6140	12 V 50 Hz	Receiver Reed Track Circuit Filter Channel 214	
0399	ACJLM	111			RT5150	12 V 50/60 Hz	Transmitter Reed Track Circuit Filter Channel 215	
0400	ACKLM	112			RT6150	12 V 50/60 Hz	Receiver Reed Track Circuit Filter Channel 215	
0401	ADEFM	111			RT5160	12 V 50/60 Hz	Transmitter Reed Track Circuit Filter Channel 216	
0402	ADEGM	112			RT6160	12 V 50/60 Hz	Receiver Reed Track Circuit Filter Channel 216	
0403	ADEHM	111			RT5170	12 V 50/60 Hz	Transmitter Reed Track Circuit Filter Channel 217	
0404	ADEJM	112			RT6170	12 V 50/60 Hz	Receiver Reed Track Circuit Filter Channel 217	
0405	ADEKM	111			RT5180	12 V 50/60 Hz	Transmitter Reed Track Circuit Filter Channel 218	
0406	ADELM	112			RT6180	12 V 50/60 Hz	Receiver Reed Track Circuit Filter Channel 218	

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
0407	ADFGM	111		RT5190	12 V 50 Hz	Transmitter Reed Track Circuit Filter Channel 219	
0408	ADFHM	112		RT6190	12 V 50 Hz	Receiver Reed Track Circuit Filter Channel 219	
0409	ADFJM	111		RT5200	12 V 50 Hz	Transmitter Reed Track Circuit Filter Channel 220	
0410	ADFKM	112		RT6200	12 V 50 Hz	Receiver Reed Track Circuit Filter Channel 220	
0411	ADFLM	111		RT5210	12 V 50 Hz	Transmitter Reed Track Circuit Filter Channel 221	
0412	ADGHM	112		RT6210	12 V 50 Hz	Receiver Reed Track Circuit Filter Channel 221	
0413	ADGJM						not used
0414	ADGKM	112		RT6220	12 V 50 Hz	Receiver Reed Track Circuit Filter	for automatic train protection
0415	ADGLM						not used
0416	ADHJM						not used
0417	ADHKM						not used
0418	ADHLM						not used
0419	ADJKM						not used
0420	ADJLM						not used
0421	ADKLM	111		RT5260	12 V 50 Hz	Transmitter Reed Track Circuit Filter	for train control systems
0422	AEFGM	112		RT6260	12 V 50 Hz	Receiver Reed Track Circuit Filter	for train control systems
0423	AEFHM						not used
0424	AEFJM						not used
0425	AEFKM	111		RT5280	12 V 60 Hz	Transmitter Reed Track Circuit Filter Code X	
0426	AEFLM	112		RT6280	12 V 60 Hz	Receiver Reed Track Circuit Filter Code X	
0427	AEGHM	111		RT5290	12 V 60 Hz	Transmitter Reed Track Circuit Filter Code C	
0428	AEGJM	112		RT6290	12 V 60 Hz	Receiver Reed Track Circuit Filter Code C	
0429	AEGKM	111		RT5300	12 V 60 Hz	Transmitter Reed Track Circuit Filter Code B	
0430	AEGLM	112		RT6300	12 V 60 Hz	Receiver Reed Track Circuit Filter Code B	
0431	AEHJM	111		RT5310	12 V 60 Hz	Transmitter Reed Track Circuit Filter Code A	
0432	AEHKM	112		RT6310	12 V 60 Hz	Receiver Reed Track Circuit Filter Code A	
0433	AEHLM						not used
0434	AEJKM						not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
0435	AEJLM	111			RT5320	12 V 60 Hz	Transmitter Reed Track Circuit Filter Code D	
0436	AEKLM	112			RT6320	12 V 60 Hz	Receiver Reed Track Circuit Filter Code D	
0437	AFGHM							not used
0438	AFGJM							not used
0439	AFGKM							not used
0440	AFGLM							not used
0441	AFHJM							not used
0442	AFHKM							not used
0443	AFHLM							not used
0444	AFJKM							not used
0445	AFJLM							not used
0446	AFKLM							not used
0447	AGHJM							not used
0448	AGHKM							not used
0449	AGHLM							not used
0450	AGJKM							not used
0451	AGJLM							not used
0452	AGKLM							not used
0453	AHJKM							not used
0454	AHJLM							not used
0455	AHKLM							not used
0456	AJKLM							not used
0457	ABCDN							not used
0458	ABCEN	54	6F 3B			8.8 V	Reed Follower Relay	
0459	ABCFN							not used
0460	ABCGN							not used
0461	ABCHN							not used
0462	ABCJN							not used
0463	ABCKN							not used
0464	ABCLN							not used
0465	ABCMN							not used
0466	ABDEN							not used
0467	ABDFN							not used
0468	ABDGN							not used
0469	ABDHN							not used
0470	ABDJN							not used
0471	ABDKN							not used
0472	ABDLN							not used
0473	ABDMN							not used
0474	ABEFN							not used
0475	ABEGN							not used
0476	ABEHN							not used
0477	ABEJN							not used
0478	ABEKN							not used
0479	ABELN							not used
0480	ABEMN							not used
0481	ABFGN							not used
0482	ABFHN							not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
0483	ABFJN						not used
0484	ABFKN						not used
0485	ABFLN						not used
0486	ABFMN						not used
0487	ABGHN						not used
0488	ABGJN						not used
0489	ABGKN						not used
0490	ABGLN						not used
0491	ABGMN						not used
0492	ABHJN						not used
0493	ABHKN						not used
0494	ABHLN						not used
0495	ABHMN						not used
0496	ABJKN						not used
0497	ABJLN						not used
0498	ABJMN						not used
0499	ABKLN						not used
0500	ABKMN						not used
0501	ABLMN						not used
0502	ACDEN						not used
0503	ACDFN						not used
0504	ACDGN						not used
0505	ACDHN						not used
0506	ACDJN						not used
0507	ACDKN						not used
0508	ACDLN						not used
0509	ACDMN						not used
0510	ACEFN						not used
0511	ACEGN						not used
0512	ACEHN						not used
0513	ACEJN						not used
0514	ACEKN						not used
0515	ACELN						not used
0516	ACEMN						not used
0517	ACFGN						not used
0518	ACFHN						not used
0519	ACFJN						not used
0520	ACFKN						not used
0521	ACFLN						not used
0522	ACFMN						not used
0523	ACGHN						not used
0524	ACGJN						not used
0525	ACGKN						not used
0526	ACGLN						not used
0527	ACGMN	113 or 114		RR4210	12 V	Transmitter Reed Filter	
0528	ACHJN	112, 115 or 116		RR7210	12 V	Receiver Reed Filter	

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
0529	ACHKN	113 or 114		RR4220	12 V	Transmitter Reed Filter	
0530	ACHLN	112, 115 or 116		RR7220	12 V	Receiver Reed Filter	
0531	ACHMN	113 or 114		RR4230	12 V	Transmitter Reed Filter	
0532	ACJKN	112, 115 or 116		RR7230	12 V	Receiver Reed Filter	
0533	ACJLN	113 or 114		RR4240	12 V	Transmitter Reed Filter	
0534	ACJMN	112, 115 or 116		RR7240	12 V	Receiver Reed Filter	
0535	ACKLN	113 or 114		RR4250	12 V	Transmitter Reed Filter	
0536	ACKMN	112, 115 or 116		RR7250	12 V	Receiver Reed Filter	
0537	ACLMN	113 or 114		RR4260	12 V	Transmitter Reed Filter	
0538	ADEFN	112, 115 or 116		RR7260	12 V	Receiver Reed Filter	
0539	ADEGN	113 or 114		RR4270	12 V	Transmitter Reed Filter	
0540	ADEHN	112, 115 or 116		RR7270	12 V	Receiver Reed Filter	
0541	ADEJN	113 or 114		RR4280	12 V	Transmitter Reed Filter	
0542	ADEKN	112, 115 or 116		RR7280	12 V	Receiver Reed Filter	
0543	ADELN	113 or 114		RR4290	12 V	Transmitter Reed Filter	
0544	ADEM N	112, 115 or 116		RR7290	12 V	Receiver Reed Filter	
0545	ADFGN	113 or 114		RR4300	12 V	Transmitter Reed Filter	

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
0546	ADFHN	112, 115 or 116			RR7300	12 V	Receiver Reed Filter	
0547	ADFJN	113 or 114			RR4310	12 V	Transmitter Reed Filter	
0548	ADFKN	112, 115 or 116			RR7310	12 V	Receiver Reed Filter	
0549	ADFLN	113 or 114			RR4320	12 V	Transmitter Reed Filter	
0550	ADFMN	112, 115 or 116			RR7320	12 V	Receiver Reed Filter	
0551	ADGHN	113 or 114			RR4330	12 V	Transmitter Reed Filter	
0552	ADGJN	112, 115 or 116			RR7330	12 V	Receiver Reed Filter	
0553	ADGKN	113 or 114			RR4340	12 V	Transmitter Reed Filter	
0554	ADGLN	112, 115 or 116			RR7340	12 V	Receiver Reed Filter	
0555	ADGMN							not used
0556	ADHJN							not used
0557	ADHKN							not used
0558	ADHLN							not used
0559	ADHMN							not used
0560	ADJKN							not used
0561	ADJLN							not used
0562	ADJMN							not used
0563	ADKLN							not used
0564	ADKMN							not used
0565	ADLMN							not used
0566	AEFGN	117				24 V	Fuse Failure Detector	
0567	AEFHN	38	2F 2B		UC	0.8 A	Lamp Proving Relay	for fibre optic route indicator
0568	AEFJN	118				24 V	Resistor/Capacitor Unit	for use at level crossings
0569	AEFKN	42	4F 2B		ECX11	0.46 A	Slow Release A.C. Lamp Proving Relay	for fibre optic lamps
0570	AEFLN	19	4F 4B / 4F 4B		SA	24 V	A.C. Immune D.C. Slow Acting Neutral Line Relay	
0571	AEFMN	20	6F 2B / 6F 2B		SA	24 V	A.C. Immune D.C. Slow Acting Neutral Line Relay	

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
0572	AEGHN	19	4F 4B / 4F 4B		SA	50 V	A.C. Immune D.C. Slow Acting Neutral Line Relay	
0573	AEGJN	20	6F 2B / 6F 2B		SA	50 V	A.C. Immune D.C. Slow Acting Neutral Line Relay	
0574	AEGKN							not used
0575	AEGLN							not used
0576	AEGMN							not used
0577	AEHJN							not used
0578	AEHKN							not used
0579	AEHLN							not used
0580	AEHMN							not used
0581	AEJKN							not used
0582	AEJLN							not used
0583	AEJMN							not used
0584	AEKLN							not used
0585	AEKMN							not used
0586	AELMN							not used
0587	AFGHN							not used
0588	AFGJN							not used
0589	AFGKN							not used
0590	AFGLN							not used
0591	AFGMN							not used
0592	AFHJN							not used
0593	AFHKN							not used
0594	AFHLN							not used
0595	AFHMN							not used
0596	AFJKN							not used
0597	AFJLN							not used
0598	AFJMN							not used
0599	AFKLN							not used
0600	AFKMN							not used
0601	AFLMN							not used
0602	AGHJN							not used
0603	AGHKN							not used
0604	AGHLN							not used
0605	AGHMN							not used
0606	AGJKN							not used
0607	AGJLN							not used
0608	AGJMN							not used
0609	AGKLN							not used
0610	AGKMN							not used
0611	AGLMN							not used
0612	AHJKN							not used
0613	AHJLN							not used
0614	AHJMN							not used
0615	AHKLN							not used
0616	AHKMN							not used
0617	AHLMN							not used
0618	AJKLN							not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
0619	AJKMN						not used
0620	AJLMN						not used
0621	AKLMN						not used
0622	BCDEL						not used
0623	BCDFL						not used
0624	BCDGL						not used
0625	BCDHL						not used
0626	BCDJL						not used
0627	BCDKL						not used
0628	BCEFL						not used
0629	BCEGL						not used
0630	BCEHL						not used
0631	BCEJL						not used
0632	BCEKL						not used
0633	BCFGL						not used
0634	BCFHL						not used
0635	BCFJL						not used
0636	BCFKL						not used
0637	BCGHL						not used
0638	BCGJL						not used
0639	BCGKL						not used
0640	BCHJL						not used
0641	BCHKL						not used
0642	BCJKL						not used
0643	BDEFL						not used
0644	BDEGL						not used
0645	BDEHL						not used
0646	BDEJL						not used
0647	BDEKL						not used
0648	BDFGL						not used
0649	BDFHL						not used
0650	BDFJL						not used
0651	BDFKL						not used
0652	BDGHL						not used
0653	BDGJL						not used
0654	BDGKL						not used
0655	BDHJL						not used
0656	BDHKL						not used
0657	BDJKL						not used
0658	BEFGL						not used
0659	BEFHL						not used
0660	BEFJL						not used
0661	BEFKL						not used
0662	BEGHL						not used
0663	BEGJL						not used
0664	BEGKL						not used
0665	BEHJL						not used
0666	BEHKL						not used
0667	BEJKL						not used
0668	BFGHL						not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
0669	BFGJL						not used
0670	BFGKL						not used
0671	BFHJL						not used
0672	BFHKL						not used
0673	BFJKL						not used
0674	BGHJL						not used
0675	BGHKL						not used
0676	BGJKL						not used
0677	BHJKL						not used
0678	BCDEM						not used
0679	BCDFM						not used
0680	BCDGM						not used
0681	BCDHM						not used
0682	BCDJM						not used
0683	BCDKM						not used
0684	BCDLM						not used
0685	BCEFM						not used
0686	BCEGM						not used
0687	BCEHM						not used
0688	BCEJM						not used
0689	BCEKM						not used
0690	BCEJM						not used
0691	BCFGM						not used
0692	BCFHM						not used
0693	BCFJM						not used
0694	BCFKM						not used
0695	BCFLM						not used
0696	BCGHM						not used
0697	BCGJM						not used
0698	BCGKM						not used
0699	BCGLM						not used
0700	BCHJM						not used
0701	BCHKM						not used
0702	BCHLM						not used
0703	BCJKM						not used
0704	BCJLM						not used
0705	BCKLM						not used
0706	BDEFM						not used
0707	BDEGM						not used
0708	BDEHM						not used
0709	BDEJM						not used
0710	BDEKM						not used
0711	BDELM						not used
0712	BDFGM						not used
0713	BDFHM						not used
0714	BDFJM						not used
0715	BDFKM						not used
0716	BDFLM						not used
0717	BDGHM						not used
0718	BDGJM						not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
0719	BDGKM						not used
0720	BDGLM						not used
0721	BDHJM						not used
0722	BDHKM						not used
0723	BDHLM						not used
0724	BDJKM						not used
0725	BDJLM						not used
0726	BDKLM						not used
0727	BEFGM						not used
0728	BEFHM						not used
0729	BEFJM						not used
0730	BEFKM						not used
0731	BEFLM						not used
0732	BEGHM						not used
0733	BEGJM						not used
0734	BEGKM						not used
0735	B EGLM						not used
0736	BEHJM						not used
0737	BEHKM						not used
0738	BEHLM						not used
0739	BEJKM						not used
0740	BEJLM						not used
0741	BEKLM						not used
0742	BFGHM						not used
0743	BFGJM						not used
0744	BFGKM						not used
0745	BFGLM						not used
0746	BFHJM						not used
0747	BFHKM						not used
0748	BFHLM						not used
0749	BFJKM						not used
0750	BFJLM						not used
0751	BFKLM						not used
0752	BGHJM						not used
0753	BGHKM						not used
0754	BGHLM						not used
0755	BGJKM						not used
0756	BGJLM						not used
0757	BGKLM						not used
0758	BHJKM						not used
0759	BHJLM						not used
0760	BHKLM						not used
0761	BJKLM						not used
0762	BCDEN						not used
0763	BCDFN						not used
0764	BCDGN						not used
0765	BCDHN						not used
0766	BCDJN						not used
0767	BCDKN						not used
0768	BCDLN						not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
0769	BCDMN						not used
0770	BCEFN						not used
0771	BCEGN						not used
0772	BCEHN						not used
0773	BCEJN						not used
0774	BCEKN						not used
0775	BCELN						not used
0776	BCEMN						not used
0777	BCFGN						not used
0778	BCFHN						not used
0779	BCFJN						not used
0780	BCFKN						not used
0781	BCFLN						not used
0782	BCFMN						not used
0783	BCGHN						not used
0784	BCGJN						not used
0785	BCGKN						not used
0786	BCGLN						not used
0787	BCGMN						not used
0788	BCHJN						not used
0789	BCHKN						not used
0790	BCHLN						not used
0791	BCHMN						not used
0792	BCJKN						not used
0793	BCJLN						not used
0794	BCJMN						not used
0795	BCKLN						not used
0796	BCKMN						not used
0797	BCLMN						not used
0798	BDEFN						not used
0799	BDEGN						not used
0800	BDEHN						not used
0801	BDEJN						not used
0802	BDEKN						not used
0803	BDELN						not used
0804	BDEMN						not used
0805	BDFGN						not used
0806	BDFHN						not used
0807	BDFJN						not used
0808	BDFKN						not used
0809	BDFLN						not used
0810	BDFMN						not used
0811	BDGHN						not used
0812	BDGJN						not used
0813	BDGKN						not used
0814	BDGLN						not used
0815	BDGMN						not used
0816	BDHJN						not used
0817	BDHKN						not used
0818	BDHLN						not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
0819	BDHMN						not used
0820	BDJKN						not used
0821	BDJLN						not used
0822	BDJMN						not used
0823	BDKLN						not used
0824	BDKMN						not used
0825	BDLMN						not used
0826	BEFGN						not used
0827	BEFHN						not used
0828	BEFJN						not used
0829	BEFKN						not used
0830	BEFLN						not used
0831	BEFMN						not used
0832	BEGHN						not used
0833	BEGJN						not used
0834	BEGKN						not used
0835	B EGLN						not used
0836	BEGMN						not used
0837	BEHJN						not used
0838	BEHKN						not used
0839	BEHLN						not used
0840	BEHMN						not used
0841	BEJKN						not used
0842	BEJLN						not used
0843	BEJMN						not used
0844	BEKLN						not used
0845	BEKMN						not used
0846	BELMN						not used
0847	BFGHN						not used
0848	BFGJN						not used
0849	BFGKN						not used
0850	BFGLN						not used
0851	BFGMN						not used
0852	BFHJN						not used
0853	BFHKN						not used
0854	BFHLN						not used
0855	BFHMN						not used
0856	BFJKN						not used
0857	BFJLN						not used
0858	BFJMN						not used
0859	BFKLN						not used
0860	BFKMN						not used
0861	BFLMN						not used
0862	BGHJN						not used
0863	BGHKN						not used
0864	BGHLN						not used
0865	BGHMN						not used
0866	BGJKN						not used
0867	BGJLN						not used
0868	BGJMN						not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
0869	BGKLN	119	5F 3B / 5F 3B		NNM2	50 V	Twin D.C. Neutral Relay Geographical Shorting Unit	with palladium contacts
		120	3B / 3B		SU			
0870	BGKMN	33	4F 3B / 4F 3B		NNMD2	50 V	Twin D.C. Neutral Relay Geographical Shorting Unit	double wound with palladium contacts
		36	3B / 3B		SU			
0871	BGLMN	119	5F 3B / 5F 3B		NNMS2	50 V	Twin D.C. Neutral Relay	with palladium contacts
0872	BHJKN	18	2F 2B / 2F 2B		NNM2	50 V	Twin D.C. Neutral Relay	with palladium contacts
0873	BHJKN							not used
0874	BHJLN							not used
0875	BHKLN							not used
0876	BHKMN							not used
0877	BHLMN							not used
0878	BJKLN							not used
0879	BJKMN							not used
0880	BJLMN							not used
0881	BKLMN							not used
0882	CDEFL							not used
0883	CDEGL							not used
0884	CDEHL							not used
0885	CDEJL							not used
0886	CDEKL							not used
0887	CDFGL							not used
0888	CDFHL							not used
0889	CDFJL							not used
0890	CDFKL							not used
0891	CDGHL							not used
0892	CDGJL							not used
0893	CDGKL							not used
0894	CDHJL							not used
0895	CDHKL							not used
0896	CDJKL							not used
0897	CEFGJL							not used
0898	CEFHL							not used
0899	CEFJL							not used
0900	CEFKL							not used
0901	CEGHL							not used
0902	CEGJL							not used
0903	CEGKL							not used
0904	CEHJL							not used
0905	CEHKL							not used
0906	CEJKL							not used
0907	CFGHL							not used
0908	CFGJL							not used
0909	CFGKL							not used
0910	CFHJL							not used
0911	CFHKL							not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
0912	CFJKL							not used
0913	CGHJL							not used
0914	CGHKL							not used
0915	CGJKL							not used
0916	CHJKL							not used
0917	CDEFM							not used
0918	CDEGM							not used
0919	CDEHM							not used
0920	CDEJM							not used
0921	CDEKM							not used
0922	CDELM							not used
0923	CDFGM							not used
0924	CDFHM							not used
0925	CDFJM							not used
0926	CDFKM							not used
0927	CDFLM							not used
0928	CDGHM							not used
0929	CDGJM							not used
0930	CDGKM							not used
0931	CDGLM							not used
0932	CDHJM							not used
0933	CDHKM							not used
0934	CDHLM							not used
0935	CDJKM							not used
0936	CDJLM							not used
0937	CDKLM							not used
0938	CEFGM							not used
0939	CEFHM							not used
0940	CEFJM							not used
0941	CEFKM							not used
0942	CEFLM							not used
0943	CEGHM							not used
0944	CEGJM							not used
0945	CEGKM							not used
0946	CEGLM							not used
0947	CEHJM							not used
0948	CEHKM							not used
0949	CEHLM							not used
0950	CEJKM							not used
0951	CEJLM							not used
0952	CEKLM							not used
0953	CFGHM							not used
0954	CFGJM							not used
0955	CFGKM							not used
0956	CFGLM							not used
0957	CFHJM		4F 4B	(BR 930) [2]	N	12 V	D.C. Neutral Relay	this voltage not covered by the specification
0958	CFHKM	5	4F 4B				Lamp Proving Relay	
0959	CFHLM							not used
0960	CFJKM	90	2F 2B			12 V	Line Relay	

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
0961	CFJLM	5	4F 4B		ECX		A.C. Lamp Proving Relay	
0962	CFKLM	20	6F 2B / 6F 2B	(BR 966 F6) [30]	NNA	24 V	Twin A.C. Immune Neutral Relay	
0963	CGHJM	19	4F 4B / 4F 4B	(BR 966 F6) [30]	NNA	24 V	Twin A.C. Immune Neutral Relay	
		18	2F 2B / 2F 2B	(BR 966 F6) [30]	NNA	24 V	Twin A.C. Immune Neutral Relay	
0964	CGHKM							not used
0965	CGHLM							not used
0966	CGJKM							not used
0967	CGJLM							not used
0968	CGKLM							not used
0969	CHJKM							not used
0970	CHJLM							not used
0971	CHKLM							not used
0972	CJKLM							not used
0973	CDEFN							not used
0974	CDEGN							not used
0975	CDEHN							not used
0976	CDEJN							not used
0977	CDEKN							not used
0978	CDELN							not used
0979	CDEM N							not used
0980	CDFGN							not used
0981	CDFHN							not used
0982	CDFJN							not used
0983	CDFKN							not used
0984	CDFLN							not used
0985	CDFMN							not used
0986	CDGHN							not used
0987	CDGJN							not used
0988	CDGKN							not used
0989	CDGLN							not used
0990	CDGMN							not used
0991	CDHJN							not used
0992	CDHKN							not used
0993	CDHLN							not used
0994	CDHMN							not used
0995	CDJKN							not used
0996	CDJLN							not used
0997	CDJMN							not used
0998	CDKLN							not used
0999	CDKMN							not used
1000	CDLMN							not used
1001	CEFGN							not used
1002	CEFHN							not used
1003	CEFJN							not used
1004	CEFKN							not used
1005	CEFLN							not used
1006	CEFMN							not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
1007	CEGHN						not used
1008	CEGJN						not used
1009	CEGKN						not used
1010	CEGLN						not used
1011	CEGMN						not used
1012	CEHJN						not used
1013	CEHKN						not used
1014	CEHLN						not used
1015	CEHMN						not used
1016	CEJKN						not used
1017	CEJLN						not used
1018	CEJMN						not used
1019	CEKLN						not used
1020	CEKMN						not used
1021	CELMN						not used
1022	CFGHN						not used
1023	CFGJN						not used
1024	CFGKN						not used
1025	CFGLN						not used
1026	CFGMN						not used
1027	CFHJN						not used
1028	CFHKN						not used
1029	CFHLN						not used
1030	CFHMN						not used
1031	CFJKN						not used
1032	CFJLN						not used
1033	CFJMN						not used
1034	CFKLN	151			24 V D.C.	TPWS - Power Supply and Signalling Interface Module - White	
1035	CFKMN	151				TPWS - Power Supply and Signalling Interface Module - Red	
1036	CFLMN	152				TPWS - Overspeed Sensor Module (Normal Direction) - Yellow	
1037	CGHJN	152				TPWS - Overspeed Sensor Module (Opposite Direction) - Blue	
1038	CGHKN	152				TPWS - Train Stop Module (Normal Direction) - Green	
1039	CGHLN	152				TPWS - Train Stop Module (Opposite Direction) - Brown	
1040	CGHMN						not used
1041	CGJKN						not used
1042	CGJLN						not used
1043	CGJMN						not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
1044	CGKLN	119	5F 3B / 5F 3B		NNM1	50 V	Twin D.C. Neutral Relay	with medium duty contacts
1045	CGKMN	33 36	4F 3B / 4F 3B 3B / 3B		NNMD1 SU	50 V	Twin D.C. Neutral Relay Geographical Shorting Unit	double wound with medium duty contacts
1046	CGLMN				NNMS1	50 V	Twin Neutral Relay Slow Release	with medium duty contacts
1047	CHJKN						Correspondence Indicator	(no further details available)
1048	CHJLN	121	2F		CTU1	15 W	"Call Technician" Unit	
1049	CHJMN					50 V	D.C. Neutral Line Relay	with medium duty contacts
1050	CHKLN	122				12 V	Oscillator Unit for Overlay Track Circuits (32 kHz)	
1051	CHKMN	123			XR1	(75 Hz) 110/50 V 3.5 W	Transformer-Rectifier Unit	1 µF cable capacity immunity
1052	CHLMN	124	4F 4B / 2F 1B	BR 962 [24]	JN	24 V	Twin D.C. Thermal Timer (30-120s)	
1053	CJKLN	124	4F 4B / 2F 1B	BR 962 [24]	JN	50 V	Twin D.C. Thermal Timer (30-120s)	
1054	CJKMN	125	6F 2B / 2F 1B	BR 962 [24]	JN	24 V	Twin D.C. Thermal Timer (30-120s)	
1055	CJLMN							reserved
1056	CKLMN	126 127 128 129 130	2F 2F 2F 2F 2F			50 V 50 V 50 V 50 V 50 V	D.C. Neutral Relay Slow Release (1s delay) D.C. Neutral Relay Slow Release (2s delay) D.C. Neutral Relay Slow Release (3s delay) D.C. Neutral Relay Slow Release (4s delay) D.C. Neutral Relay Slow Release (5s delay)	five arrangements
1057	DEFGL	9 9 11	8F 8B 8F 8B 8F 8B	BR 966 F3 [35] BR 966 F3 [35]	NE1 NM1 NDE	24 V 24 V 24 V	D.C. Neutral Line Relay D.C. Neutral Line Relay D.C. Neutral Line Relay	three styles: - with heavy duty metal to metal back contacts - with medium duty metal to metal back contacts - double wound with heavy duty back contacts
1058	DEFHL							reserved
1059	DEFJL	125 131	6F 2B / 2F 1B 2B	BR 962 [24]	JN SU	50 V	Twin D.C. Thermal Timer (30-120s) Geographical Shorting Unit	
1060	DEFKL	132	2c/o 1F 1B / 2c/o 1F 1B		R3	50 V	Twin A.C. Immune (PO 3000 type) Relay (6-9s)	(obsolete)

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
1061	DEGHL	113 or 114		RR1010	12 V	Transmitter Reed Filter Channel 01	
1062	DEGJL	112, 115, 116 or 134		RR2010	12 V	Receiver Reed Filter Channel 01	
1063	DEGKL	113 or 114		RR1020	12 V	Transmitter Reed Filter Channel 02	
1064	DEHJL	112, 115, 116 or 134		RR2020	12 V	Receiver Reed Filter Channel 02	
1065	DEHKL	113 or 114		RR1030	12 V	Transmitter Reed Filter Channel 03	
1066	DEJKL	112, 115, 116 or 134		RR2030	12 V	Receiver Reed Filter Channel 03	
1067	DFGHL	113 or 114		RR1040	12 V	Transmitter Reed Filter Channel 04	
1068	DFGJL	112, 115, 116 or 134		RR2040	12 V	Receiver Reed Filter Channel 04	
1069	DFGKL	113 or 114		RR1050	12 V	Transmitter Reed Filter Channel 05	
1070	DFHJL	112, 115, 116 or 134		RR2050	12 V	Receiver Reed Filter Channel 05	
1071	DFHKL	113 or 114		RR1060	12 V	Transmitter Reed Filter Channel 06	
1072	DFJKL	112, 115, 116 or 134		RR2060	12 V	Receiver Reed Filter Channel 06	
1073	DGHJL	113 or 114		RR1070	12 V	Transmitter Reed Filter Channel 07	
1074	DGHKL	112, 115, 116 or 134		RR2070	12 V	Receiver Reed Filter Channel 07	
1075	DGJKL	113 or 114		RR1080	12 V	Transmitter Reed Filter Channel 08	

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
1076	DHJKL	112, 115, 116 or 134		RR2080	12 V	Receiver Reed Filter Channel 08	
1077	DEFGM	113 or 114		RR1090	12 V	Transmitter Reed Filter Channel 09	
1078	DEFHM	112, 115, 116 or 134		RR2090	12 V	Receiver Reed Filter Channel 09	
1079	DEFJM	113 or 114		RR1100	12 V	Transmitter Reed Filter Channel 10	
1080	DEFKM	112, 115, 116 or 134		RR2100	12 V	Receiver Reed Filter Channel 10	
1081	DEFLM	113 or 114		RR1110	12 V	Transmitter Reed Filter Channel 11	
1082	DEGHM	112, 115, 116 or 134		RR2110	12 V	Receiver Reed Filter Channel 11	
1083	DEGJM	113 or 114		RR1120	12 V	Transmitter Reed Filter Channel 12	
1084	DEGKM	112, 115, 116 or 134		RR2120	12 V	Receiver Reed Filter Channel 12	
1085	DEGLM	113 or 114		RR1130	12 V	Transmitter Reed Filter Channel 13	
1086	DEHJM	112, 115, 116 or 134		RR2130	12 V	Receiver Reed Filter Channel 13	
1087	DEHKM	113 or 114		RR1140	12 V	Transmitter Reed Filter Channel 14	
1088	DEHLM	112, 115, 116 or 134		RR2140	12 V	Receiver Reed Filter Channel 14	
1089	DEJKM	113 or 114		RR1150	12 V	Transmitter Reed Filter Channel 15	

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
1090	DEJLM	112, 115, 116 or 134		RR2150	12 V	Receiver Reed Filter Channel 15	
1091	DEKLM	113 or 114		RR1160	12 V	Transmitter Reed Filter Channel 16	
1092	DFGHM	112, 115, 116 or 134		RR2160	12 V	Receiver Reed Filter Channel 16	
1093	DFGJM	113 or 114		RR1170	12 V	Transmitter Reed Filter Channel 17	
1094	DFGKM	112, 115, 116 or 134		RR2170	12 V	Receiver Reed Filter Channel 17	
1095	DFGLM	113 or 114		RR1180	12 V	Transmitter Reed Filter Channel 18	
1096	DFHJM	112, 115, 116 or 134		RR2180	12 V	Receiver Reed Filter Channel 18	
1097	DFHKM	113 or 114		RR1190	12 V	Transmitter Reed Filter Channel 19	
1098	DFHLM	112, 115, 116 or 134		RR2190	12 V	Receiver Reed Filter Channel 19	
1099	DFJKM	113 or 114		RR1200	12 V	Transmitter Reed Filter Channel 20	
1100	DFJLM	112, 115, 116 or 134		RR2200	12 V	Receiver Reed Filter Channel 20	
1101	DFKLM	113 or 114		RR1210	12 V	Transmitter Reed Filter Channel 21	
1102	DGHJM	112, 115, 116 or 134		RR2210	12 V	Receiver Reed Filter Channel 21	
1103	DGHKM	113 or 114		RR1220	12 V	Transmitter Reed Filter Channel 22	

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
1104	DGHLM	112, 115, 116 or 134		RR2220	12 V	Receiver Reed Filter Channel 22	
1105	DGJKM	113 or 114		RR1230	12 V	Transmitter Reed Filter Channel 23	
1106	DGJLM	112, 115, 116 or 134		RR2230	12 V	Receiver Reed Filter Channel 23	
1107	DGKLM	113 or 114		RR1240	12 V	Transmitter Reed Filter Channel 24	
1108	DHJKM	112, 115, 116 or 134		RR2240	12 V	Receiver Reed Filter Channel 24	
1109	DHJLM	113 or 114		RR1250	12 V	Transmitter Reed Filter Channel 25	
1110	DHKLM	112, 115, 116 or 134		RR2250	12 V	Receiver Reed Filter Channel 25	
1111	DJKLM	113 or 114		RR1260	12 V	Transmitter Reed Filter Channel 26	
1112	DEFGN	112, 115, 116 or 134		RR2260	12 V	Receiver Reed Filter Channel 26	
1113	DEFHN	113 or 114		RR1270	12 V	Transmitter Reed Filter Channel 27	
1114	DEFJN	112, 115, 116 or 134		RR2270	12 V	Receiver Reed Filter Channel 27	
1115	DEFKN	113 or 114		RR1280	12 V	Transmitter Reed Filter Channel 28	
1116	DEFLN	112, 115, 116 or 134		RR2280	12 V	Receiver Reed Filter Channel 28	
1117	DEFMN	113 or 114		RR1290	12 V	Transmitter Reed Filter Channel 29	

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
1118	DEGHN	112, 115, 116 or 134		RR2290	12 V	Receiver Reed Filter Channel 29	
1119	DEGJN	113 or 114		RR1300	12 V	Transmitter Reed Filter Channel 30	
1120	DEGKN	112, 115, 116 or 134		RR2300	12 V	Receiver Reed Filter Channel 30	
1121	DEGLN	113 or 114		RR1310	12 V	Transmitter Reed Filter Channel 31	
1122	DEGMN	112, 115, 116 or 134 226		RR2310 CU	12 V	Receiver Reed Filter Channel 31 WESTPLEX Interface Unit	Converts Receiver RR2310
1123	DEHJN	113 or 114		RR1320	12 V	Transmitter Reed Filter Channel 32	
1124	DEHKN	112, 115, 116 or 134 226		RR2320 CU	12 V	Receiver Reed Filter Channel 32 WESTPLEX Interface Unit	Converts Receiver RR2320
1125	DEHLN	113 or 114		RR1330	12 V	Transmitter Reed Filter Channel 33	
1126	DEHMN	112, 115, 116 or 134 226		RR2330 CU	12 V	Receiver Reed Filter Channel 33 WESTPLEX Interface Unit	Converts Receiver RR2330
1127	DEJKN	113 or 114		RR1340	12 V	Transmitter Reed Filter Channel 34	
1128	DEJLN	112, 115, 116 or 134 226		RR2340 CU	12 V	Receiver Reed Filter Channel 34 WESTPLEX Interface Unit	Converts Receiver RR2340
1129	DEJMN	113 or 114		RR1350	12 V	Transmitter Reed Filter Channel 35	

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
1130	DEKLN	112, 115, 116 or 134 226		RR2350	12 V	Receiver Reed Filter Channel 35	Converts Receiver RR2350
				CU		WESTPLEX Interface Unit	
1131	DEKMN	113 or 114		RR1360	12 V	Transmitter Reed Filter Channel 36	
1132	DELMN	112, 115, 116 or 134		RR2360	12 V	Receiver Reed Filter Channel 36	
1133	DFGHN	113 or 114		RR1370	12 V	Transmitter Reed Filter Channel 37	
1134	DFGJN	112, 115, 116 or 134		RR2370	12 V	Receiver Reed Filter Channel 37	
1135	DFGKN	113 or 114		RR1380	12 V	Transmitter Reed Filter Channel 38	
1136	DFGLN	112, 115, 116 or 134		RR2380	12 V	Receiver Reed Filter Channel 38	
1137	DFGMN	113 or 114		RR1390	12 V	Transmitter Reed Filter Channel 39	
1138	DFHJN	112, 115, 116 or 134		RR2390	12 V	Receiver Reed Filter Channel 39	
1139	DFHKN	113 or 114		RR1400	12 V	Transmitter Reed Filter Channel 40	
1140	DFHLN	112, 115, 116 or 134		RR2400	12 V	Receiver Reed Filter Channel 40	
1141	DFHMN	113 or 114		RR1410	12 V	Transmitter Reed Filter Channel 41	
1142	DFJKN	112, 115, 116 or 134		RR2410	12 V	Receiver Reed Filter Channel 41	
1143	DFJLN	113 or 114		RR1420	12 V	Transmitter Reed Filter Channel 42	

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
1144	DFJMN	112, 115, 116 or 134		RR2420	12 V	Receiver Reed Filter Channel 42	
1145	DFKLN	113 or 114		RR1430	12 V	Transmitter Reed Filter Channel 43	
1146	DFKMN	112, 115, 116 or 134		RR2430	12 V	Receiver Reed Filter Channel 43	
1147	DFLMN	113 or 114		RR1440	12 V	Transmitter Reed Filter Channel 44	
1148	DGHJN	112, 115, 116 or 134		RR2440	12 V	Receiver Reed Filter Channel 44	
1149	DGHKN	113 or 114		RR1450	12 V	Transmitter Reed Filter Channel 45	
1150	DGHLN	112, 115, 116 or 134		RR2450	12 V	Receiver Reed Filter Channel 45	
1151	DGHMN	113 or 114		RR1460	12 V	Transmitter Reed Filter Channel 46	
1152	DGJKN	112, 115, 116 or 134		RR2460	12 V	Receiver Reed Filter Channel 46	
1153	DGJLN	113 or 114		RR1470 RR4140	12 V 12 V	Transmitter Reed Filter Channel 47 Transmitter Reed Filter Channel 414	
1154	DGJMN	112, 115, 116 or 134		RR2470 RR7140	12 V 12 V	Receiver Reed Filter Channel 47 Receiver Reed Filter Channel 414	
1155	DGKLN	113 or 114		RR1480 RR4160	12 V 12 V	Transmitter Reed Filter Channel 48 Transmitter Reed Filter Channel 416	
1156	DGKMN	112, 115, 116 or 134		RR2480 RR7160	12 V 12 V	Receiver Reed Filter Channel 48 Receiver Reed Filter Channel 416	
1157	DGLMN	113 or 114		RR1490	12 V	Transmitter Reed Filter Channel 49	

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
1158	DHJKN	112, 115, 116 or 134		RR2490	12 V	Receiver Reed Filter Channel 49	
1159	DHJLN	113 or 114		RR1500	12 V	Transmitter Reed Filter Channel 50	
1160	DHJMN	112, 115, 116 or 134		RR2500	12 V	Receiver Reed Filter Channel 50	
1161	DHKLN	113 or 114		RR1510	12 V	Transmitter Reed Filter Channel 51	
1162	DHKMN	112, 115, 116 or 134		RR2510	12 V	Receiver Reed Filter Channel 51	
1163	DHLMN						not used
1164	DJKLN						not used
1165	DJKMN						not used
1166	DJLMN						not used
1167	DKLMN						not used
1168	EFGHL						not used
1169	EFGJL	113 or 114		RR4010	12 V	Transmitter Reed Filter Channel 401	
1170	EFGKL	112, 115 or 116		RR7010	12 V	Receiver Reed Filter Channel 401	
1171	EFHJL	113 or 114		RR4020	12 V	Transmitter Reed Filter Channel 402	
1172	EFHKL	112, 115 or 116		RR7020	12 V	Receiver Reed Filter Channel 402	
1173	EFJKL	113 or 114		RR4030	12 V	Transmitter Reed Filter Channel 403	
1174	EGHJL	112, 115 or 116		RR7030	12 V	Receiver Reed Filter Channel 403	
1175	EGHKL	113 or 114		RR4040	12 V	Transmitter Reed Filter Channel 404	
1176	EGJKL	112, 115 or 116		RR7040	12 V	Receiver Reed Filter Channel 404	
1177	EHJKL	113 or 114		RR4050	12 V	Transmitter Reed Filter Channel 405	

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
1178	EFGHM	112, 115 or 116		RR7050	12 V	Receiver Reed Filter Channel 405	
1179	EFGJM	113 or 114		RR1600	12 V	Transmitter Reed Filter Channel 60	
1180	EFGKM	112, 115, 116 or 134		RR2600	12 V	Receiver Reed Filter Channel 60	
1181	EFGLM	113 or 114		RR1610	12 V	Transmitter Reed Filter Channel 61	
1182	EFHJM	112, 115, 116 or 134		RR2610	12 V	Receiver Reed Filter Channel 61	
1183	EFHKM	113 or 114		RR1620	12 V	Transmitter Reed Filter Channel 62	
1184	EFHLM	112, 115, 116 or 134		RR2620	12 V	Receiver Reed Filter Channel 62	
1185	EFJKM	113 or 114		RR1630	12 V	Transmitter Reed Filter Channel 63	
1186	EFJLM	112, 115, 116 or 134		RR2630	12 V	Receiver Reed Filter Channel 63	
1187	EFKLM	113 or 114		RR1640	12 V	Transmitter Reed Filter Channel 64	
1188	EGHJM	112, 115, 116 or 134		RR2640	12 V	Receiver Reed Filter Channel 64	
1189	EGHKM	113 or 114		RR1650	12 V	Transmitter Reed Filter Channel 65	
1190	EGHLM	112, 115, 116 or 134		RR2650	12 V	Receiver Reed Filter Channel 65	
1191	EGJKM	113 or 114		RR1660	12 V	Transmitter Reed Filter Channel 66	

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
1192	EGJLM	112, 115, 116 or 134		RR2660	12 V	Receiver Reed Filter Channel 66	
1193	EGKLM	113 or 114		RR1670	12 V	Transmitter Reed Filter Channel 67	
1194	EHJKM	112, 115, 116 or 134		RR2670	12 V	Receiver Reed Filter Channel 67	
1195	EHJLM	113 or 114		RR1680	12 V	Transmitter Reed Filter Channel 68	
1196	EHKLM	112, 115, 116 or 134		RR2680	12 V	Receiver Reed Filter Channel 68	
1197	EJKLM						not used
1198	EFGHN						not used
1199	EFGJN						not used
1200	EFGKN						not used
1201	EFGLN						not used
1202	EFGMN						not used
1203	EFHJN						not used
1204	EFHKN						not used
1205	EFHLN						not used
1206	EFHMN						not used
1207	EFJKN						not used
1208	EFJLN						not used
1209	EFJMN						not used
1210	EFKLN						not used
1211	EFKMN	113 or 114		RR4060	12 V	Transmitter Reed Filter Channel 406	
1212	EFLMN	112, 115 or 116		RR7060	12 V	Receiver Reed Filter Channel 406	
1213	EGHJN	113 or 114		RR4070	12 V	Transmitter Reed Filter Channel 407	
1214	EGHKN	112, 115 or 116		RR7070	12 V	Receiver Reed Filter Channel 407	
1215	EGHLN	113 or 114		RR4080	12 V	Transmitter Reed Filter Channel 408	
1216	EGHMN	112, 115 or 116		RR7080	12 V	Receiver Reed Filter Channel 408	

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
1217	EGJKN	113 or 114		RR4090	12 V	Transmitter Reed Filter Channel 409	
1218	EGJLN	112, 115 or 116		RR7090	12 V	Receiver Reed Filter Channel 409	
1219	EGJMN						not used
1220	EGKLN						not used
1221	EGKMN	113 or 114		RR1810	12 V	Transmitter Reed Filter Channel 81	
1222	EGLMN	112, 115, 116 or 134		RR2810	12 V	Receiver Reed Filter Channel 81	
1223	EHJKN	113 or 114		RR1820 RR4120	12 V 12 V	Transmitter Reed Filter Channel 82 Transmitter Reed Filter Channel 412	
1224	EHJLN	112, 115, 116 or 134		RR2820 RR7120	12 V 12 V	Receiver Reed Filter Channel 82 Receiver Reed Filter Channel 412	
1225	EHJMN	113 or 114		RR1830	12 V	Transmitter Reed Filter Channel 83	
1226	EHKLN	112, 115, 116 or 134		RR2830	12 V	Receiver Reed Filter Channel 83	
1227	EHKMN	113 or 114		RR1840	12 V	Transmitter Reed Filter Channel 84	
1228	EHLMN	112, 115, 116 or 134		RR2840	12 V	Receiver Reed Filter Channel 84	
1229	EJKLN	113 or 114		RR1850	12 V	Transmitter Reed Filter Channel 85	
1230	EJKMN	112, 115, 116 or 134		RR2850	12 V	Receiver Reed Filter Channel 85	
1231	EJLMN	113 or 114		RR1860	12 V	Transmitter Reed Filter Channel 86	
1232	EKLMN	112, 115, 116 or 134		RR2860	12 V	Receiver Reed Filter Channel 86	

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
1233	FGHJL	113 or 114		RR1870	12 V	Transmitter Reed Filter Channel 87	
1234	FGHKL	112, 115, 116 or 134		RR2870	12 V	Receiver Reed Filter Channel 87	
1235	FGJKL	113 or 114		RR1880	12 V	Transmitter Reed Filter Channel 88	
1236	FHJKL	112, 115, 116 or 134		RR2880	12 V	Receiver Reed Filter Channel 88	
1237	FGHJM	113 or 114		RR1890	12 V	Transmitter Reed Filter Channel 89	
1238	FGHKM	112, 115, 116 or 134		RR2890	12 V	Receiver Reed Filter Channel 89	
1239	FGHLM	113 or 114		RR1900	12 V	Transmitter Reed Filter Channel 90	
1240	FGJKM	112, 115, 116 or 134		RR2900	12 V	Receiver Reed Filter Channel 90	
1241	FGJLM	113 or 114		RR1910	12 V	Transmitter Reed Filter Channel 91	
1242	FGKLM	112, 115, 116 or 134		RR2910	12 V	Receiver Reed Filter Channel 91	
1243	FHJKM	113 or 114		RR1920	12 V	Transmitter Reed Filter Channel 92	
1244	FHJLM	112, 115, 116 or 134		RR2920	12 V	Receiver Reed Filter Channel 92	
1245	FHKLM	113 or 114		RR1930	12 V	Transmitter Reed Filter Channel 93	
1246	FJKLM						not used
1247	FGHJN						not used
1248	FGHKN						not used
1249	FGHLN	113 or 114		RR4100	12 V	Transmitter Reed Filter Channel 410	

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
1250	FGHMN	112, 115 or 116			RR7100	12 V	Receiver Reed Filter Channel 410
1251	FGJKN						not used
1252	FGJLN						not used
1253	FGJMN	113 or 114			RR4110	12 V	Transmitter Reed Filter Channel 411
1254	FGKLN	112, 115 or 116			RR7110	12 V	Receiver Reed Filter Channel 411
1255	FGKMN	113 or 114			RR4130	12 V	Transmitter Reed Filter Channel 413
1256	FGLMN	112, 115 or 116			RR7130	12 V	Receiver Reed Filter Channel 413
1257	FHJKN	113 or 114			RR4150	12 V	Transmitter Reed Filter Channel 415
1258	FHJLN	112, 115 or 116			RR7150	12 V	Receiver Reed Filter Channel 415
1259	FHJMN						not used
1260	FHKLN						not used
1261	FHKMN						not used
1262	FHLMN						not used
1263	FJKLN						not used
1264	FJKMN						not used
1265	FJLMN						not used
1266	FKLMN						not used
1267	GHJLK						not used
1268	GHJKM						not used
1269	GHJLM						not used
1270	GHKLM						not used
1271	GJKLM						not used
1272	GHJKN						not used
1273	GHJLN						not used
1274	GHJMN						not used
1275	GHKLN						not used
1276	GHKMN						not used
1277	GHLMN						not used
1278	GJKLN						not used
1279	GJKMN						not used
1280	GJLMN						not used
1281	GKLMN						not used
1282	HJKLM						not used
1283	HJKLN						not used
1284	HJKMN						not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
1285	HJLMN	133			RR1990	12 V	Reed Transmitter Repeater Unit	
1286	HKLMN							not used
1287	JKLMN							not used
1288	no code							
1289	ABCDP							(pin P originally known as SGE pin X – pin code 258)
1290	ABCEP							not used
1291	ABCFP							not used
1292	ABCGP							not used
1293	ABCHP							not used
1294	ABCJP							not used
1295	ABCKP							not used
1296	ABCLP							not used
1297	ABCMP							not used
1298	ABCNP							not used
1299	ABDEP	26	8F 4B		SR2	24 V	Neutral Slow Release Relay	for New Zealand Railways (pin P originally known as SGE pin X – pin code 268)
1300	ABDFP							not used
1301	ABDGP							not used
1302	ABDHP							not used
1303	ABDJP							not used
1304	ABDKP		2F 2B			9Ω	D.C. Neutral Track Relay	(pin P originally known as SGE pin X – pin code 273)
1305	ABDLP							not used
1306	ABDMP							not used
1307	ABDNP							not used
1308	ABEFP							not used
1309	ABEGP							not used
1310	ABEHP							not used
1311	ABEJP							not used
1312	ABEKP							not used
1313	ABELP							not used
1314	ABEMP							not used
1315	ABENP							not used
1316	ABFGP							not used
1317	ABFHP							not used
1318	ABFJP							not used
1321	ABFKP							not used
1322	ABFLP							not used
1323	ABFMP							not used
1324	ABFNP							not used
1325 to 1356	no code							
1357	DEFGLPQ							not used
1358	DEFHLPQ							not used
1359	DEFJLPQ							not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
1360	PQ	112, 115 or 116		RR1710	12 V	Transmitter Reed Filter Channel 71	Note: there is no configuration DEFKLPQ (universal spares)
				RR1720	12 V	Transmitter Reed Filter Channel 72	
				RR2710	12 V	Receiver Reed Filter Channel 71	
				RR2720	12 V	Receiver Reed Filter Channel 72	
1361	DEGHLPQ	113 or 114		RR1010	12 V	Transmitter Reed Filter Channel 01	for use with universal spare
1362	DEGJLPQ	112, 115, 116 or 134		RR2010	12 V	Receiver Reed Filter Channel 01	for use with universal spare
1363	DEGKLPQ	113 or 114		RR1020	12 V	Transmitter Reed Filter Channel 02	for use with universal spare
1364	DEHJLPQ	112, 115, 116 or 134		RR2020	12 V	Receiver Reed Filter Channel 02	for use with universal spare
1365	DEHKLPQ	113 or 114		RR1030	12 V	Transmitter Reed Filter Channel 03	for use with universal spare
1366	DEJKLPQ	112, 115, 116 or 134		RR2030	12 V	Receiver Reed Filter Channel 03	for use with universal spare
1367	DFGHLPQ	113 or 114		RR1040	12 V	Transmitter Reed Filter Channel 04	for use with universal spare
1368	DFGJLPQ	112, 115, 116 or 134		RR2040	12 V	Receiver Reed Filter Channel 04	for use with universal spare
1369	DFGKLPQ	113 or 114		RR1050	12 V	Transmitter Reed Filter Channel 05	for use with universal spare
1370	DFHJLPQ	112, 115, 116 or 134		RR2050	12 V	Receiver Reed Filter Channel 05	for use with universal spare
1371	DFHKLPQ	113 or 114		RR1060	12 V	Transmitter Reed Filter Channel 06	for use with universal spare
1372	DFJKLPQ	112, 115, 116 or 134		RR2060	12 V	Receiver Reed Filter Channel 06	for use with universal spare
1373	DGHJLPQ	113 or 114		RR1070	12 V	Transmitter Reed Filter Channel 07	for use with universal spare

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
1374	DGHKLPQ	112, 115, 116 or 134		RR2070	12 V	Receiver Reed Filter Channel 07	for use with universal spare
1375	DGJKLPQ	113 or 114		RR1080	12 V	Transmitter Reed Filter Channel 08	for use with universal spare
1376	DHJKLPQ	112, 115, 116 or 134		RR2080	12 V	Receiver Reed Filter Channel 08	for use with universal spare
1377	DEFGMPQ	113 or 114		RR1090	12 V	Transmitter Reed Filter Channel 09	for use with universal spare
1378	DEFHMPQ	112, 115, 116 or 134		RR2090	12 V	Receiver Reed Filter Channel 09	for use with universal spare
1379	DEFJMPQ	113 or 114		RR1100	12 V	Transmitter Reed Filter Channel 10	for use with universal spare
1380	DEFKMPQ	112, 115, 116 or 134		RR2100	12 V	Receiver Reed Filter Channel 10	for use with universal spare
1381	DEFLMPQ	113 or 114		RR1110	12 V	Transmitter Reed Filter Channel 11	for use with universal spare
1382	DE-GHMPQ	112, 115, 116 or 134		RR2110	12 V	Receiver Reed Filter Channel 11	for use with universal spare
1383	DEGJMPQ	113 or 114		RR1120	12 V	Transmitter Reed Filter Channel 12	for use with universal spare
1384	DE-GKMPQ	112, 115, 116 or 134		RR2120	12 V	Receiver Reed Filter Channel 12	for use with universal spare
1385	DE-GLMPQ	113 or 114		RR1130	12 V	Transmitter Reed Filter Channel 13	for use with universal spare
1386	DEHJMPQ	112, 115, 116 or 134		RR2130	12 V	Receiver Reed Filter Channel 13	for use with universal spare
1387	DE-HKMPQ	113 or 114		RR1140	12 V	Transmitter Reed Filter Channel 14	for use with universal spare

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
1388	DE-HLMPQ	112, 115, 116 or 134		RR2140	12 V	Receiver Reed Filter Channel 14	for use with universal spare
1389	DEJKMPQ	113 or 114		RR1150	12 V	Transmitter Reed Filter Channel 15	for use with universal spare
1390	DEJLMPQ	112, 115, 116 or 134		RR2150	12 V	Receiver Reed Filter Channel 15	for use with universal spare
1391	DEKLMPQ	113 or 114		RR1160	12 V	Transmitter Reed Filter Channel 16	for use with universal spare
1392	DF-GHMPQ	112, 115, 116 or 134		RR2160	12 V	Receiver Reed Filter Channel 16	for use with universal spare
1393	DFGJMPQ	113 or 114		RR1170	12 V	Transmitter Reed Filter Channel 17	for use with universal spare
1394	DFGKMPQ	112, 115, 116 or 134		RR2170	12 V	Receiver Reed Filter Channel 17	for use with universal spare
1395	DFGLMPQ	113 or 114		RR1180	12 V	Transmitter Reed Filter Channel 18	for use with universal spare
1396	DFHJMPQ	112, 115, 116 or 134		RR2180	12 V	Receiver Reed Filter Channel 18	for use with universal spare
1397	DFHKMPQ	113 or 114		RR1190	12 V	Transmitter Reed Filter Channel 19	for use with universal spare
1398	DFHLMPQ	112, 115, 116 or 134		RR2190	12 V	Receiver Reed Filter Channel 19	for use with universal spare
1399	DFJKMPQ	113 or 114		RR1200	12 V	Transmitter Reed Filter Channel 20	for use with universal spare
1400	DFJLMPQ	112, 115, 116 or 134		RR2200	12 V	Receiver Reed Filter Channel 20	for use with universal spare
1401	DFKLMPQ	113 or 114		RR1210	12 V	Transmitter Reed Filter Channel 21	for use with universal spare

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
1402	DGHJMPQ	112, 115, 116 or 134		RR2210	12 V	Receiver Reed Filter Channel 21	for use with universal spare
1403	DGHKMPQ	113 or 114		RR1220	12 V	Transmitter Reed Filter Channel 22	for use with universal spare
1404	DGHLMPQ	112, 115, 116 or 134		RR2220	12 V	Receiver Reed Filter Channel 22	for use with universal spare
1405	DGJKMPQ	113 or 114		RR1230	12 V	Transmitter Reed Filter Channel 23	for use with universal spare
1406	DGJLMPQ	112, 115, 116 or 134		RR2230	12 V	Receiver Reed Filter Channel 23	for use with universal spare
1407	DGKLMPQ	113 or 114		RR1240	12 V	Transmitter Reed Filter Channel 24	for use with universal spare
1408	DHJKMPQ	112, 115, 116 or 134		RR2240	12 V	Receiver Reed Filter Channel 24	for use with universal spare
1409	DHJLMPQ	113 or 114		RR1250	12 V	Transmitter Reed Filter Channel 25	for use with universal spare
1410	DHKLMPQ	112, 115, 116 or 134		RR2250	12 V	Receiver Reed Filter Channel 25	for use with universal spare
1411	DJKLMPQ	113 or 114		RR1260	12 V	Transmitter Reed Filter Channel 26	for use with universal spare
1412	DEFGNPQ	112, 115, 116 or 134		RR2260	12 V	Receiver Reed Filter Channel 26	for use with universal spare
1413	DEFHNPQ	113 or 114		RR1270	12 V	Transmitter Reed Filter Channel 27	for use with universal spare
1414	DEFJNPQ	112, 115, 116 or 134		RR2270	12 V	Receiver Reed Filter Channel 27	for use with universal spare
1415	DEFKNPQ	113 or 114		RR1280	12 V	Transmitter Reed Filter Channel 28	for use with universal spare

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks	
1416	DEFLNPQ	112, 115, 116 or 134			RR2280	12 V	Receiver Reed Filter Channel 28	for use with universal spare
1417	DEFMNPQ	113 or 114			RR1290	12 V	Transmitter Reed Filter Channel 29	for use with universal spare
1418	DE-GHNPQ	112, 115, 116 or 134			RR2290	12 V	Receiver Reed Filter Channel 29	for use with universal spare
1419	DEGJNPQ	113 or 114			RR1300	12 V	Transmitter Reed Filter Channel 30	for use with universal spare
1420	DE-GKNPQ	112, 115, 116 or 134			RR2300	12 V	Receiver Reed Filter Channel 30	for use with universal spare
1421	DEGLNPQ	113 or 114			RR1310	12 V	Transmitter Reed Filter Channel 31	for use with universal spare
1422	DE-GMNPQ	112, 115, 116 or 134			RR2310	12 V	Receiver Reed Filter Channel 31	for use with universal spare
1423	DEHJNPQ	113 or 114			RR1320	12 V	Transmitter Reed Filter Channel 32	for use with universal spare
1424	DE-HKNPQ	112, 115, 116 or 134			RR2320	12 V	Receiver Reed Filter Channel 32	for use with universal spare
1425	DEHLNPQ	113 or 114			RR1330	12 V	Transmitter Reed Filter Channel 33	for use with universal spare
1426	DE-HMNPQ	112, 115, 116 or 134			RR2330	12 V	Receiver Reed Filter Channel 33	for use with universal spare
1427	DEJKNPQ	113 or 114			RR1340	12 V	Transmitter Reed Filter Channel 34	for use with universal spare
1428	DEJLNPQ	112, 115, 116 or 134			RR2340	12 V	Receiver Reed Filter Channel 34	for use with universal spare
1429	DEJMNPQ	113 or 114			RR1350	12 V	Transmitter Reed Filter Channel 35	for use with universal spare

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
1430	DEKLN PQ	112, 115, 116, or 134		RR2350	12 V	Receiver Reed Filter Channel 35	for use with universal spare
1431	DEKMNPQ	113 or 114		RR1360	12 V	Transmitter Reed Filter Channel 36	for use with universal spare
1432	DELMNPQ	112, 115, 116 or 134		RR2360	12 V	Receiver Reed Filter Channel 36	for use with universal spare
1433	DF-GHNPQ	113, or 114		RR1370	12 V	Transmitter Reed Filter Channel 37	for use with universal spare
1434	DFGJNPQ	112, 115, 116 or 134		RR2370	12 V	Receiver Reed Filter Channel 37	for use with universal spare
1435	DFGKNPQ	113 or 114		RR1380	12 V	Transmitter Reed Filter Channel 38	for use with universal spare
1436	DFGLNPQ	112, 115, 116 or 134		RR2380	12 V	Receiver Reed Filter Channel 38	for use with universal spare
1437	DFGMNPQ	113 or 114		RR1390	12 V	Transmitter Reed Filter Channel 39	for use with universal spare
1438	DFHJNPQ	112, 115, 116 or 134		RR2390	12 V	Receiver Reed Filter Channel 39	for use with universal spare
1439	DFHKNPQ	113 or 114		RR1400	12 V	Transmitter Reed Filter Channel 40	for use with universal spare
1440	DFHLNPQ	112, 115, 116 or 134		RR2400	12 V	Receiver Reed Filter Channel 40	for use with universal spare
1441	DFHMNPQ	113 or 114		RR1410	12 V	Transmitter Reed Filter Channel 41	for use with universal spare
1442	DFJKNPQ	112, 115, 116 or 134		RR2410	12 V	Receiver Reed Filter Channel 41	for use with universal spare
1443	DFJLNPQ	113 or 114		RR1420	12 V	Transmitter Reed Filter Channel 42	for use with universal spare

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
1444	DFJMN PQ	112, 115, 116 or 134		RR2420	12 V	Receiver Reed Filter Channel 42	for use with universal spare
1445	DFKLN PQ	113 or 114		RR1430	12 V	Transmitter Reed Filter Channel 43	for use with universal spare
1446	DFKMN PQ	112, 115, 116 or 134		RR2430	12 V	Receiver Reed Filter Channel 43	for use with universal spare
1447	DFLMN PQ	113 or 114		RR1440	12 V	Transmitter Reed Filter Channel 44	for use with universal spare
1448	DGHJN PQ	112, 115, 116 or 134		RR2440	12 V	Receiver Reed Filter Channel 44	for use with universal spare
1449	DGHKN PQ	113 or 114		RR1450	12 V	Transmitter Reed Filter Channel 45	for use with universal spare
1450	DGHLN PQ	112, 115, 116 or 134		RR2450	12 V	Receiver Reed Filter Channel 45	for use with universal spare
1451	DGHMN PQ	113 or 114		RR1460	12 V	Transmitter Reed Filter Channel 46	for use with universal spare
1452	DGJKN PQ	112, 115, 116 or 134		RR2460	12 V	Receiver Reed Filter Channel 46	for use with universal spare
1453	DGJLN PQ	113 or 114		RR1470	12 V	Transmitter Reed Filter Channel 47	for use with universal spare
1454	DGJMN PQ	112, 115, 116 or 134		RR2470	12 V	Receiver Reed Filter Channel 47	for use with universal spare
1455	DGKLN PQ	113 or 114		RR1480	12 V	Transmitter Reed Filter Channel 48	for use with universal spare
1456	DGKMN PQ	112, 115, 116 or 134		RR2480	12 V	Receiver Reed Filter Channel 48	for use with universal spare
1457	DG-LMN PQ	113 or 114		RR1490	12 V	Transmitter Reed Filter Channel 49	for use with universal spare

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
1458	DHJKNPQ	112, 115, 116 or 134		RR2490	12 V	Receiver Reed Filter Channel 49	for use with universal spare
1459	DHJLNPQ	113 or 114		RR1500	12 V	Transmitter Reed Filter Channel 50	for use with universal spare
1460	DHJMNPQ	112, 115, 116 or 134		RR2500	12 V	Receiver Reed Filter Channel 50	for use with universal spare
1461	DHKLNPQ	113 or 114		RR1510	12 V	Transmitter Reed Filter Channel 51	for use with universal spare
1462	DHKMNPQ	112, 115, 116 or 134		RR2510	12 V	Receiver Reed Filter Channel 51	for use with universal spare
1463	DHLMNPQ						not used
1464	DJKLNPQ						not used
1465	DJKMNPQ						not used
1466	DJLMNPQ						not used
1467	DKLMNPQ						not used
1468	EFGHLPQ						not used
1469	EFGJLPQ						not used
1470	EFGKLPQ						not used
1471	EFHJLPQ						not used
1472	EFHKLPQ						not used
1473	EFJKLPQ						not used
1474	EGHJLPQ						not used
1475	EGHKLPQ						not used
1476	EGJKLPQ						not used
1477	EHJKLPQ						not used
1478	EF-GHMPQ						not used
1479	EFGJMPQ						not used
1480	EFGKMPQ	112, 115, 116 or 134		RR2600	12 V	Receiver Reed Filter Channel 60	for use with universal spare
1481	EFGLMPQ						not used
1482	EFHJMPQ	112, 115, 116 or 134		RR2610	12 V	Receiver Reed Filter Channel 61	for use with universal spare
1483	EFHKMPQ						not used
1484	EFHLMPQ	112, 115, 116 or 134		RR2620	12 V	Receiver Reed Filter Channel 62	for use with universal spare

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
1485	EFJKMPQ						not used
1486	EFJLMPQ	112, 115, 116 or 134		RR2630	12 V	Receiver Reed Filter Channel 63	for use with universal spare
1487	EFKLMQP						not used
1488	EGHJMPQ	112, 115, 116 or 134		RR2640	12 V	Receiver Reed Filter Channel 64	for use with universal spare
1489	EGHKNPQ						not used
1490	EGHLMPQ	112, 115, 116 or 134		RR2650	12 V	Receiver Reed Filter Channel 65	for use with universal spare
1491	EGJKMPQ						not used
1492	EGJLMPQ	112, 115, 116 or 134		RR2660	12 V	Receiver Reed Filter Channel 66	for use with universal spare
1493	EGKLMQP						not used
1494	EHJKMPQ	112, 115, 116 or 134		RR2670	12 V	Receiver Reed Filter Channel 67	for use with universal spare
1495	EHJLMPQ						not used
1496	EHKLMQP	112, 115, 116 or 134		RR2680	12 V	Receiver Reed Filter Channel 68	for use with universal spare
1497	EJKLMPQ						not used
1498	EFGHNPQ						not used
1499	EFGJNPQ						not used
1500	EFGKNPQ						not used
1501	EFGLNPQ						not used
1502	EFGMNPQ						not used
1503	EFHJNPQ						not used
1504	EFHKNPQ						not used
1505	EFHLNPQ						not used
1506	EFHMNPQ						not used
1507	EFJKNPQ						not used
1508	EFJLNPQ						not used
1509	EFJMNPQ						not used
1510	EFKLNQP						not used
1511	EFKMNPQ						not used
1512	EFLMNPQ						not used
1513	EGHJNPQ						not used
1514	EGHKNPQ						not used
1515	EGHLNPQ						not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
1516	EGHMNPQ						not used
1517	EGJKNPQ						not used
1518	EGJLNPQ						not used
1519	EGJMNPQ						not used
1520	EGKLPQ						not used
1521	EGKMNPQ	113 or 114		RR1810	12 V	Transmitter Reed Filter Channel 81	for use with universal spare
1522	EGLMNPQ	112, 115, 116 or 134		RR2810	12 V	Receiver Reed Filter Channel 81	for use with universal spare
1523	EHJKNPQ	113 or 114		RR1820	12 V	Transmitter Reed Filter Channel 82	for use with universal spare
1524	EHJLNPQ	112, 115, 116 or 134		RR2820	12 V	Receiver Reed Filter Channel 82	for use with universal spare
1525	EHJMNPQ	113 or 114		RR1830	12 V	Transmitter Reed Filter Channel 83	for use with universal spare
1526	EHKLPQ	112, 115, 116 or 134		RR2830	12 V	Receiver Reed Filter Channel 83	for use with universal spare
1527	EHKMNPQ	113 or 114		RR1840	12 V	Transmitter Reed Filter Channel 84	for use with universal spare
1528	EHLMNPQ	112, 115, 116 or 134		RR2840	12 V	Receiver Reed Filter Channel 84	for use with universal spare
1529	EJKLPQ	113 or 114		RR1850	12 V	Transmitter Reed Filter Channel 85	for use with universal spare
1530	EJKMNPQ	112, 115, 116 or 134		RR2850	12 V	Receiver Reed Filter Channel 85	for use with universal spare
1531	EJLMNPQ	113 or 114		RR1860	12 V	Transmitter Reed Filter Channel 86	for use with universal spare
1532	EKLMNPQ	112, 115, 116 or 134		RR2860	12 V	Receiver Reed Filter Channel 86	for use with universal spare
1533	FGHJLPQ	113 or 114		RR1870	12 V	Transmitter Reed Filter Channel 87	for use with universal spare

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
1534	FGHKLPQ	112, 115, 116 or 134		RR2870	12 V	Receiver Reed Filter Channel 87	for use with universal spare
1535	FGJKLPQ	113 or 114		RR1880	12 V	Transmitter Reed Filter Channel 88	for use with universal spare
1536	FHJKLPQ	112, 115, 116 or 134		RR2880	12 V	Receiver Reed Filter Channel 88	for use with universal spare
1537	FGHJMPQ	113 or 114		RR1890	12 V	Transmitter Reed Filter Channel 89	for use with universal spare
1538	FGHKMPQ	112, 115, 116 or 134		RR2890	12 V	Receiver Reed Filter Channel 89	for use with universal spare
1539	FGHLMPQ	113 or 114		RR1900	12 V	Transmitter Reed Filter Channel 90	for use with universal spare
1540	FGJKMPQ	112, 115, 116 or 134		RR2900	12 V	Receiver Reed Filter Channel 90	for use with universal spare
1541	FGJLMPQ	113 or 114		RR1910	12 V	Transmitter Reed Filter Channel 91	for use with universal spare
1542	FGKLPQ	112, 115, 116 or 134		RR2910	12 V	Receiver Reed Filter Channel 91	for use with universal spare
1543	FHJKMPQ	113 or 114		RR1920	12 V	Transmitter Reed Filter Channel 92	for use with universal spare
1544	FHJLMPQ	112, 115, 116 or 134		RR2920	12 V	Receiver Reed Filter Channel 92	for use with universal spare
1545	FHKLMPQ	113 or 114		RR1930	12 V	Transmitter Reed Filter Channel 93	for use with universal spare
1546	FJKLMPQ						not used
1547	FGHJNPQ						not used
1548	FGHKNPQ						not used
1549	FGHLNPQ						not used
1550	FGHMNPQ						not used
1551	FGJKNPQ						not used
1552	FGJLNPQ						not used
1553	FGJMNPQ						not used
1554	FGKLPQ						not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
1555	FGKMNPQ							not used
1556	FGLMNPQ							not used
1557	FHJKNPQ							not used
1558	FHJLNPQ							not used
1559	FHJMNPQ							not used
1560	FHKLNPQ							not used
1561	FHKMNPQ							not used
1562	FHLMNPQ							not used
1563	FJKLNPQ							not used
1564	FJKMNPQ							not used
1565	FJLMNPQ							not used
1566	FKLMNPQ							not used
1567	GHJKLPQ							not used
1568	GHJKMPQ							not used
1569	GHJLMPQ							not used
1570	GHJKMPQ							not used
1571	GJKLMPQ							not used
1572	GHJKMPQ							not used
1573	GHJLNPQ							not used
1574	GHJMNPQ							not used
1575	GHKLNPQ							not used
1576	GHKMNPQ							not used
1577	GHLMNPQ							not used
1578	GJKLNPQ							not used
1579	GJKLNPQ							not used
1580	GJLMNPQ							not used
1581	GKLMNPQ							not used
1582	HJKLMPQ							not used
1583	HJKLNPQ							not used
1584	HJKMNPQ							not used
1585	HJLMNPQ							not used
1586	HKLMNPQ							not used
1587	JKLMNPQ							not used
1588 to 6000	no code							
6001	ABCDEF						Reset Counter for TEMPL 32	for Standard Elektrik Lorenz (SEL) Axle Counter
6002	ABCDEG	262	2 c/o / 3 c/o			24 V	Wheel Detector Control Unit (FREDDY)	for Flange Reading Equipment Designed in York
6003	ABCDEH	262	2 c/o / 3 c/o			12 V	Wheel Detector Control Unit (FREDDY)	for Flange Reading Equipment Designed in York
6004	ABCDEJ							not used
6005	ABCDEK							not used
6006	ABCDFG							not used
6007	ABCDFH							not used
6008	ABCDFJ							not used
6009	ABCDFK							not used
6010	ABCDGH							not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
6011	ABCDGJ	205			XR1	99-115/ 24 V 3.5 W	Transformer-Rectifier Unit	1 µF cable capacity immunity
6012	ABCDGK	123			XR1	110/50 V 8 W	Transformer-Rectifier Unit	(obsolete)
6013	ABCDHJ	123			XR1	110/50 V 4 W	Transformer-Rectifier Unit	(obsolete)
6014	ABCDHK	123			XR1	99-115/ 50-60 V 15 W	Transformer-Rectifier Unit	
6015	ABCDJK	123			XR1	99-115/ 50-60 V 3.5 W	Transformer-Rectifier Unit	1 µF cable capacity immunity
		136			XR1	99-125/ 50 V 3.5 W	Transformer-Rectifier Unit	
6016	ABCEFG	123			XR1	110/28 V 4 W	Transformer-Rectifier Unit	(obsolete)
6017	ABCEFH	135			XR1	110/24 V 4 W	Transformer-Rectifier Unit	(obsolete)
6018	ABCEFJ	204			XR1	110/24 V 4 W	Transformer-Rectifier Unit	(obsolete)
6019	ABCEFK	137				110/50 V 2.63 W	A.C./D.C. Converter Unit	(obsolete)
6020	ABCEGH							not used
6021	ABCEGJ							not used
6022	ABCEGK							not used
6023	ABCEHJ							not used
6024	ABCEHK							not used
6025	ABCEJK	138	16F		N5	50 V	D.C. Neutral Line Relay	with Elkonite contacts
6026	ABCFGH	138	16F		NA2	50 V	A.C. Immune D.C. Neutral Line Relay	with Elkonite contacts
6027	ABCFGJ	139	4MF 4F 4B		NA2	50 V	A.C. Immune D.C. Neutral Line Relay	with 4 Elkonite contacts
6028	ABCFGK							not used
6029	ABCFHJ							not used
6030	ABCFHK							not used
6031	ABCFJK							not used
6032	ABCGHJ							not used
6033	ABCGHK							not used
6034	ABCGJK							not used
6035	ABCHJK							not used
6036	ABDEFG							not used
6037	ABDEFH							not used
6038	ABDEFJ							not used
6039	ABDEFK							not used
6040	ABDEGH							not used
6041	ABDEGJ	140	1F 1B / 1F 1B		R6	1.3 A	Twin A.C. Relay Unit	for filament changeover of two colour light signals
6042	ABDEGK	141	2F		R7	50 V	D.C. Relay Unit	for detecting & indicating the state of filament changeover relays in pin code 6041 unit

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
6043	ABDEHJ	142	2F 1HB / 3F		R10	1.0 A / 0.4 A	Twin Filament Proving Relay Unit	
6044	ABDEHK	143			R13	45 W	Resistor Unit	
6045	ABDEJK	142	2F 1HB / 3F		R10	0.8 A / 0.4 A	Twin Filament Proving Relay Unit	
6046	ABDFGH	110	1F 3B	BR 949 [36]	CJ1	24 V	Slow Operate Electronic Timer (6-9s)	(for non-vital use)
6047	ABDFGJ	110	1F 3B	BR 949 [36]	CJ1	50 V	Slow Operate Electronic Timer (6-9s)	two variants (both for non-vital use) (time delay not covered by specification)
		110	1F 3B	(BR 949) [36]	CJ1	50 V	Slow Operate Electronic Timer (12s)	
		251	3B		SU		Geographical Shorting Unit	
6048	ABDFGK							not used
6049	ABDFHJ							not used
6050	ABDFHK							not used
6051	ABDFJK							not used
6052	ABDGHJ							not used
6053	ABDGHK							not used
6054	ABDGJK							not used
6055	ABDHJK							not used
6056	ABEFGH							not used
6057	ABEFGJ							not used
6058	ABEFGK	144	3 c/o / 3c/o		R3	50 V	Twin Relay Unit	for use with pin code 6059 unit
6059	ABEFHJ	145			R4	50 V	Resistor-Capacitor Unit	
6060	ABEFHK	146			R5	12 V	Resistor-Capacitor Unit	
6061	ABEFJK	147	4c/o		R8	50 V	Time Delay Unit (4.5-9.6s)	PO 3000 relay with resistor-capacitor
6062	ABEGHJ	148			R9	50 V	Diode Unit	for use in Westpac Mk 2 (for blocking D.C. feeds) variant with zener diodes
		148			R9	50 V	Diode Unit	
6063	ABEGHK	39			R12	60 Ω	Resistor-Diode Unit	
		39			R12	190 Ω	Resistor-Diode Unit	
		221			R12	3×20 kΩ	Resistor Unit	
		222			R12	2×20 kΩ / 1×190 Ω	Resistor Unit	
6064	ABEGJK							not used
6065	ABEHJK							not used
6066	ABFGHJ							not used
6067	ABFGHK							not used
6068	ABFGJK							not used
6069	ABFHJK							not used
6070	ABGHJK							not used
6071	ACDEFG							not used
6072	ACDEFH							not used
6073	ACDEFJ							not used
6074	ACDEFK							not used
6075	ACDEGH							not used
6076	ACDEGJ							not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
6077	ACDEGK						not used
6078	ACDEHJ						not used
6079	ACDEHK						not used
6080	ACDEJK						not used
6081	ACDFGH						not used
6082	ACDFGJ						not used
6083	ACDFGK						not used
6084	ACDFHJ						not used
6085	ACDFHK						not used
6086	ACDFJK						not used
6087	ACDGHJ						not used
6088	ACDGHK						not used
6089	ACDGJK						not used
6090	ACDHJK						not used
6091	ACEFGH						not used
6092	ACEFGJ						not used
6093	ACEFGK						not used
6094	ACEFHJ						not used
6095	ACEFHK						not used
6096	ACEFJK						not used
6097	ACEGHJ						not used
6098	ACEGHK						not used
6099	ACEGJK						not used
6100	ACEHJK						not used
6101	ACFGHJ						not used
6102	ACFGHK						not used
6103	ACFGJK						not used
6104	ACFHJK						not used
6105	ACGHJK						not used
6106	ADEFGH						not used
6107	ADEFGJ						not used
6108	ADEFGK						not used
6109	ADEFHJ						not used
6110	ADEFHK						not used
6111	ADEFJK						not used
6112	ADEGHJ						not used
6113	ADEGHK						not used
6114	ADEGJK						not used
6115	ADEHJK						not used
6116	ADFGHJ						not used
6117	ADFGHK						not used
6118	ADFGJK						not used
6119	ADFHJK						not used
6120	ADGHJK						not used
6121	Aefghj						not used
6122	Aefghk						not used
6123	Aefgjk						not used
6124	Aefhjk						not used
6125	AEGHJK						not used
6126	AFGHJK						not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
6127	BCDEFG						not used
6128	BCDEFH						not used
6129	BCDEFJ						not used
6130	BCDEFK						not used
6131	BCDEGH						not used
6132	BCDEGJ						not used
6133	BCDEGK						not used
6134	BCDEHJ						not used
6135	BCDEHK						not used
6136	BCDEJK						not used
6137	BCDFGH						not used
6138	BCDFGJ						not used
6139	BCDFGK						not used
6140	BCDFGJ						not used
6141	BCDFHK						not used
6142	BCDFJK						not used
6143	BCDGHJ						not used
6144	BCDGHK						not used
6145	BCDGJK						not used
6146	BCDHJK						not used
6147	BCEFGH						not used
6148	BCEFGJ						not used
6149	BCEFGK						not used
6150	BCEFHJ						not used
6151	BCEFHK						not used
6152	BCEFJK						not used
6153	BCEGHJ						not used
6154	BCEGHK						not used
6155	BCEGJK						not used
6156	BCEHJK						not used
6157	BCFGHJ						not used
6158	BCFGHK						not used
6159	BCFGJK						not used
6160	BCFHJK						not used
6161	BCGHJK						not used
6162	BDEFGH						not used
6163	BDEFGJ						not used
6164	BDEFGK						not used
6165	BDEFHJ						not used
6166	BDEFHK						not used
6167	BDEFJK						not used
6168	BDEGHJ						not used
6169	BDEGHK						not used
6170	BDEGJK						not used
6171	BDEHJK						not used
6172	BDFGHJ						not used
6173	BDFGHK						not used
6174	BDFGJK						not used
6175	BDFHJK						not used
6176	BDGHJK						not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
6177	BEFGHJ						not used
6178	BEFGHK						not used
6179	BEFGJK						not used
6180	BEFHJK						not used
6181	BEGHJK						not used
6182	BFGHJK						not used
6183	CDEFGH						not used
6184	CDEFGJ						not used
6185	CDEFGK						not used
6186	CDEFHJ						not used
6187	CDEFHK						not used
6188	CDEFJK						not used
6189	CDEGHJ						not used
6190	CDEGHK						not used
6191	CDEGJK						not used
6192	CDEHJK						not used
6193	CDFGHJ						not used
6194	CDFGHK						not used
6195	CDFGJK						not used
6196	CDFHJK						not used
6197	CDGHJK						not used
6198	CEFGHJ						not used
6199	CEFGHK						not used
6200	CEFGJK						not used
6201	CEFHJK						not used
6202	CEGHJK						not used
6203	CFGHJK						not used
6204	DEFGHJ						not used
6205	DEFGHK						not used
6206	DEFGJK						not used
6207	DEFHJK						not used
6208	DEGHJK						not used
6209	DFGHJK						not used
6210	EFGHJK				50 V 12 V	PO Type Relay Unit PO Type Relay Unit	two voltages (both for non-vital use)
6211 to 7000	no code						
7001	ACEFGNQ						not used
7002	ACEFHNQ						not used
7003	ACEFJNQ						not used
7004	ACEFKNQ						not used
7005	ACEFLNQ						not used
7006	ACEFMNQ						not used
7007	ACEGHNQ						not used
7008	ACEGJNQ						not used
7009	ACEGKNQ						not used
7010	ACEGLNQ						not used
7011	ACEGMNQ						not used
7012	ACEHJNQ						not used
7013	ACEHKNQ						not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
7014	ACEHLNQ						not used
7015	ACEHMNQ						not used
7016	ACEJKNQ						not used
7017	ACEJLNQ						not used
7018	ACEJMNQ						not used
7019	ACEKLNQ						not used
7020	ACEKMNQ						not used
7021	ACELMNQ						not used
7022	ACF-GHNQ						not used
7023	ACFGJNQ						not used
7024	ACFGKNQ						not used
7025	ACFGLNQ						not used
7026	ACFGMNQ						not used
7027	ACFHJNQ						not used
7028	ACFHKNQ						not used
7029	ACFHLNQ						not used
7030	ACFHMNQ						not used
7031	ACFJKNQ						not used
7032	ACFJLNQ						not used
7033	ACFJMNQ						not used
7034	ACFKLNQ						not used
7035	ACFKMNQ						not used
7036	ACFLMNQ						not used
7037	ACGHJNQ						not used
7038	ACGHKNQ						not used
7039	ACGHLNQ						not used
7040	ACGHMNQ						not used
7041	ACGJKNQ						not used
7042	ACGJLNQ						not used
7043	ACGJMNQ						not used
7044	ACGKLNQ						not used
7045	ACGKMNQ						not used
7046	ACGLMNQ						not used
7047	ACHJKNQ						not used
7048	ACHJLNQ						not used
7049	ACHJMNQ						not used
7050	ACHKLNQ						not used
7051	ACHKMNQ						not used
7052	ACHLMNQ						not used
7053	ACJKNQ						not used
7054	ACJKMNQ						not used
7055	ACJLMNQ						not used
7056	ACK-LMNQ						not used
7057	ADEFGQ						not used
7058	ADEFHLQ						not used
7059	ADEFJLQ						not used
7060	ADEFKLQ						not used
7061	ADE-GHLQ	150		RR3010	12 V	Transmitter Reed Channel 01	

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
7062	ADEGJLQ						not used
7063	ADEGKLQ	150		RR3020	12 V	Transmitter Reed Channel 02	
7064	ADEHJLQ						not used
7065	ADEHKLQ	150		RR3030	12 V	Transmitter Reed Channel 03	
7066	ADEJKLQ						not used
7067	ADFGHLQ	150		RR3040	12 V	Transmitter Reed Channel 04	
7068	ADFGJLQ						not used
7069	ADFGKLQ	150		RR3050	12 V	Transmitter Reed Channel 05	
7070	ADFHJLQ						not used
7071	ADFHKLQ	150		RR3060	12 V	Transmitter Reed Channel 06	
7072	ADFJKLQ						not used
7073	ADGHJLQ	150		RR3070	12 V	Transmitter Reed Channel 07	
7074	ADGJKLQ						not used
7075	ADGJKLQ	150		RR3080	12 V	Transmitter Reed Channel 08	
7076	ADHJKLQ						not used
7077	ADEFGMQ	150		RR3090	12 V	Transmitter Reed Channel 09	
7078	ADEFHMQ						not used
7079	ADEFJMQ	150		RR3100	12 V	Transmitter Reed Channel 10	
7080	ADEFKMQ						not used
7081	ADE-FLMQ	150		RR3110	12 V	Transmitter Reed Channel 11	
7082	ADE-GHMQ						not used
7083	ADE-GJMQ	150		RR3120	12 V	Transmitter Reed Channel 12	
7084	ADE-GKMQ						not used
7085	ADE-GLMQ	150		RR3130	12 V	Transmitter Reed Channel 13	
7086	ADE-HJMQ						not used
7087	ADE-HKMQ	150		RR3140	12 V	Transmitter Reed Channel 14	
7088	ADE-HLMQ						not used
7089	ADE-JKMQ	150		RR3150	12 V	Transmitter Reed Channel 15	
7090	ADEJLMQ						not used
7091	ADEKLMQ	150		RR3160	12 V	Transmitter Reed Channel 16	
7092	ADF-GHMQ						not used
7093	ADFGJMQ	150		RR3170	12 V	Transmitter Reed Channel 17	
7094	ADFGKMQ						not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
7095	ADFGLMQ	150		RR3180	12 V	Transmitter Reed Channel 18	
7096	ADFHJMQ						not used
7097	ADFHKMQ	150		RR3190	12 V	Transmitter Reed Channel 19	
7098	ADFHLMQ						not used
7099	ADFJKMQ	150		RR3200	12 V	Transmitter Reed Channel 20	
7100	ADFJLMQ						not used
7101	ADFKLMQ	150		RR3210	12 V	Transmitter Reed Channel 21	
7102	ADGHJMQ						not used
7103	ADGHKMQ	150		RR3220	12 V	Transmitter Reed Channel 22	
7104	ADGHLMQ						not used
7105	ADGJKMQ	150		RR3230	12 V	Transmitter Reed Channel 23	
7106	ADGJLMQ						not used
7107	ADGKLMQ	150		RR3240	12 V	Transmitter Reed Channel 24	
7108	ADHJKMQ						not used
7109	ADHJLMQ	150		RR3250	12 V	Transmitter Reed Channel 25	
7110	ADHKLMQ						not used
7111	ADJKLMQ	150		RR3260	12 V	Transmitter Reed Channel 26	
7112	ADEFGNQ						not used
7113	ADEFHNQ	150		RR3270	12 V	Transmitter Reed Channel 27	
7114	ADEFJNQ						not used
7115	ADEFKNQ	150		RR3280	12 V	Transmitter Reed Channel 28	
7116	ADEFLNQ						not used
7117	ADEFMNQ	150		RR3290	12 V	Transmitter Reed Channel 29	
7118	ADE-GHNQ						not used
7119	ADEGJNQ	150		RR3300	12 V	Transmitter Reed Channel 30	
7120	ADE-GKNQ						not used
7121	ADE-GLNQ	150		RR3310	12 V	Transmitter Reed Channel 31	
7122	ADE-GMNQ						not used
7123	ADEHJNQ	150		RR3320	12 V	Transmitter Reed Channel 32	
7124	ADE-HKNQ						not used
7125	ADE-HLNQ	150		RR3330	12 V	Transmitter Reed Channel 33	
7126	ADE-HLMQ						not used
7127	ADEJKNQ	150		RR3340	12 V	Transmitter Reed Channel 34	

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
7128	ADEJLNQ						not used
7129	ADE-JMNQ	150		RR3350	12 V	Transmitter Reed Channel 35	
7130	ADEKLNQ						not used
7131	ADEKMNQ	150		RR3360	12 V	Transmitter Reed Channel 36	
7132	ADELMNQ						not used
7133	ADF-GHNQ	150		RR3370	12 V	Transmitter Reed Channel 37	
7134	ADFGJNQ						not used
7135	ADFGKNQ	150		RR3380	12 V	Transmitter Reed Channel 38	
7136	ADFGLNQ						not used
7137	ADFGMNQ	150		RR3390	12 V	Transmitter Reed Channel 39	
7138	ADFHJNQ						not used
7139	ADFHKNQ	150		RR3400	12 V	Transmitter Reed Channel 40	
7140	ADFHLNQ						not used
7141	ADFHMNQ	150		RR3410	12 V	Transmitter Reed Channel 41	
7142	ADFJKNQ						not used
7143	ADFJLNQ	150		RR3420	12 V	Transmitter Reed Channel 42	
7144	ADFJMNQ						not used
7145	ADFKLNQ	150		RR3430	12 V	Transmitter Reed Channel 43	
7146	ADFKMNQ						not used
7147	AD-FLMNQ	150		RR3440	12 V	Transmitter Reed Channel 44	
7148	ADGHJNQ						not used
7149	ADGHKNQ	150		RR3450	12 V	Transmitter Reed Channel 45	
7150	ADGHLNQ						not used
7151	ADGHMNQ	150		RR3460	12 V	Transmitter Reed Channel 46	
7152	ADGJKNQ						not used
7153	ADGJLNQ	150		RR3470	12 V	Transmitter Reed Channel 47	
7154	ADGJMNQ						not used
7155	ADGKLNQ	150		RR3480	12 V	Transmitter Reed Channel 48	
7156	ADGKMNQ						not used
7157	ADG-LMNQ	150		RR3490	12 V	Transmitter Reed Channel 49	
7158	ADHJKNQ						not used
7159	ADHJLNQ	150		RR3500	12 V	Transmitter Reed Channel 50	
7160	ADHJMNQ						not used
7161	ADHKLNQ	150		RR3510	12 V	Transmitter Reed Channel 51	
7162	ADHKMNQ						not used
7163	ADHLMNQ						not used
7164	ADJKLNQ						not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
7165	ADJKMNQ						not used
7166	ADJLMNQ						not used
7167	ADKLMNQ						not used
7168	AEFGHLQ						not used
7169	AEFGJLQ						not used
7170	AEFGKLQ						not used
7171	AEFHJLQ						not used
7172	AEFHKLQ						not used
7173	AEFJKLQ						not used
7174	AEGHJLQ						not used
7175	AEGHKLQ						not used
7176	AEGJKLQ						not used
7177	AEHJKLQ						not used
7178	AEF-GHMQ						not used
7179	AEFGJMQ						not used
7180	AEFGKMQ						not used
7181	AEFGLMQ						not used
7182	AEFHJMQ						not used
7183	AEFHKMQ						not used
7184	AEFHLMQ						not used
7185	AEFJKMQ						not used
7186	AEFJLMQ						not used
7187	AEFKLMQ						not used
7188	AE-GHJMQ						not used
7189	AE-GHKMQ						not used
7190	AE-GHLMQ						not used
7191	AE-GJKMQ						not used
7192	AEGJLMQ						not used
7193	AE-GKLMQ						not used
7194	AEHJKMQ						not used
7195	AEHJLMQ						not used
7196	AEHKLMQ						not used
7197	AEJKLMQ						not used
7198	AEF-GHNQ						not used
7199	AEFGJNQ						not used
7200	AEFGKNQ						not used
7201	AEFGLNQ						not used
7202	AEFGMNQ						not used
7203	AEFHJNQ						not used
7204	AEFHKNQ						not used
7205	AEFHLMQ						not used
7206	AEFHMNQ						not used
7207	AEFJKNQ						not used
7208	AEFJLNQ						not used
7209	AEFJMNQ						not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
7210	AEFKLNQ						not used
7211	AEFKMNQ						not used
7212	AE-FLMNQ						not used
7213	AEGHJNQ						not used
7214	AE-GHKNQ						not used
7215	AE-GHLNQ						not used
7216	AE-GHMNQ						not used
7217	AEGJKNQ						not used
7218	AEGJLNQ						not used
7219	AE-GJMNQ						not used
7220	AEGKLNQ						not used
7221	AE-GKMNQ	150		RR3810	12 V	Transmitter Reed Channel 81	
7222	AE-GLMNQ						not used
7223	AEHJKNQ	150		RR3820	12 V	Transmitter Reed Channel 82	
7224	AEHJLNQ						not used
7225	AEHJMNQ	150		RR3830	12 V	Transmitter Reed Channel 83	
7226	AEHKLNQ						not used
7227	AEHKMNQ	150		RR3840	12 V	Transmitter Reed Channel 84	
7228	AEHLMNQ						not used
7229	AEJKLNQ	150		RR3850	12 V	Transmitter Reed Channel 85	
7230	AEJKMNQ						not used
7231	AEJLMNQ	150		RR3860	12 V	Transmitter Reed Channel 86	
7232	AEKLMNQ						not used
7233	AFGHJLQ	150		RR3870	12 V	Transmitter Reed Channel 87	
7234	AFGHKLQ						not used
7235	AFGJKLQ	150		RR3880	12 V	Transmitter Reed Channel 88	
7236	AFHJKLQ						not used
7237	AF-GHJMQ	150		RR3890	12 V	Transmitter Reed Channel 89	
7238	AF-GHKMQ						not used
7239	AF-GHLMQ	150		RR3900	12 V	Transmitter Reed Channel 90	
7240	AFGJKMQ						not used
7241	AFGJLMQ	150		RR3910	12 V	Transmitter Reed Channel 91	
7242	AFGKLMQ						not used
7243	AFHJKMQ	150		RR3920	12 V	Transmitter Reed Channel 92	
7244	AFHJLMQ						not used
7245	AFHKLMQ						not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
7246	AFJKLMQ						not used
7247	AFGHJNQ						not used
7248	AF-GHKNQ						not used
7249	AFGHLNQ						not used
7250	AF-GHMNQ						not used
7251	AFGJKNQ						not used
7252	AFGJLNQ						not used
7253	AFGJMNQ						not used
7254	AFGKLNQ						not used
7255	AFGKMNQ						not used
7256	AFGLMNQ						not used
7257	AFHJKNQ						not used
7258	AFHJLNQ						not used
7259	AFHJMNQ						not used
7260	AFHKLNQ						not used
7261	AFHKMNQ						not used
7262	AFHLMNQ						not used
7263	AFJKLNQ						not used
7264	AFJKMNQ						not used
7265	AFJLMNQ						not used
7266	AFKLMNQ						not used
7267	AGHJKLQ						not used
7268	AGHJKMQ						not used
7269	AGHJLMQ						not used
7270	AGHKLMQ						not used
7271	AGJKLMQ						not used
7272	AGHJKNQ						not used
7273	AGHJLNQ						not used
7274	AGHJMNQ						not used
7275	AGHKLNQ						not used
7276	AGHKMNQ						not used
7277	AGHLMNQ						not used
7278	AHJKLNQ						not used
7279	AHJKMNQ						not used
7280	AHJLMNQ						not used
7281	AHKLMNQ						not used
7282	AHJKLMQ						not used
7283	AHJKLNQ						not used
7284	AHJKMNQ						not used
7285	AHJLMNQ	150		RR3990	12 V	Reed Transmitter Repeater Unit	
7286	AHKLMNQ						not used
7287	AJKLMNQ						not used
7288	no code						
to							
7300							
7301	ACEFGNPQ						not used
7302	ACEFHNPQ						not used
7303	ACEFJNPQ						not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
7304	ACEFKNPQ						not used
7305	ACE-FLNPQ						not used
7306	ACEFMNPQ						not used
7307	ACEGHNPQ						not used
7308	ACEGJNPQ						not used
7309	ACEGKNPQ						not used
7310	ACEGLNPQ						not used
7311	ACE-GMNPQ						not used
7312	ACEHJNPQ						not used
7313	ACEHKNPQ						not used
7314	ACEHLNPQ						not used
7315	ACE-HMNPQ						not used
7316	ACEJKNPQ						not used
7317	ACEJLNPQ						not used
7318	ACEJMNPQ						not used
7319	ACEKLNQP						not used
7320	ACE-KMNPQ						not used
7321	ACELMNPQ						not used
7322	ACF-GHNPQ						not used
7323	ACFGJNPQ						not used
7324	ACFGKNPQ						not used
7325	ACFGLNPQ						not used
7326	ACF-GMNPQ						not used
7327	ACFHJNPQ						not used
7328	ACFHKNPQ						not used
7329	ACFHLNPQ						not used
7330	ACF-HMNPQ						not used
7331	ACFJKNPQ						not used
7332	ACFJLNPQ						not used
7333	ACFJMNPQ						not used
7334	ACFKLNQP						not used
7335	ACF-KMNPQ						not used
7336	ACFLMNPQ						not used
7337	ACGHJNPQ						not used
7338	ACG-HKNPQ						not used
7339	ACGHLNPQ						not used
7340	ACG-HMNPQ						not used
7341	ACGJKNPQ						not used
7342	ACGJLNPQ						not used
7343	ACGJMNPQ						not used
7344	ACGKLNQP						not used
7345	ACG-KMNPQ						not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
7346	ACG-LMNPQ						not used
7347	ACHJKNPQ						not used
7348	ACHJLNPQ						not used
7349	ACH-JMNPQ						not used
7350	ACHKLNQP						not used
7351	ACH-KMNPQ						not used
7352	ACH-LMNPQ						not used
7353	ACJKLNQP						not used
7354	ACJKMNPQ						not used
7355	ACJLMNPQ						not used
7356	ACK-LMNPQ						not used
7357	ADEFGLPQ						not used
7358	ADEFHLPQ						not used
7359	ADEFJLPQ						not used
7360	APQ	150		RR3710 RR3720	12 V 12 V	Transmitter Reed Filter Channel 71 Transmitter Reed Filter Channel 72	Note: there is no configuration ADEFKLPQ (universal spares)
7361	ADE-GHLPQ	150		RR3010	12 V	Transmitter Reed Channel 01	for use with universal spare
7362	ADE-GJLPQ						not used
7363	ADE-GKLPQ	150		RR3020	12 V	Transmitter Reed Channel 02	for use with universal spare
7364	ADE-HJLPQ						not used
7365	ADE-HKLPQ	150		RR3030	12 V	Transmitter Reed Channel 03	for use with universal spare
7366	ADE-JKLPQ						not used
7367	ADF-GHLPQ	150		RR3040	12 V	Transmitter Reed Channel 04	for use with universal spare
7368	ADFGJLPQ						not used
7369	ADFGKLPQ	150		RR3050	12 V	Transmitter Reed Channel 05	for use with universal spare
7370	ADFHJLPQ						not used
7371	ADFHKLPQ	150		RR3060	12 V	Transmitter Reed Channel 06	for use with universal spare
7372	ADFJKLPQ						not used
7373	ADGHJLPQ	150		RR3070	12 V	Transmitter Reed Channel 07	for use with universal spare
7374	ADGJKLPQ						not used
7375	ADGJKLPQ	150		RR3080	12 V	Transmitter Reed Channel 08	for use with universal spare
7376	ADHJKLPQ						not used
7377	ADE-FGMPQ	150		RR3090	12 V	Transmitter Reed Channel 09	for use with universal spare
7378	ADE-FHMPQ						not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
7379	ADEFJMPQ	150		RR3100	12 V	Transmitter Reed Channel 10	for use with universal spare
7380	ADEFKMPQ						not used
7381	ADE-FLMPQ	150		RR3110	12 V	Transmitter Reed Channel 11	for use with universal spare
7382	ADE-GHMPQ						not used
7383	ADE-GJMPQ	150		RR3120	12 V	Transmitter Reed Channel 12	for use with universal spare
7384	ADE-GKMPQ						not used
7385	ADE-GLMPQ	150		RR3130	12 V	Transmitter Reed Channel 13	for use with universal spare
7386	ADE-HJMPQ						not used
7387	ADE-HKMPQ	150		RR3140	12 V	Transmitter Reed Channel 14	for use with universal spare
7388	ADE-HLMPQ						not used
7389	ADE-JKMPQ	150		RR3150	12 V	Transmitter Reed Channel 15	for use with universal spare
7390	ADE-JLMPQ						not used
7391	ADEKLMPQ	150		RR3160	12 V	Transmitter Reed Channel 16	for use with universal spare
7392	ADF-GHMPQ						not used
7393	ADFGJMPQ	150		RR3170	12 V	Transmitter Reed Channel 17	for use with universal spare
7394	ADF-GKMPQ						not used
7395	ADFGJLMPQ	150		RR3180	12 V	Transmitter Reed Channel 18	for use with universal spare
7396	ADFHJMPQ						not used
7397	ADF-HKMPQ	150		RR3190	12 V	Transmitter Reed Channel 19	for use with universal spare
7398	ADFHJLMPQ						not used
7399	ADFJKMPQ	150		RR3200	12 V	Transmitter Reed Channel 20	for use with universal spare
7400	ADFJLMPQ						not used
7401	ADFKLMPQ	150		RR3210	12 V	Transmitter Reed Channel 21	for use with universal spare
7402	ADG-HJMPQ						not used
7403	ADG-HKMPQ	150		RR3220	12 V	Transmitter Reed Channel 22	for use with universal spare
7404	ADGHLM-PQ						not used
7405	ADG-JKMPQ	150		RR3230	12 V	Transmitter Reed Channel 23	for use with universal spare
7406	ADGJLMPQ						not used
7407	ADG-KLMPQ	150		RR3240	12 V	Transmitter Reed Channel 24	for use with universal spare
7408	ADH-JKMPQ						not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
7409	ADHJLMPQ	150		RR3250	12 V	Transmitter Reed Channel 25	for use with universal spare
7410	ADH-KLMPQ						not used
7411	ADJKLMPQ	150		RR3260	12 V	Transmitter Reed Channel 26	for use with universal spare
7412	ADEFGNPQ						not used
7413	ADEFHNPQ	150		RR3270	12 V	Transmitter Reed Channel 27	for use with universal spare
7414	ADEFJNPQ						not used
7415	ADEFKNPQ	150		RR3280	12 V	Transmitter Reed Channel 28	for use with universal spare
7416	ADE-FLNPQ						not used
7417	ADE-FMNPQ	150		RR3290	12 V	Transmitter Reed Channel 29	for use with universal spare
7418	ADE-GHNPQ						not used
7419	ADE-GJNPQ	150		RR3300	12 V	Transmitter Reed Channel 30	for use with universal spare
7420	ADE-GKNPQ						not used
7421	ADE-GLNPQ	150		RR3310	12 V	Transmitter Reed Channel 31	for use with universal spare
7422	ADE-GMNPQ						not used
7423	ADE-HJNPQ	150		RR3320	12 V	Transmitter Reed Channel 32	for use with universal spare
7424	ADE-HKNPQ						not used
7425	ADE-HLNPQ	150		RR3330	12 V	Transmitter Reed Channel 33	for use with universal spare
7426	ADE-HLMPQ						not used
7427	ADE-JKNPQ	150		RR3340	12 V	Transmitter Reed Channel 34	for use with universal spare
7428	ADE-JLNPQ						not used
7429	ADE-JMNPQ	150		RR3350	12 V	Transmitter Reed Channel 35	for use with universal spare
7430	ADEKLNQP						not used
7431	ADE-KMNPQ	150		RR3360	12 V	Transmitter Reed Channel 36	for use with universal spare
7432	ADELMPNPQ						not used
7433	ADF-GHNPQ	150		RR3370	12 V	Transmitter Reed Channel 37	for use with universal spare
7434	ADFGJNPQ						not used
7435	ADFGKNPQ	150		RR3380	12 V	Transmitter Reed Channel 38	for use with universal spare
7436	ADFGLNQP						not used
7437	ADF-GMNPQ	150		RR3390	12 V	Transmitter Reed Channel 39	for use with universal spare
7438	ADFJHNPQ						not used
7439	ADFHKNPQ	150		RR3400	12 V	Transmitter Reed Channel 40	for use with universal spare
7440	ADFHLNPQ						not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
7441	ADF-HMNPQ	150		RR3410	12 V	Transmitter Reed Channel 41	for use with universal spare
7442	ADFJKNPQ						not used
7443	ADFJLNPQ	150		RR3420	12 V	Transmitter Reed Channel 42	for use with universal spare
7444	ADFJMNPQ						not used
7445	ADFKLNPQ	150		RR3430	12 V	Transmitter Reed Channel 43	for use with universal spare
7446	ADF-KMNPQ						not used
7447	AD-FLMNPQ	150		RR3440	12 V	Transmitter Reed Channel 44	for use with universal spare
7448	ADGHJNPQ						not used
7449	ADG-HKNPQ	150		RR3450	12 V	Transmitter Reed Channel 45	for use with universal spare
7450	ADGHLNPQ						not used
7451	ADG-HMNPQ	150		RR3460	12 V	Transmitter Reed Channel 46	for use with universal spare
7452	ADG-JKNPQ						not used
7453	ADGJLNPQ	150		RR3470	12 V	Transmitter Reed Channel 47	for use with universal spare
7454	ADG-JMNPQ						not used
7455	ADGKLPQ	150		RR3480	12 V	Transmitter Reed Channel 48	for use with universal spare
7456	ADG-KMNPQ						not used
7457	ADG-LMNPQ	150		RR3490	12 V	Transmitter Reed Channel 49	for use with universal spare
7458	ADHJKNPQ						not used
7459	ADHJLNPQ	150		RR3500	12 V	Transmitter Reed Channel 50	for use with universal spare
7460	ADH-JMNPQ						not used
7461	ADHKLPQ	150		RR3510	12 V	Transmitter Reed Channel 51	for use with universal spare
7462	ADH-KMNPQ						not used
7463	ADH-LMNPQ						not used
7464	ADJKLPQ						not used
7465	ADJ-KMNPQ						not used
7466	ADJLMNPQ						not used
7467	ADK-LMNPQ						not used
7468	AEF-GHLPQ						not used
7469	AEFGJLPQ						not used
7470	AEFGKLPQ						not used
7471	AEFHJLPQ						not used
7472	AEFHKLPQ						not used
7473	AEFJKLPQ						not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
7474	AEG-HJLPQ						not used
7475	AEG-HKLPQ						not used
7476	AEG-JKLPQ						not used
7477	AEHJKLPQ						not used
7478	AEF-GHMPQ						not used
7479	AEFGJMPQ						not used
7480	AEFGKMPQ						not used
7481	AEFGLMPQ						not used
7482	AEFHJMPQ						not used
7483	AEFHKMPQ						not used
7484	AEFHLMPQ						not used
7485	AEFJKMPQ						not used
7486	AEFJLMPQ						not used
7487	AEFKLMPQ						not used
7488	AEG-HJMPQ						not used
7489	AEG-HKMPQ						not used
7490	AEG-HLMPQ						not used
7491	AEG-JKMPQ						not used
7492	AEG-JLMPQ						not used
7493	AEG-KLMPQ						not used
7494	AEHJKMPQ						not used
7495	AEHJLMPQ						not used
7496	AEHKLMPQ						not used
7497	AEJKLMPQ						not used
7498	AEF-GHNPQ						not used
7499	AEFGJNPQ						not used
7500	AEFGKNPQ						not used
7501	AEFGLNPQ						not used
7502	AEF-GMNPQ						not used
7503	AEFHJNPQ						not used
7504	AEFHKNPQ						not used
7505	AEFHLPQ						not used
7506	AEF-HMNPQ						not used
7507	AEFJKNPQ						not used
7508	AEFJLNPQ						not used
7509	AEFJMNQ						not used
7510	AEFKLNPQ						not used
7511	AEFKMNPQ						not used
7512	AEF-LMNPQ						not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
7513	AEG-HJNPQ						not used
7514	AEG-HKNPQ						not used
7515	AEG-HLNPQ						not used
7516	AEG-HMNPQ						not used
7517	AEG-JKNPQ						not used
7518	AEG-JLNPQ						not used
7519	AEG-JMNPQ						not used
7520	AEG-KLNPQ						not used
7521	AEG-KMNPQ	150		RR3810	12 V	Transmitter Reed Channel 81	for use with universal spare
7522	AEG-LMNPQ						not used
7523	AEHJKNPQ	150		RR3820	12 V	Transmitter Reed Channel 82	for use with universal spare
7524	AEHJLNPQ						not used
7525	AEHJMNPQ	150		RR3830	12 V	Transmitter Reed Channel 83	for use with universal spare
7526	AEHKLNPQ						not used
7527	AEH-KMNPQ	150		RR3840	12 V	Transmitter Reed Channel 84	for use with universal spare
7528	AEH-LMNPQ						not used
7529	AEJKLNPQ	150		RR3850	12 V	Transmitter Reed Channel 85	for use with universal spare
7530	AEJKMNPQ						not used
7531	AEJLMNPQ	150		RR3860	12 V	Transmitter Reed Channel 86	for use with universal spare
7532	AEKLMNPQ						not used
7533	AFG-HJLPQ	150		RR3870	12 V	Transmitter Reed Channel 87	for use with universal spare
7534	AFG-HKLPQ						not used
7535	AFGJKLPQ	150		RR3880	12 V	Transmitter Reed Channel 88	for use with universal spare
7536	AFHJKLPQ						not used
7537	AFG-HJMPQ	150		RR3890	12 V	Transmitter Reed Channel 89	for use with universal spare
7538	AFG-HKMPQ						not used
7539	AFG-HLMPQ	150		RR3900	12 V	Transmitter Reed Channel 90	for use with universal spare
7540	AFGJKMPQ						not used
7541	AFGJLMPQ	150		RR3910	12 V	Transmitter Reed Channel 91	for use with universal spare
7542	AFGKLMPQ						not used
7543	AFHJKMPQ	150		RR3920	12 V	Transmitter Reed Channel 92	for use with universal spare
7544	AFHJLMPQ						not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
7545	AFHKLMPQ						not used
7546	AFJKLMPQ						not used
7547	AFG-HJNPQ						not used
7548	AFG-HKNPQ						not used
7549	AFG-HLNPQ						not used
7550	AFG-HMNPQ						not used
7551	AFGJKNPQ						not used
7552	AFGJLNPQ						not used
7553	AFGJMNPQ						not used
7554	AFGKLNQP						not used
7555	AFG-KMNPQ						not used
7556	AFGLMNPQ						not used
7557	AFHJKNPQ						not used
7558	AFHJLNPQ						not used
7559	AFHJMNPQ						not used
7560	AFHKLNPQ						not used
7561	AFH-KMNPQ						not used
7562	AFHLMNPQ						not used
7563	AFJKLNPQ						not used
7564	AFJKMNPQ						not used
7565	AFJLMNPQ						not used
7566	AFKLMNPQ						not used
7567	AGHJKLPQ						not used
7568	AGH-JKMPQ						not used
7569	AGH-JLMPQ						not used
7570	AGH-KLMPQ						not used
7571	AGJKLMPQ						not used
7572	AGH-JKNPQ						not used
7573	AGHJLNPQ						not used
7574	AGHJMNPQ						not used
7575	AGHKLNQP						not used
7576	AGH-KMNPQ						not used
7577	AGH-LMNPQ						not used
7578	AHJKLNPQ						not used
7579	AHJ-KMNPQ						not used
7580	AHJLMNPQ						not used
7581	AHK-LMNPQ						not used
7582	AHJKLMPQ						not used
7583	AHJKLNPQ						not used

Table 1 Pin codes allocated for GB mainline use and their associated arrangements

Pin code	Pin code configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
7584	AHJ-KMNPQ						not used
7585	AHJLMNPQ						not used
7586	AHK-LMNPQ						not used
7587	AJKLMNPQ						not used

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
-	FGM	231			CU1		16 Way Connector	for mounting components
S000	SABCEFG						Special for Test Set	for London Underground Limited (LUL)
S001	SABCD	175	10F 6B		N10	36 V	Neutral Relay	for trainborne use
S002	SABCE	183	14F 2B	(BR 966 F7) [8]	NHX1	100 V 125 Hz	A.C. Interface Relay for solid state interlockings	for LUL requires external rectifier
S003	SABCF	169	4Fp 5F 6B		LH1	50 V	Latched Relay with 4 palladium contacts	special for LUL jointless track circuits
S004	SABCG	9	8F 8B		NM1	24 V	Neutral Relay	silver to silver contacts for non-vital use
S005	SABCH	7	6F 6B		NM1	24 V	Neutral Relay	silver to silver contacts for non-vital use
S006	SABCJ	5	4F 4B		NM1	24 V	Neutral Relay	silver to silver contacts for non-vital use
S007	SABCK	74	4F 4B 2HF	(BR 966 F4) [26]	BCA1	12 V	Biased A.C. Immune Contactor	WBS allocated Australia
S008	SABDE	26	8F 4B		S2	24 V	Low Power Neutral Relay	WBS allocated Australia
S009	SABDF	74	4F 4B 2HF		NCM1	12 V	Neutral Contactor	with 4 metal back contacts (double allocated)
		74	4F 4B 2HF		NCM1	12 V	Neutral Contactor	WBS allocated Australia (with 8 metal contacts)
S010	SABDG	3	12F 4B	(BR 932) [7]	BA1	12 V	Biased A.C. Immune Relay	WBS allocated Australia
S011	SABDH	206	2HF		NCD1	12 V	Neutral Contactor	WBS allocated Australia (double wound)
S012	SABDJ	9	8F 8B	(BR 932) [7]	BA1	12 V	Biased A.C. Immune Relay	WBS allocated Australia
S013	SABDK	19	4F 4B / 4F 4B	(BR 961) [5]	BBA1	12 V	Twin Biased A.C. Immune Relay	WBS allocated Australia
		18	2F 2B / 2F 2B	(BR 961) [5]	BBA1	12 V	Twin Biased A.C. Immune Relay	
S014	SABEF	210			TD1	12 V 0.5 A load	Twin Slow Operate Electronic Timer (1-20s)	WBS allocated Australia (for non-vital use)
S015	SABEG	5	4F 4B		NM1	12 V	Neutral Relay	WBS allocated Australia (with Elkonite contacts)
S016	SABEH	216	2c/o		AC1	12/24 V	Charger Failed Detector	WBS allocated Australia (two ratings)
		216	2c/o		AC1	4 V	Charger Failed Detector	
S017	SABEJ							WBS allocated Australia
S018	SABEK							WBS allocated Spain
S019	SABFG							WBS allocated Spain
S020	SABFH							WBS allocated Spain
S021	SABFJ							WBS allocated Spain
S022	SABFK							WBS allocated Spain
S023	SABGH							WBS allocated Spain
S024	SABGJ							WBS allocated Spain
S025	SABGK							WBS allocated Spain

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
S026	SABHJ							WBS allocated Spain
S027	SABHK							WBS allocated Spain
S028	SABJK	180	4F 4B 1HF		NC10	110 V	Neutral Contactor	for trainborne use
S029	SACDE	26	8F 4B	(BR 966 F7) [8]	NHX1	100 V 33-125 Hz	A.C. Interface Relay for solid state interlockings	for LUL
S030	SACDF	159	4F 4B		ECX14	0.22 A	Slow Release A.C. Lamp Proving Relay	for double-pole lamps
S031	SACDG	19	4F 4B / 4F 4B		NN10	50 V	Twin Neutral Relay	for trainborne use
S032	SACDH	20	6F 2B / 6F 2B		NN10	50 V	Twin Neutral Relay	for trainborne use
S033	SACDJ	20	6F 2B / 6F 2B		NN10	110 V	Twin Neutral Relay	for trainborne use
S034	SACDK	37	4F		ECX15	0.087 A	Slow Release A.C. Lamp Proving Relay	
S035	SACEF	38	2F 2B		UCX2	0.35 A	A.C. Lamp Proving Relay	for junction indicators
S036	SACEG	198	2F 1B	(BR 946) [32]	RJ1	50 V	Timer (25s delay)	(capacitor-resistor network)
S037	SACEH	180	4F 4B 1HF		NC10	110 V	Neutral Contactor	for trainborne use
S038	SACEJ	186	4F 2B / 4F 2B		NNX1	12 V	Twin A.C. Relay	for LUL
S039	SACEK	43	2F	(BR 941) [15]	ECX16	0.4 A	Slow Release A.C. Lamp Proving Relay	for level crossing road lights
S040	SACFG	43	2F		BTA1	1.75 V	Biased A.C. Immune Track Relay	
S041	SACFH	57	1F 1B		MT3	110 V	Slow Operate A.C. Motor Timer (4.5s)	for LUL
S042	SACFJ	57	1F 1B		MT3	110 V	Slow Operate A.C. Motor Timer (15s)	for LUL
S043	SACFK	57	1F 1B		MT3	110 V	Slow Operate A.C. Motor Timer (60s)	for LUL
S044	SACGH	57	1F 1B		MT3	110 V	Slow Operate A.C. Motor Timer (2-30s)	for LUL
S045	SACGJ	57	1F 1B		MT3	110 V	Slow Operate A.C. Motor Timer (30-120s)	for LUL
S046	SACGK	42	4F 2B		ECX17	0.4 A	Slow Release A.C. Lamp Proving Relay	for single filament lamps
S047	SACHJ				EECX1			not manufactured
S048	SACHK	19	4F 4B / 4F 4B		NNM2	50 V	Twin Neutral Relay	with palladium contacts for non-vital use
S049	SACJK	164	2F 1B		F3	12 V	Sensitive Neutral Relay	for LUL
S050	SADEF	20	6F 2B / 6F 2B		NN10	40 V	Twin Neutral Relay	for trainborne use
S051	SADEG	181	4F 4B 2HF		NC10	36 V	Neutral Contactor	for trainborne use
S052	SADEH	182	2F 2B 4HF		NC11	36 V	Neutral Contactor	for trainborne use
S053	SADEJ	217			AJTC1	24 V	FS2500 Intermediate Receiver Amplifier	WBS allocated Australia
S054	SADEK	42	4F 2B		TM1	0.5 V 0.13 A	Neutral Track Relay	WBS allocated Australia (with metal back contacts)

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
S055	SADFG	82	6F 2B		SRA4	12 V	A.C. Immune Neutral Slow Release Relay	WBS allocated Australia (with extra slow release)
S056	SADFH	160	6B 2HF		BCA1	50 V	Biased A.C. Immune Contactor	WBS allocated Australia
S057	SADFJ	110	1F 3B	(BR 949) [36]	CJ1	50 V	Slow Operate Electronic Timer (14s)	WBS allocated Australia (for non-vital use)
S058	SADFK	37	4F	(BR 941) [15]	ECX19	0.135 A	Slow Release A.C. Lamp Proving Relay	WBS allocated Australia
S059	SADGH	38	2F 2B	(BR 942) [14]	UCX3	0.55 A	A.C. Lamp Proving Relay	WBS allocated Australia (for junction indicators)
S060	SADGJ		8MF 8MB		NAM1	50 V		WBS allocated Australia (with metal contacts)
S061	SADGK	74	4F 4B 2HF		NHXC1	110 V	A.C. Slow Release Contactor Relay	WBS allocated Australia (pin code 0102 allocated)
S062	SADHJ	38	2F 2B		UCX4	1.28 A	A.C. Lamp Proving Relay	WBS allocated Australia (for junction indicators)
S063	SADHK	162	2F 2B 2HF	(BR 943) [28]	BCA1	12 V	Biased A.C. Immune Contactor	
S064	SADJK		6F 1B		S3			WBS allocated India
S065	SAEFG		4F 1B		S3			WBS allocated India
S066	SAEFH		6F 2B		S3			WBS allocated India
S067	SAEFJ							WBS allocated South Africa
S068	SAEFK							WBS allocated South Africa
S069	SAEGH							WBS allocated South Africa
S070	SAEGJ							WBS allocated South Africa
S071	SAEGK							WBS allocated South Africa
S072	SAEHJ							WBS allocated South Africa
S073	SAEHK							WBS allocated South Africa
S074	SAEJK							WBS allocated South Africa
S075	SAFGH	182	2F 2B 4HF		NC11	80 V	Neutral Contactor	for trainborne use
S076	SAFGJ	57	1F 1B		MT3	110 V 33.3 Hz	Slow Operate A.C. Motor Timer (4.5s)	for LUL
S077	SAFGK	57	1F 1B		MT3	110 V 33.3 Hz	Slow Operate A.C. Motor Timer (15s)	for LUL
S078	SAFHJ	57	1F 1B		MT3	110 V 33.3 Hz	Slow Operate A.C. Motor Timer (60s)	for LUL
S079	SAFHK	57	1F 1B		MT3	110 V 33.3 Hz	Slow Operate A.C. Motor Timer (20s)	for LUL
S080	SAFJK	57	1F 1B		MT3	110 V 33.3 Hz	Slow Operate A.C. Motor Timer (120s)	for LUL
S081	SAGHJ	57	1F 1B		MT3	110 V 125 Hz	Slow Operate A.C. Motor Timer (4.5s)	for LUL
S082	SAGHK	57	1F 1B		MT3	110 V 125 Hz	Slow Operate A.C. Motor Timer (15s)	for LUL
S083	SAGJK	57	1F 1B		MT3	110 V 125 Hz	Slow Operate A.C. Motor Timer (60s)	for LUL

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
S084	SAHJK	57	1F 1B		MT3	110 V 125 Hz	Slow Operate A.C. Motor Timer (20s)	for LUL
S085	SBCDE	57	1F 1B		MT3	110 V 125 Hz	Slow Operate A.C. Motor Timer (120s)	for LUL
S086	SBCDF	169	4Fp 5F 6B		LH1	24 V	Latched Relay with 4 palladium contacts	special for LUL jointless track circuits
S087	SBCDG	180	4F 4B 1HF		NC10	50 V	Neutral Contactor	for trainborne use
S088	SBCDH	182	2F 2B 4HF		NC11	50 V	Neutral Contactor	for trainborne use
S089	SBCDJ	182	2F 2B 4HF		NC11	110 V	Neutral Contactor	for trainborne use
S090	SBCDK	57	1F 1B		MT3	110 V	Slow Operate A.C. Motor Timer (30s)	for LUL
S091	SBCEF	19	4F 4B / 4F 4B		NNS1	50 V	Twin Neutral Slow Acting Relay	
S092	SBCEG	220	6F 3B		SRA5	50 V	Neutral Slow Acting Relay	for use in VT1(SP) delay unit
S093	SBCEH	186	4F 2B / 4F 2B		NNX1	100 V 33.3 Hz	Twin A.C. Relay	for LUL
S094	SBCEJ	176 43	2F 2F		N11 N12	16.5 V 24.5 V	Neutral Relay Neutral Relay	for LUL tunnel telephones
S095	SBCEK	43 177	2F		N13 SUTT	0.011 A	Neutral Relay Shorting Unit	for LUL tunnel telephones
S096	SBCFG	207	4F 2B	(BR 942) [14]	UCX5	0.8 A A.C. 50 V D.C.	A.C. Lamp Proving Relay with D.C. Latching	for Thailand (flashing level crossing warning signal)
S097	SBCFH	76	4B 2HF		NCM1	12 V	Neutral Contactor	with metal back contacts
S098	SBCFJ	38	2F 2B		N3	0.06 A	D.C. Lamp Proving Relay	
S099	SBCFK							WBS allocated Australia
S100	SBCGH							WBS allocated Australia
S101	SBCGJ							WBS allocated Australia
S102	SBCGK							WBS allocated Australia
S103	SBCHJ							WBS allocated Australia
S104	SBCHK							WBS allocated Australia
S105	SBCJK							WBS allocated Australia
S106	SBDEF	219			RY		Capacitor/Resistor Unit	
S107	SBDEG	181	4F 4B 2HF		NC10	72 V	Neutral Contactor	for trainborne use
S108	SBDEH	20	6F 2B / 6F 2B		NN10	72 V	Twin Neutral Relay	for trainborne use
S109	SBDEJ	6	4F 4B	(BR 930) [2]	ND2	24 V (R1/ R2) 4 V (R3/ R4)	Neutral Relay	double wound
S110	SBDEK	9	8F 8B		N10	110 V	Neutral Relay	for trainborne use
S111	SBDFG	232			CU1		36 Way Connector	for mounting components
S112	SBDFH	9	8F 8B		N10	72 V	Neutral Relay	for trainborne use
S113	SBDFJ	42	4F 2B		ECX20	0.045 A	A.C. Lamp Proving Relay	for light-emitting diode (LED) signals
S114	SBDFK	86	2B / 1F 1B	(BR 947) [25]	MT2	50 V D.C. / 110 V A.C.	Slow Operate Motor Timer (4.5s delay)	
S115	SBDGH						SE FM PCB Relay	WBS allocated Australia for VLine
S116	SBDGJ							not used

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
S117	SBDGK						not used
S118	SBDHJ						not used
S119	SBDHK						not used
S120	SBDJK						not used
S121	SBEFG						not used
S122	SBEFH						not used
S123	SBEFJ						not used
S124	SBEFK						not used
S125	SBEGH						not used
S126	SBEGJ						not used
S127	SBEGK						not used
S128	SBEHJ						not used
S129	SBEHK						not used
S130	SBEJK						not used
S131	SBFGH						not used
S132	SBFGJ						not used
S133	SBFGK						not used
S134	SBFHJ						not used
S135	SBFHK						not used
S136	SBFJK						not used
S137	SBGHJ						not used
S138	SBGHK						not used
S139	SBGJK						not used
S140	SBHJK						not used
S141	SCDEF						not used
S142	SCDEG						not used
S143	SCDEH						not used
S144	SCDEJ						not used
S145	SCDEK						not used
S146	SCDFG						not used
S147	SCDFH						not used
S148	SCDFJ						not used
S149	SCDFK						not used
S150	SCDGH						not used
S151	SCDGJ						not used
S152	SCDGK						not used
S153	SCDHJ						not used
S154	SCDHK						not used
S155	SCDJK						not used
S156	SCEFG						not used
S157	SCEFH						not used
S158	SCEFJ						not used
S159	SCEFK						not used
S160	SCEGH						not used
S161	SCEGJ						not used
S162	SCEGK						not used
S163	SCEHJ						not used
S164	SCEHK						not used
S165	SCEJK						not used
S166	SCFGH						not used

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
S167	SCFGJ							not used
S168	SCFGK							not used
S169	SCFHJ							not used
S170	SCFHK							not used
S171	SCFJK							not used
S172	SCGHJ							not used
S173	SCGHK							not used
S174	SCGJK							not used
S175	SCHJK							not used
S176	SDEFG							not used
S177	SDEFH							not used
S178	SDEFJ							not used
S179	SDEFK							not used
S180	SDEGH							not used
S181	SDEGJ							not used
S182	SDEGK							not used
S183	SDEHJ							not used
S184	SDEHK							not used
S185	SDEJK							not used
S186	SDFGH							not used
S187	SDFGJ							not used
S188	SDFGK							not used
S189	SDFHJ							not used
S190	SDFHK							not used
S191	SDFJK							not used
S192	SDGHJ							not used
S193	SDGHK							not used
S194	SDGJK							not used
S195	SDHJK							not used
S196	SEFGH							not used
S197	SEFGJ							not used
S198	SEFGK							not used
S199	SEFHJ							not used
S200	SEFHK							not used
S201	SEFJK							not used
S202	SEGHJ							not used
S203	SEGHK							not used
S204	SEGJK							not used
S205	SEHJK							not used
S206	SFGHJ							not used
S207	SFGHK							not used
S208	SFGJK							not used
S209	SFHJK							not used
S210	SGHJK							not used
T001	TABCD						Electronic module	for Ford Electronics
T002	TABCE	3	12F 4B	(BR 930) [2]	N	24 V	Neutral Line Relay	low power coil (for Bombardier)
T003	TABDE	20	6F 2B / 6F 2B	(BR 960) [11]	NN	24 V	Twin Neutral Line Relay	low power coil (for Bombardier)
T004	TACDE						Electronic module	for Ford Electronics
T005	TABCF						Half Twin	for Bombardier

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
T006	TABEF	264			ET	50 V	Slow Operate Electronic Timer (1.5 - 190.5s)	Time delay configured by external strapping (for Bombardier)
T007	TADEF							for ItalThai
T008	TABCG							for Alstom
T009	TABFG						Electronic module	for Ford Electronics
T010	TAEFG							not used
T011	TABCH	43	2F	(BR 941) [15]	ECX	0.2 A	A.C. Lamp Proving Relay	special (for Ansaldo)
T012	TABGH				NNA		Twin A.C. Immune Neutral Relay (special)	not yet manufactured
T013	TAFGH				CA		A.C. Immune Contactor Relay (special)	not yet manufactured
T014	TABCJ	38	2F 2B	(BR 940) [16]	EC	4.55 A	D.C. Lamp Proving Relay	special (for Ansaldo)
T015	TABHJ	9	8F 8B	(BR 933) [10]	SR	24 V	Slow Release Relay	special (for Nieaf Smitt)
T016	TAGHJ	9	8F 8B	(BR 933) [10]	SR	48 V	Slow Release Relay	special (for Nieaf Smitt)
T017	TABCK						Track Relay	special (for Ansaldo)
T018	TABJK					24 V	Twin Relay	for Mors Smitt, France
T019	TAHJK					24 V	Twin Relay	for Mors Smitt, France
T020	TABCL							not used
T021	TABKL							not used
T022	TAJKL							not used
T023	TABCM					24 V	Twin Relay	for Mors Smitt, France
T024	TABLM					24 V	Twin Relay	for Mors Smitt, France
T025	TAKLM							not used
T026	TABDF							not used
T027	TABDG							not used
T028	TABDH							not used
T029	TABDJ							not used
T030	TABDK							not used
T031	TABEG							not used
T032	TABEH							not used
T033	TABEJ							not used
T034	TABEK							not used
T035	TABFH							not used
T036	TABFJ							not used
T037	TABFK							not used
T038	TABGJ							not used
T039	TABGK							not used
T040	TABHK							not used
T041	TACDF							not used
T042	TACDG							not used
T043	TACDH							not used
T044	TACDJ							not used
T045	TACDK							not used
T046	TACEF							not used
T047	TACEG							not used
T048	TACEH							not used
T049	TACEJ							not used

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
T050	TACEK						not used
T051	TACFG						not used
T052	TACFH						not used
T053	TACFJ						not used
T054	TACFK						not used
T055	TACGH						not used
T056	TACGJ						not used
T057	TACGK						not used
T058	TACHJ						not used
T059	TACHK						not used
T060	TACJK						not used
T061	TADEG						not used
T062	TADEH						not used
T063	TADEJ						not used
T064	TADEK						not used
T065	TADFG						not used
T066	TADFH						not used
T067	TADFJ						not used
T068	TADFK						not used
T069	TADGH						not used
T070	TADGJ						not used
T071	TADGK						not used
T072	TADHJ						not used
T073	TADHK						not used
T074	TADJK						not used
T075	TAEFH						not used
T076	TAEFJ						not used
T077	TAEFK						not used
T078	TAEGH						not used
T079	TAEGJ						not used
T080	TAEGK						not used
T081	TAEHJ						not used
T082	TAEHK						not used
T083	TAEJK						not used
T084	TAFGJ						not used
T085	TAFGK						not used
T086	TAFHJ						not used
T087	TAFHK						not used
T088	TAFJK						not used
T089	TAGHK						not used
T090	TAGJK						not used
T091	TBCDE						not used
T092	TBCDF						not used
T093	TBCDG						not used
T094	TBCDH						not used
T095	TBCDJ						not used
T096	TBCDK						not used
T097	TBCEF						not used
T098	TBCEG						not used
T099	TBCEH						not used

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
T100	TBCEJ						not used
T101	TBCEK						not used
T102	TBCFG						not used
T103	TBCFH						not used
T104	TBCFJ						not used
T105	TBCFK						not used
T106	TBCGH						not used
T107	TBCGJ						not used
T108	TBCGK						not used
T109	TBCHJ						not used
T110	TBCHK						not used
T111	TBCJK						not used
T112	TBDEF						not used
T113	TBDEG						not used
T114	TBDEH						not used
T115	TBDEJ						not used
T116	TBDEK						not used
T117	TBDFG						not used
T118	TBDFH						not used
T119	TBDFJ						not used
T120	TBDFK						not used
T121	TBDGH						not used
T122	TBDGJ						not used
T123	TBDGK						not used
T124	TBDHJ						not used
T125	TBDHK						not used
T126	TBDJK						not used
T127	TBEFG						not used
T128	TBEFH						not used
T129	TBEFJ						not used
T130	TBEFK						not used
T131	TBEGH						not used
T132	TBEGJ						not used
T133	TBEGK						not used
T134	TBEHJ						not used
T135	TBEHK						not used
T136	TBEJK						not used
T137	TBFGH						not used
T138	TBFGJ						not used
T139	TBFGK						not used
T140	TBFHJ						not used
T141	TBFHK						not used
T142	TBFJK						not used
T143	TBGHJ						not used
T144	TBGHK						not used
T145	TBGJK						not used
T146	TBHJK						not used
T147	TCDEF						not used
T148	TCDEG						not used
T149	TCDEH						not used

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
T150	TCDEJ						not used
T151	TCDEK						not used
T152	TCDFG						not used
T153	TCDFH						not used
T154	TCDFJ						not used
T155	TCDFK						not used
T156	TCDGH						not used
T157	TCDGJ						not used
T158	TCDGK						not used
T159	TCDHJ						not used
T160	TCDHK						not used
T161	TCDJK						not used
T162	TCEFG						not used
T163	TCEFH						not used
T164	TCEFJ						not used
T165	TCEFK						not used
T166	TCEGH						not used
T167	TCEGJ						not used
T168	TCEGK						not used
T169	TCEHJ						not used
T170	TCEHK						not used
T171	TCEJK						not used
T172	TCFGH						not used
T173	TCFGJ						not used
T174	TCFGK						not used
T175	TCFHJ						not used
T176	TCFHK						not used
T177	TCFJK						not used
T178	TCGHJ						not used
T179	TCGHK						not used
T180	TCGJK						not used
T181	TCHJK						not used
T182	TDEFG						not used
T183	TDEFH						not used
T184	TDEFJ						not used
T185	TDEFK						not used
T186	TDEGH						not used
T187	TDEGJ						not used
T188	TDEGK						not used
T189	TDEHJ						not used
T190	TDEHK						not used
T191	TDEJK						not used
T192	TDFGH						not used
T193	TDFGJ						not used
T194	TDFGK						not used
T195	TDFHJ						not used
T196	TDFHK						not used
T197	TDFJK						not used
T198	TDGHJ						not used
T199	TDGHK						not used

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
T200	TDGJK						not used
T201	TDHJK						not used
T202	TEFGH						not used
T203	TEFGJ						not used
T204	TEFGK						not used
T205	TEFHJ						not used
T206	TEFHK						not used
T207	TEFJK						not used
T208	TEGHJ						not used
T209	TEGHK						not used
T210	TEGJK						not used
T211	TEHJK						not used
T212	TFGHJ						not used
T213	TFGHK						not used
T214	TFGJK						not used
T215	TFHJK						not used
T216	TGHJK						not used
W001	WABCD						not used
W002	WABCE						not used
W003	WABCF						not used
W004	WABCG						not used
W005	WABCH						not used
W006	WABCI						not used
W007	WABCK						not used
W008	WABDE						not used
W009	WABDF						not used
W010	WABDG						not used
W011	WABDH						not used
W012	WABDJ						not used
W013	WABDK						not used
W014	WABEF						not used
W015	WABEG						not used
W016	WABEH						not used
W017	WABEJ						not used
W018	WABEK						not used
W019	WABFG						not used
W020	WABFH						not used
W021	WABFI						not used
W022	WABFK						not used
W023	WABGH						not used
W024	WABGJ						not used
W025	WABGK						not used
W026	WABHJ						not used
W027	WABHK						not used
W028	WABJK						not used
W029	WACDE						not used
W030	WACDF						not used
W031	WACDG						not used
W032	WACDH						not used
W033	WACDJ						not used

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
W034	WACDK						not used
W035	WACEF						not used
W036	WACEG						not used
W037	WACEH						not used
W038	WACEJ						not used
W039	WACEK						not used
W040	WACFG						not used
W041	WACFH						not used
W042	WACFJ						not used
W043	WACFK						not used
W044	WACGH						not used
W045	WACGJ						not used
W046	WACGK						not used
W047	WACHJ						not used
W048	WACHK						not used
W049	WACJK						not used
W050	WADEF						not used
W051	WADEG						not used
W052	WADEH						not used
W053	WADEJ						not used
W054	WADEK						not used
W055	WADFG						not used
W056	WADFH						not used
W057	WADFJ						not used
W058	WADFK						not used
W059	WADGH						not used
W060	WADGJ						not used
W061	WADGK						not used
W062	WADHJ						not used
W063	WADHK						not used
W064	WADJK						not used
W065	WAEFG						not used
W066	WAEFH						not used
W067	WAEFJ						not used
W068	WAEFK						not used
W069	WAEGH						not used
W070	WAEGJ						not used
W071	WAEGK						not used
W072	WAEHJ						not used
W073	WAEHK						not used
W074	WAEJK						not used
W075	WAFGH						not used
W076	WAFGJ						not used
W077	WAFGK						not used
W078	WAFHJ						not used
W079	WAFHK						not used
W080	WAFJK						not used
W081	WAGHJ						not used
W082	WAGHK						not used
W083	WAGJK						not used

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
W084	WAHJK						not used
W085	WBCDE						not used
W086	WBCDF						not used
W087	WBCDG						not used
W088	WBCDH						not used
W089	WBCDJ						not used
W090	WBCDK						not used
W091	WBCEF						not used
W092	WBCEG						not used
W093	WBCEH						not used
W094	WBCEJ						not used
W095	WBCEK						not used
W096	WBCFG						not used
W097	WBCFH						not used
W098	WBCFJ						not used
W099	WBCFK						not used
W100	WBCGH						not used
W101	WBCGJ						not used
W102	WBCGK						not used
W103	WBCHJ						not used
W104	WBCHK						not used
W105	WBCJK						not used
W106	WBDEF						not used
W107	WBDEG						not used
W108	WBDEH						not used
W109	WBDEJ						not used
W110	WBDEK						not used
W111	WBDFG						not used
W112	WBDFH						not used
W113	WBDFJ						not used
W114	WBDFK						not used
W115	WBDGH						not used
W116	WBDGJ						not used
W117	WBDGK						not used
W118	WBDHJ						not used
W119	WBDHK						not used
W120	WBDJK						not used
W121	WBEFG						not used
W122	WBEFH						not used
W123	WBEFJ						not used
W124	WBEFK						not used
W125	WBEGH						not used
W126	WBEGJ						not used
W127	WBEGK						not used
W128	WBEHJ						not used
W129	WBEHK						not used
W130	WBEJK						not used
W131	WBF GH						not used
W132	WBF GJ						not used
W133	WBF GK						not used

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
W134	WBFHJ						not used
W135	WBFHK						not used
W136	WBFJK						not used
W137	WBGHJ						not used
W138	WBGHK						not used
W139	WBGJK						not used
W140	WBHJK						not used
W141	WCDEF						not used
W142	WCDEG						not used
W143	WCDEH						not used
W144	WCDEJ						not used
W145	WCDEK						not used
W146	WCDFG						not used
W147	WCDFH						not used
W148	WCDFJ						not used
W149	WCDFK						not used
W150	WCDGH						not used
W151	WCDGJ						not used
W152	WCDGK						not used
W153	WCDHJ						not used
W154	WCDHK						not used
W155	WCDJK						not used
W156	WCEFG						not used
W157	WCEFH						not used
W158	WCEFJ						not used
W159	WCEFK						not used
W160	WCEGH						not used
W161	WCEGJ						not used
W162	WCEGK						not used
W163	WCEHJ						not used
W164	WCEHK						not used
W165	WCEJK						not used
W166	WCFGH						not used
W167	WCFGJ						not used
W168	WCFGK						not used
W169	WCFHJ						not used
W170	WCFHK						not used
W171	WCFJK						not used
W172	WCGHJ						not used
W173	WCGHK						not used
W174	WCGJK						not used
W175	WCHJK						not used
W176	WDEFG						not used
W177	WDEFH						not used
W178	WDEFJ						not used
W179	WDEFK						not used
W180	WDEGH						not used
W181	WDEGJ						not used
W182	WDEGK						not used
W183	WDEHJ						not used

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
W184	WDEHK							not used
W185	WDEJK							not used
W186	WDFGH							not used
W187	WDFGJ							not used
W188	WDFGK							not used
W189	WDFHJ							not used
W190	WDFHK							not used
W191	WDFJK							not used
W192	WDGHJ							not used
W193	WDGHK							not used
W194	WDGJK							not used
W195	WDHJK							not used
W196	WDFGH							not used
W197	WDFGJ							not used
W198	WDFGK							not used
W199	WDFHJ							not used
W200	WDFHK							not used
W201	WDFJK							not used
W202	WEGHJ							not used
W203	WEGHK							not used
W204	WEGJK							not used
W205	WEHJK							not used
W206	WFGHJ							not used
W207	WFGHK							not used
W208	WFGJK							not used
W209	WFHJK							not used
W210	WGHJK							not used
X001	XABCD	26	8F 4B		SR2	24 V	Neutral Slow Release Relay	(obsolete)
X002	XABCE	135			XR1	110/24 V 4 W	Transformer / Rectifier	(obsolete)
X003	XABCF	9	8F 8B	(BR 930) [2]	N1	12 V	Neutral Relay	
X004	XABCG	123			XR1	99-115/ 50-60 V 8 W	Transformer / Rectifier	(obsolete)
X005	XABCH	123			XR1	99-115/ 50-60 V 4 W	Transformer / Rectifier	(obsolete)
X006	XABCJ	1	8F 4B		BSRA1	50 V	Slow Release A.C. Immune D.C. Biased Line Relay	(obsolete)
X007	XABCK	123			XR1	99-115/ 50-60 V 4 W	Transformer / Rectifier	(obsolete)
X008	XABDE	21			R1		Rectifier-Resistance Unit	(obsolete)
X009	XABDF	41			R2		Rectifier-Resistance Unit	(obsolete)
X010	XABDG	42	4F 2B		SR3	0.125 A or 1.10 A	D.C. Lamp Proving Slow Release Relay	previously SRA3 (obsolete)
X011	XABDH	123			XR1	99-115/ 50-60 V 15 W	Transformer / Rectifier	

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
X012	XABDJ	42	4F 2B		N3	0.20 A	D.C. Lamp Proving Relay	(obsolete)
X013	XABDK	42	4F 2B		N3	0.25 A	D.C. Lamp Proving Relay	(obsolete)
X014	XABEF	42	4F 2B		N3	1.30 A	D.C. Lamp Proving Relay	(obsolete)
X015	XABEG	144	3c/o / 3c/o		R3	50 V	Twin Relay (PO type)	(obsolete)
X016	XABEH	145			R4		Capacitor/Resistor Unit	for use with R3 (obsolete)
X017	XABEJ	204	2F 2B		XR1 BAT	110/24 V 4 W 1.6 V	Transformer / Rectifier D.C. Biased A.C. Immune Track Relay	obsolete (double allocated)
X018	XABEK	138	16F		N5	50 V	Neutral Relay	with Elkonite contacts (not for new work)
X019	XABFG	138	16F		NA2	50 V	A.C. Immune Neutral Relay	with Elkonite contacts (obsolete)
X020	XABFH	42	4F 2B		SR3	1.1 A	D.C. Lamp Proving Slow Release Relay	previously SRA3 (obsolete)
X021	XABFJ	178	4MF 4F 4B		NA2	50 V	A.C. Immune Neutral Relay	(obsolete)
X022	XABFK	42	4F 2B		N3	0.125 A	D.C. Lamp Proving Relay	(obsolete)
X023	XABGH	42	4F 2B		N3	0.60 A	D.C. Lamp Proving Relay	(obsolete)
X024	XABGJ							not used
X025	XABGK	42	4F 2B		SR3	0.11 A	D.C. Lamp Proving Slow Release Relay	previously SRA3 (obsolete)
X026	XABHJ	5	4F 4B	(BR 930) [2]	N1	12 V	Neutral Relay	
X027	XABHK	166	2F 2B		J1	12 V	Thermal Timer (120-240s)	for New Zealand Railways
X028	XABJK	146			R5	12 V	Capacitor/Resistor Unit (3.5s - 4.5s delay)	not for new work
X029	XACDE	205			XR1	110/24 V 3.5 W	Transformer / Rectifier	1µF cable capacity immunity
X030	XACDF	25	4F 4B		N3	0.35 A	D.C. Lamp Proving Relay	pin code 0046 allocated
X031	XACDG	42	4F 2B		SRA1	50 V	A.C. Immune Neutral Slow Release Relay	
X032	XACDH	223	10F 2B		LS1	50 V	Sensitive Latched Relay	with Elkonite contacts (obsolete)
X033	XACDJ	224	10F 6B		LS1	50 V	Sensitive Latched Relay	with Elkonite contacts (obsolete)
X034	XACDK	135			XR1	60 Hz 100/ 24 V 4 W	Transformer / Rectifier	(obsolete)
X035	XACEF	163	2F 2B		ECX2	0.9 A	A.C. Lamp Proving Relay	for South African Railways
X036	XACEG	42	4F 2B		EC2	0.8 A	D.C. Lamp Proving Relay	
X037	XACEH	146			R5	24 V	Capacitor Unit (>0.6s delay)	not for new work
X038	XACEJ	42	4F 2B	(BR 940) [16]	EC1	0.4 A	D.C. Slow Release Lamp Proving Relay	
X039	XACEK	43	2F		TA1	12 V	A.C. Immune Track Relay	

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
X040	XACFG	25	4F 4B		N3	0.048 A	D.C. Lamp Proving Relay	for South African Railways
X041	XACFH							not used
X042	XACFJ	1 3	8F 4B 12F 4B	(BR 930) [2] (BR 930) [2]	N1 N1	12 V 12 V	Neutral Relay Neutral Relay	
X043	XACFK		2F 14B		N1	12 V	Neutral Relay	for New Zealand Railways
X044	XACGH	43	2F		TA1	6 V	A.C. Immune Track Relay	for LMR Derby
X045	XACGJ	210			TD1	50 V 0.5 A load	Twin Slow Operate Electronic Timer (1-20s)	WBS allocated Australia (for non-vital use)
X046	XACGK	212			DF1	24 V 100 W load	Electronic D.C. Flasher (+ve flashing)	WBS allocated Australia (for control panel lamps)
X047	XACHJ	210			TD1	24 V 0.5 A load	Twin Slow Operate Electronic Timer (1-20s)	WBS allocated Australia (for non-vital use)
X048	XACHK	170	1MF 7F 8B	(BR 930) [2]	N1	50 V	Neutral Relay	
X049	XACJK	168	2MF 9F 4B	(BR 935) [3]	L1	50 V	Latched Relay	with 2 Elkonite contacts
X050	XADEF	135			XR1	99-115/ 12 V 4 W	Transformer / Rectifier	(obsolete)
X051	XADEG	21			R1		Rectifier-Resistance Unit	(obsolete)
X052	XADEH	213 214			DF1 DF2	12 V 90 W load 12 V 10 A load	Electronic D.C. Flasher (-ve flashing) Electronic AC Flasher	WBS allocated Australia (for control panel lamps) two styles
X053	XADEJ				TF1			WBS allocated Australia (obsolete)
X054	XADEK	171	1MF 1MB 7F 3B	(BR 930) [2]	N1	50 V	Neutral Relay	
X055	XADFG	42	4F 2B		N3	0.295 A	D.C. Lamp Proving Relay	
X056	XADFH	201			XR1	110/12 V	Transformer / Rectifier	for South African Railways lamp proving
X057	XADFJ	82	6F 2B		N3	12 V	Sensitive Neutral Relay	for Glasgow Underground tunnel telephones
X058	XADFK	57	1F 1B		MT1	110 V	Slow Operate A.C. Motor Timer (10-140s)	(obsolete)
X059	XADGH				PA1			WBS allocated Australia (obsolete)
X060	XADGJ				SLS1		Lever Stick Solid State	WBS allocated Australia (obsolete)
X061	XADGK	138	16F	(BR 930) [2]	N1	12 V	Neutral Relay	
X062	(XADHJ)	233			CU1		20 Way Connector	for mounting components (5 pins supplied loose)
X063	XADHK	235			CU1		12 Way Connector	for mounting components (obsolete)
X064	XADJK	235			CU1		12 Way Connector	for mounting components (obsolete)

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
X065	XAEFG	188	2F 2B		NX1	0.23 A	A.C. Relay	for South African Railways
X066	XAEFH							not used
X067	XAEFJ	26	8F 4B		N3	0.4 A	D.C. Lamp Proving Relay	double allocated (first obsolete; second for South Africa)
		21			R1	14 Ω 45 W	Rectifier-Resistance Unit	
X068	XAEFK	42	4F 2B	(BR 940) [16]	EC1	0.2 A	D.C. Slow Release Lamp Proving Relay	
X069	XAEGH	189	3F 2B / 3F 2B		R3	40 V	Twin Relay (PO type)	with palladium contacts
X070	XAEGJ				TD3	50 V	Electronic Timer Unit	WBS allocated Australia
X071	XAEGK	210			TD1	24 V	Twin Slow Operate Timer	WBS allocated Australia (for non-vital use)
X072	XAEHJ		7F 4B		TR1	3 V		WBS allocated Australia
X073	XAEHK		14F 2B		N1	24 V	Neutral Relay	WBS allocated Australia
X074	XAEJK	57	1F / 1F 1F 1B		P3 MT1	110 V	Slow Operate A.C. Motor Timer	double allocated
X075	XAFGH	167	2F 2B		J1	12 V	Thermal Timer (45-135s)	for New Zealand Railways
X076	XAFGJ							WBS allocated South Africa
X077	XAFGK							WBS allocated South Africa
X078	XAFHJ							WBS allocated South Africa
X079	XAFHK							WBS allocated South Africa
X080	XAFJK							WBS allocated South Africa
X081	XAGHJ							WBS allocated South Africa
X082	XAGHK							WBS allocated South Africa
X083	XAGJK							WBS allocated South Africa
X084	XAHJK							WBS allocated South Africa
X085	XBCDE							WBS allocated South Africa
X086	XBCDF	119	5F 3B / 5F 3B		NNM1	50 V	Twin Neutral Relay	pin code 1044 allocated (silver to silver contacts for non-vital use)
X087	XBCDG	163	2F 2B		ECX4	0.08 A	Slow Release A.C. Lamp Proving Relay	for Stockholm Metro (for two diverse lamps)
X088	XBCDH	33	4F 3B / 4F 3B		NNMD1	50 V	Twin Neutral Relay (double wound)	pin code 1045 allocated (silver to silver contacts for non-vital use)
X089	XBCDJ	119	5F 3B / 5F 3B		NNMS1	50 V	Twin Neutral Slow Release Relay	pin code 1046 allocated
X090	XBCDK	240					Modem Line Connection Unit	(obsolete)
X091	XBCEF	214			DF2	24 V 10 A load	Electronic AC Flasher	WBS allocated Australia (for control panel lamps)

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
X092	XBCEG	211			TD4	12 V	Slow Release Electronic Timer (3-300s adjustable)	WBS allocated Australia (for safety-critical use)
X093	XBCEH				TA1	2.25 Ω		for Canadian Railways
X094	XBCEJ	57	1F 1B		MT1	110 V 60 Hz	Slow Operate A.C. Motor Timer (2-50s)	for Brazilian Railways
X095	XBCEK	161	2F 4B 2HF	(BR 943) [28]	BCA1	50 V	Biased A.C. Immune Contactor	
X096	XBCFG	110	1F 3B		CJ1	50 V	Slow Operate Electronic Timer (12s)	pin code 6047 allocated (for non-vital use)
X097	XBCFH	163	2F 2B		ECX6	0.093 A	A.C. Lamp Proving Relay	for Oslo Metro
X098	XBCFJ	202			XR1	220/50 V 4 W	Transformer / Rectifier	0.5 μ F cable capacity immunity
X099	XBCFK	25	4F 4B		N3	0.375 A	D.C. Lamp Proving Relay	
X100	XBCGH	155	6F 6B		S2	12 V	Low Power Neutral Relay	WBS allocated Australia pin code 0116 allocated
X101	XBCGJ	163	2F 2B	(BR 938) [18]	T2	270 Ω 0.015 A	D.C. Neutral Track Relay	WBS allocated Australia (for AFO track circuits)
X102	XBCGK	212			DF1	12 V 90 W load	Electronic D.C. Flasher (+ve flashing)	WBS allocated Australia (for control panel lamps)
X103	XBCHJ	213			DF1	24 V 100 W load	Electronic D.C. Flasher (-ve flashing)	WBS allocated Australia (for control panel lamps)
X104	XBCHK	85	4F 2B		NX1	0.23 A	A.C. Lamp Proving Relay	for South African Railways
X105	XBCJK	119	5F 3B / 5F 3B		INN1	12 V	Twin Neutral Relay	intrinsically safe, for mining
X106	XBDEF		8F 4B		IN1	12 V	Neutral Relay	intrinsically safe, for mining
X107	XBDEG	9	8F 8B	(BR 930) [2]	N1	24 V	Neutral Relay	WBS allocated Australia (for UM71 track circuits)
X108	XBDEH	225	7F 7B		IL1	12 V	Latched Relay	intrinsically safe, for mining
X109	XBDEJ		4F 2B		T1	270 Ω 4.7 V	Neutral Track Relay	WBS allocated Australia
X110	XBDEK	3	12F 4B		N5	36 V	Neutral Relay	with Elkonite contacts
X111	XBDFG	9	8F 8B		N5	36 V	Neutral Relay	with Elkonite contacts
X112	XBDFH	208	5F 2B		TD5	50 V	Slow Operate Electronic Timer (3-325s)	WBS allocated Australia (for safety-critical use)
		208	5F 2B		TD5	50 V	Special Timer for State of Victoria	two types
X113	XBDFJ	208	5F 2B		TD5	24 V	Slow Operate Electronic Timer (3-325s)	WBS allocated Australia (for safety-critical use)
X114	XBDFK	250			B Mk1	12 V	Proxiwest	for mining (metal detector)
X115	XBDGH	208	5F 2B		TD5	12 V	Slow Operate Electronic Timer (3-325s)	WBS allocated Australia (for safety-critical use)
X116	XBDGJ	28	11F 4B	(BR 935) [3]	L1	12 V	Latched Relay	
X117	XBDGK	13	8F 6B	(BR 935) [3]	L1	12 V	Latched Relay	
X118	XBDHJ	8	6F 6B	(BR 930) [2]	ND2	12 V	Neutral Relay	double wound
X119	XBDHK	20	6F 2B/ 6F 2B	(BR 960) [11]	NN1	12 V	Twin Neutral Relay	

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
X120	XBDJK	19	4F 4B / 4F 4B	(BR 963) [31]	NNS1	12 V	Twin Neutral Slow Acting Relay	
X121	XBEFG	20	6F 2B / 6F 2B	(BR 961) [5]	BBA1	12 V	Twin Biased A.C. Immune Relay	
X122	XBEFH	124	4F 4B / 2F 1B	(BR 962) [24]	JN1	12 V	Neutral Relay with Thermal Timer (30-120s)	
X123	XBEFJ	209	4F 3B		TD5	12 V	Slow Operate Electronic Timer (3-325s)	WBS allocated Australia (for safety-critical use)
X124	XBEFK	209	4F 3B		TD5	24 V	Slow Operate Electronic Timer (3-325s)	WBS allocated Australia (for safety-critical use)
X125	XBEGH	209	4F 3B		TD5	50 V	Slow Operate Electronic Timer (3-325s)	WBS allocated Australia (for safety-critical use)
		209	4F 3B		TD5	50 V	Special Timer for State of Victoria	two types
X126	XBEGJ							WBS allocated South Africa
X127	XBEGK							WBS allocated South Africa
X128	XBEHJ	233			CU1		20 Way Connector	for mounting components WBS allocated South Africa (double allocated)
X129	XBEHK							WBS allocated South Africa
X130	XBEJK							WBS allocated South Africa
X131	XBFGH							WBS allocated South Africa
X132	XBFGJ	157	1F 1B / 1F 1B		BB2	12 V	Twin Biased Relay	special for WESTBLOC (coils connected in series)
X133	XBFGK	19	4F 4B / 4F 4B	(BR 960) [11]	NN1	12 V	Twin Neutral Relay	
X134	XBFHJ	20	6F 2B / 6F 2B	(BR 963) [31]	NNS1	12 V	Twin Neutral Slow Acting Relay	for LUL
X135	XBFHK	194	2F 1B 1c/o / 2F 1B 1c/o / 1F 1B 1c/o / 1F 1B 1c/o		R16	50 V	4 Continental Relays	with palladium contacts for non-vital use
X136	XBFJK	162	2F 2B 2HF	(BR 966 F1) [27]	NC1	50 V	Neutral Contactor	
X137	XBGHJ	195	1F 1c/o / 1F c/o / 1F 1c/o		R17	50 V	Override Unit with 5 Continental Relays	3 relays double wound with palladium contacts
X138	XBGHK	180	4F 4B 1HF		NC10	50 V	Neutral Contactor	for trainborne use
X139	XBGJK	163	2F 2B		WCX1	2.8 A	AC Motor Proving Relay	
X140	XBHJK	203			XR1	5.5 V / 12 V 5 W	Transformer / Rectifier	
X141	XCDEF	193	2F 5B / 2F 2B		R10	50 V	Twin Relay (PO type)	special for use with R5 & ED1 units (below)

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
X142	XCDEG	191			R5	50 V	Capacitor/Resistor Unit (adjustable 1s - 6s delay)	not for new work
X143	XCDEH	165			ED1	50 V	Earth Fault Detector	
X144	XCDEJ	138	16 F		N5	12 V	Neutral Relay	with Elkonite contacts (for UKAEA)
X145	XCDEK	25	4F 4B		S3	12 V	Low Power Neutral Relay	
X146	XCDFG	43	2F	(BR 938) [18]	T2	1.75 V	D.C. Neutral Track Relay	
X147	XCDFH	42	4F 2B	(BR 938) [18]	T2	0.9 V 9 Ω	D.C. Neutral Track Relay	WBS allocated Australia
X148	XCDFJ	26	8F 4B		S2	50 V	Low Power Neutral Relay	WBS allocated Australia
X149	XCDFK	192			R5	50 V	Capacitor/Resistor Unit (1 000 μF, 2 200 μF & 47 Ω)	WBS allocated Australia for flashing supply proving
X150	XCDGH	3	12F 4B		N5	12 V	Neutral Relay	with Elkonite contacts (for UKAEA)
X151	XCDGJ	248			RRIA	12 V	Twin Reed Relay Interface Unit	intrinsically safe, for mining
X152	XCDGK	249			RRIB	12 V	Twin Reed Relay Interface Unit	intrinsically safe, for mining
X153	XCDHJ	182	2F 2B 4HF		NC11	50 V	Neutral Contactor	for LUL trainborne use
X154	XCDHK	247			ITU	12 V	Twin Electronic Timer	intrinsically safe, for mining
X155	XCDJK	163	2F 2B		ECX9	0.085 A	A.C. Lamp Proving Relay	for Stockholm Metro
X156	XCEFG	187	3F 3B / 3F 3B	(BR 963) [31]	NNS1	50 V	Twin Neutral Slow Acting Relay	
X157	XCEFH		4x 2F 2B				Four Continental Relays	WBS allocated Spain
X158	XCEFJ	9	8F 8B		N10	50 V	Neutral Relay	for trainborne use
X159	XCEFK	9	8F 8B		N10	40 V	Neutral Relay	for trainborne use
X160	XCEGH	19	4F 4B/ 4F 4B		NN10	40 V	Twin Neutral Relay	for trainborne use
X161	XCEGJ	200			SU5		Shorting Unit	for Hong Kong Mass Transit Railway (MTR) code restriction circuitry
X162	XCEGK				MXR1			WBS allocated Spain
X163	XCEHJ	42	4F 2B		ECX10	0.5 A	A.C. Lamp Proving Relay	for Tyne & Wear Metro level crossing road lights
X164	XCEHK	172	6F 4B	(BR 930) [2]	N1	4 V	Neutral Relay	
X165	XCEJK		8F 8B		AX1	110 V		WBS allocated Australia
X166	XCFGH	243			R18	50 V	Complex Switching Unit of 3 Continental Relays	for signalman's point keys (obsolete)
X167	XCFGJ	196			R19	50 V	Complex Switching Unit of 5 Continental Relays	for panel point indications (with palladium contacts)
X168	XCFGK	244			R20	50 V	Complex Switching Unit of 4 Continental Relays	for signal NX (eNtrance-eXit) push buttons (obsolete)

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
X169	XCFHJ	196			R21	50 V	Complex Switching Unit of 5 Continental Relays	for panel signal indications (with palladium contacts)
X170	XCFHK	197	1F 2c/o / 1F 2c/o / 1F 2c/o		R22	50 V	3 Continental Relays	with palladium contacts
X171	XCFJK	245			R23	50 V	Override Unit with 6 Continental Relays	(obsolete)
X172	XCGHJ	246			R24	50 V	TFR Unit with 4 Continental Relays	(obsolete)
X173	XCGHK				RRIC	12 V	Reed Relay Interface Unit	intrinsically safe, for mining
X174	XCGJK				RC4		Capacitor Unit	WBS allocated Spain
X175	XCHJK	199	6F 6B		S3	12 V	Low Power Neutral Relay	
X176	XDEFG	25	4F 4B		S3	12 V	Low Power Neutral Relay	
X177	XDEFH	90	2F 2B		S3	12 V	Low Power Neutral Relay	
X178	XDEFJ	90	2F 2B	(BR 938) [18]	T2	1.4 V 9 Ω	D.C. Neutral Track Relay	
X179	XDEFK				XR1		Transformer / Rectifier	WBS allocated Spain
X180	XDEGH	138	16F		N5	24 V	Neutral Relay	with Elkonite contacts (for CEEB)
X181	XDEGJ	173	9F 3B	(BR 930) [2]	N1	12 V	Neutral Relay	
X182	XDEGK	42	4F 2B		ECX11	0.46 A	Slow Release A.C. Lamp Proving Relay	pin code 0569 allocated
X183	XDEHJ	161	2F 4B 2HF	(BR 943) [28]	BCA1	24 V	Biased A.C. Immune Contactor	
X184	XDEHK	215			DF3	5 V	Electronic D.C. Flasher (-ve flashing)	WBS allocated Australia (for LED control panels)
X185	XDEJK	163	2F 2B		ECX5	0.2 A	Slow Release A.C. Lamp Proving Relay	WBS allocated Australia
X186	XDFGH	42	4F 2B		ECX7	0.2 A	A.C. Lamp Proving Relay	WBS allocated Australia
X187	XDFGJ	42	4F 2B		ECX8	0.4 A	A.C. Lamp Proving Relay	WBS allocated Australia
X188	XDFGK	179	5B 2HF	(BR 966 F1) [27]	NC1	50 V	Neutral Contactor	
X189	XDFHJ	163	2F 2B		BT1	0.14 A 4 Ω	D.C. Biased Track Relay	WBS allocated Australia
X190	XDFHK	37	4F		ECX12	0.25 A	Slow Release A.C. Lamp Proving Relay	for double-pole lamps
X191	XDFJK	37	4F		ECX13	0.25 A	Slow Release A.C. Lamp Proving Relay	for double-pole lamps
X192	XDGHJ	42	4F 2B		N3	2.2 A	D.C. Lamp Proving Relay	WBS allocated Australia
X193	XDGHK		4F 3B / 4F 3B		LL1	50 V	Twin Latched Relay	not manufactured
X194	XDGJK				R30			WBS allocated Spain
X195	XDHJK				R31			WBS allocated Spain

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
X196	XEFGH	110	1F 3B	(BR 949) [36]	CJ1	50 V	Slow Operate Electronic Timer (10s)	(for non-vital use)
X197	XEFGJ	9	8F 8B	(BR 931) [6]	NA1	12 V	A.C. Immune Neutral Relay	
X198	XEFGK	3	12F 4B	(BR 931) [6]	NA1	12 V	A.C. Immune Neutral Relay	
X199	XEFHJ	7	6F 6B	(BR 931) [6]	NA1	12 V	A.C. Immune Neutral Relay	
X200	XEFHK	18	2F 2B / 2F 2B	(BR 960) [11]	NN1	24 V	Twin Neutral Relay	for Netherlands (low power coils)
		184	4F 2B / 4F 2B	(BR 960) [11]	NN1	24 V	Twin Neutral Relay	
X201	XEFJK		8F 4B		R15	50 V		WBS allocated Spain
X202	XEGHJ	45	2F 1B	(BR 937) [23]	J1	24 V	Thermal Timer (120-240s)	
X203	XEGHK	9	8F 8B		N10	24 V	Neutral Relay	for trainborne use
X204	XEGJK	174	10F 4B	(BR 930) [2]	N1	24 V	Neutral Relay	
X205	XEHJK	164	2F 1B	(BR 938) [18]	T2	0.5 V 4 Ω	D.C. Neutral Track Relay	for Indian Railways
X206	XFGHJ	86	2B / 1F 1B		MT2	24 V D.C. / 110 V A.C.	Slow Operate Motor Timer (10-140s)	
X207	XFGHK	164	2F 1B	(BR 966 F2) [21]	TA2	1.4 V 9 Ω	A.C. Immune Track Relay	
X208	XFGJK	203			XRF1	3.5/6.5 V 625 Ω	Transformer / Rectifier with Low-Pass Filter	for Singapore Mass Rapid Transit (MRT) depot track circuits
X209	XFHJK	26	8F 4B	(BR 966 F7) [8]	NHX1	100 V 30-125 Hz	A.C. Interface Relay for solid state interlockings	for LUL
X210	XGHJK	185	4F 2B / 4F 2B	(BR 966 F6) [30]	NNA1	50 V	Twin A.C. Immune Neutral Relay	
X211 to X500	no code to X500							
X501	XYABC							not used
X502	XYABD							not used
X503	XYABE							not used
X504	XYABF							not used
X505	XYABG							not used
X506	XYABH							not used
X507	XYABJ							not used
X508	XYABK							not used
X509	XYACD							not used
X510	XYACE							not used
X511	XYACF							not used
X512	XYACG							not used
X513	XYACH							not used
X514	XYACJ							not used
X515	XYACK							not used
X516	XYADE							not used
X517	XYADF							not used
X518	XYADG							not used
X519	XYADH							not used
X520	XYADJ							not used

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
X521	XYADK							WBS allocated Spain
X522	XYAEF							WBS allocated India
X523	XYAEG							WBS allocated India
X524	XYAEH	232			CU1		36 Way Connector	for LUL (for mounting components)
X525	XYAEJ							not used
X526	XYAEK							not used
X527	XYAFG							not used
X528	XYAFH							not used
X529	XYAFJ	43	2F		N3	6.5 V	Sensitive Neutral Relay	for Singapore MRT depot track circuits
X530	XYAFK							WBS allocated India
X531	XYAGH	90	2F 2B		BT3	0.65 V	Biased Track Relay	
X532	XYAGJ	158	4N 4R		BB2	12 V	Biased Relay pair	coils connected in series
X533	XYAGK	159	4F 4B		ECX18	0.25 A	Slow Release A.C. Lamp Proving Relay	for double-pole lamps
X534	XYAHJ							not used
X535	XYAHK							not used
X536	XYAJK							not used
X537	XYBCD							not used
X538	XYBCE							not used
X539	XYBCF							not used
X540	XYBCG							not used
X541	XYBCH							not used
X542	XYBCJ							not used
X543	XYBCK							not used
X544	XYBDE							not used
X545	XYBDF							not used
X546	XYBDG							not used
X547	XYBDH							not used
X548	XYBDJ							not used
X549	XYBDK							not used
X550	XYBEF							not used
X551	XYBEG							not used
X552	XYBEH							not used
X553	XYBEJ							not used
X554	XYBEK							not used
X555	XYBFG							not used
X556	XYBFH							not used
X557	XYBFJ							not used
X558	XYBFK							not used
X559	XYBGH							not used
X560	XYBGJ							not used
X561	XYBGK							not used
X562	XYBHJ							not used
X563	XYBHK							not used
X564	XYBJK							not used
X565	XYCDE							not used
X566	XYCDF							not used
X567	XYCDG							not used

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
X568	XYCDH						not used
X569	XYCDJ						not used
X570	XYCDK						not used
X571	XYCEF						not used
X572	XYCEG						not used
X573	XYCEH						not used
X574	XYCEJ						not used
X575	XYCEK						not used
X576	XYCFG						not used
X577	XYCFH						not used
X578	XYCFJ						not used
X579	XYCFK						not used
X580	XYCGH						not used
X581	XYCGJ						not used
X582	XYCGK						not used
X583	XYCHJ						not used
X584	XYCHK						not used
X585	XYCJK						not used
X586	XYDEF						not used
X587	XYDEG						not used
X588	XYDEH						not used
X589	XYDEJ						not used
X590	XYDEK						not used
X591	XYDFG						not used
X592	XYDFH						not used
X593	XYDFJ						not used
X594	XYDFK						not used
X595	XYDGH						not used
X596	XYDGJ						not used
X597	XYDGK						not used
X598	XYDHJ						not used
X599	XYDHK						not used
X600	XYDJK						not used
X601	XYEFG						not used
X602	XYEFH						not used
X603	XYEFJ						not used
X604	XYEFK						not used
X605	XYEGH						not used
X606	XYEGJ						not used
X607	XYEGK						not used
X608	XYEHJ						not used
X609	XYEHK						not used
X610	XYEJK						not used
X611	XYFGH						not used
X612	XYFGJ						not used
X613	XYFGK						not used
X614	XYFHJ						not used
X615	XYFHK						not used
X616	XYFJK						not used
X617	XYGHJ						not used

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
X618	XYGHK						not used
X619	XYGJK						not used
X620	XYHJK						not used
X621 to X697	no code						
X698	XYZABC-DEFGHJK					Special for Test Set	for FDM NV (Frequency Division Multiplex Non-Vital)
X699	XZAB-DFG	234		CU1		10 Way Connector	for mounting components
X700	XZ	227			12 V	Transmitter Channels 63, 74, 75	for FDM NV (universal spares)
X701	XZABC	227 228		CU	12 V	Transmitter Channel 1 WESTPLEX Interface Unit	for FDM NV; Converts Transmitter Ch 1
X702	XZABD	227 228		CU	12 V	Transmitter Channel 2 WESTPLEX Interface Unit	for FDM NV; Converts Transmitter Ch 2
X703	XZABE	227 228		CU	12 V	Transmitter Channel 3 WESTPLEX Interface Unit	for FDM NV; Converts Transmitter Ch 3
X704	XZABF	227 228		CU	12 V	Transmitter Channel 4 WESTPLEX Interface Unit	for FDM NV; Converts Transmitter Ch 4
X705	XZABG	227			12 V	Transmitter Channel 5	for FDM NV
X706	XZABH	227 228		CU	12 V	Transmitter Channel 6 WESTPLEX Interface Unit	for FDM NV; Converts Transmitter Ch 6
X707	XZABJ	227 228		CU	12 V	Transmitter Channel 7 WESTPLEX Interface Unit	for FDM NV; Converts Transmitter Ch 7
X708	XZABK	227 228		CU	12 V	Transmitter Channel 8 WESTPLEX Interface Unit	for FDM NV; Converts Transmitter Ch 8
X709	XZACD	227 228		CU	12 V	Transmitter Channel 9 WESTPLEX Interface Unit	for FDM NV; Converts Transmitter Ch 9
X710	XZACE	227 228		CU	12 V	Transmitter Channel 10 WESTPLEX Interface Unit	for FDM NV; Converts Transmitter Ch 10
X711	XZACF	227			12 V	Transmitter Channel 11	for FDM NV
X712	XZACG	227			12 V	Transmitter Channel 12	for FDM NV
X713	XZACH	227			12 V	Transmitter Channel 13	for FDM NV
X714	XZACJ	227			12 V	Transmitter Channel 14	for FDM NV
X715	XZACK	227			12 V	Transmitter Channel 15	for FDM NV
X716	XZADE	227			12 V	Transmitter Channel 16	for FDM NV

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
X717	XZADF	227			12 V	Transmitter Channel 17 WESTPLEX Interface Unit	for FDM NV;
		228		CU			Converts Transmitter Ch 17
X718	XZADG	227			12 V	Transmitter Channel 18 WESTPLEX Interface Unit	for FDM NV;
		228		CU			Converts Transmitter Ch 18
X719	XZADH	227			12 V	Transmitter Channel 19 WESTPLEX Interface Unit	for FDM NV;
		228		CU			Converts Transmitter Ch 19
X720	XZADJ	227			12 V	Transmitter Channel 20 WESTPLEX Interface Unit	for FDM NV;
		228		CU			Converts Transmitter Ch 20
X721	XZADK	227			12 V	Transmitter Channel 21 WESTPLEX Interface Unit	for FDM NV;
		228		CU			Converts Transmitter Ch 21
X722	XZAEF	227			12 V	Transmitter Channel 22 WESTPLEX Interface Unit	for FDM NV;
		228		CU			Converts Transmitter Ch 22
X723	XZAEG	227			12 V	Transmitter Channel 23 WESTPLEX Interface Unit	for FDM NV;
		228		CU			Converts Transmitter Ch 23
X724	XZAEH	227			12 V	Transmitter Channel 24 WESTPLEX Interface Unit	for FDM NV;
		228		CU			Converts Transmitter Ch 24
X725	XZAEJ	227			12 V	Transmitter Channel 25 WESTPLEX Interface Unit	for FDM NV;
		228		CU			Converts Transmitter Ch 25
X726	XZAEK	227			12 V	Transmitter Channel 26 WESTPLEX Interface Unit	for FDM NV;
		228		CU			Converts Transmitter Ch 26
X727	XZAFG	227			12 V	Transmitter Channel 27 WESTPLEX Interface Unit	for FDM NV;
		228		CU			Converts Transmitter Ch 27
X728	XZAFH	227			12 V	Transmitter Channel 28 WESTPLEX Interface Unit	for FDM NV;
		228		CU			Converts Transmitter Ch 28
X729	XZAFJ	227			12 V	Transmitter Channel 29	for FDM NV
X730	XZAFK	227			12 V	Transmitter Channel 30 WESTPLEX Interface Unit	for FDM NV;
		228		CU			Converts Transmitter Ch 30

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
X731	XZAGH	227			12 V	Transmitter Channel 31 WESTPLEX Interface Unit	for FDM NV;
		228		CU			Converts Transmitter Ch 31
X732	XZAGJ	227			12 V	Transmitter Channel 32	for FDM NV
X733	XZAGK	227			12 V	Transmitter Channel 33	for FDM NV
X734	XZAHJ	227			12 V	Transmitter Channel 34	for FDM NV
X735	XZAHK	227			12 V	Transmitter Channel 35	for FDM NV
X736	XZAJK	227			12 V	Transmitter Channel 36	for FDM NV
X737	XZBCD	227			12 V	Transmitter Channel 37	for FDM NV
X738	XZBCE	227			12 V	Transmitter Channel 38	for FDM NV
X739	XZBCF	227			12 V	Transmitter Channel 39 WESTPLEX Interface Unit	for FDM NV;
		228		CU			Converts Transmitter Ch 39
X740	XZBCG	227			12 V	Transmitter Channel 40 WESTPLEX Interface Unit	for FDM NV;
		228		CU			Converts Transmitter Ch 40
X741	XZBCH	227			12 V	Transmitter Channel 41 WESTPLEX Interface Unit	for FDM NV;
		228		CU			Converts Transmitter Ch 41
X742	XZBCJ	227			12 V	Transmitter Channel 42	for FDM NV
X743	XZBCK	227			12 V	Transmitter Channel 43	for FDM NV
X744	XZBDE	227			12 V	Transmitter Channel 44	for FDM NV
X745	XZBDF	227			12 V	Transmitter Channel 45	for FDM NV
X746	XZBDG	227			12 V	Transmitter Channel 46	for FDM NV
X747	XZBDH	227			12 V	Transmitter Channel 47	for FDM NV
X748	XZBDJ	227			12 V	Transmitter Channel 48 WESTPLEX Interface Unit	for FDM NV;
		228		CU			Converts Transmitter Ch 48
X749	XZBDK	227			12 V	Transmitter Channel 49 WESTPLEX Interface Unit	for FDM NV;
		228		CU			Converts Transmitter Ch 49
X750	XZBEF	227			12 V	Transmitter Channel 50	for FDM NV
X751	XZBEG	227			12 V	Transmitter Channel 51	for FDM NV
X752	XZBEH	227			12 V	Transmitter Channel 52	for FDM NV

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
X753	XZBEJ	227			12 V	Transmitter Channel 53	for FDM NV
X754	XZBEK	227			12 V	Transmitter Channel 54	for FDM NV
X755	XZBFG	227			12 V	Transmitter Channel 55	for FDM NV
X756	XZBFH	227			12 V	Transmitter Channel 56 WESTPLEX Interface Unit	for FDM NV;
		228		CU			Converts Transmitter Ch 56
X757	XZBFJ	227			12 V	Transmitter Channel 57 WESTPLEX Interface Unit	for FDM NV;
		228		CU			Converts Transmitter Ch 57
X758	XZBFK	227			12 V	Transmitter Channel 58	for FDM NV
X759	XZBGH	227			12 V	Transmitter Channel 59	for FDM NV
X760	XZBGJ	227			12 V	Transmitter Channel 60 WESTPLEX Interface Unit	for FDM NV;
		228		CU			Converts Transmitter Ch 60
X761	XZBGK	227			12 V	Transmitter Channel 61 WESTPLEX Interface Unit	for FDM NV;
		228		CU			Converts Transmitter Ch 61
X762	XZBHJ	227			12 V	Transmitter Channel 62 WESTPLEX Interface Unit	for FDM NV;
		228		CU			Converts Transmitter Ch 62
X763	XZBHK					see pin code X700	not used for FDM NV
X764	XZBJK	227			12 V	Transmitter Channel 64 WESTPLEX Interface Unit	for FDM NV;
		228		CU			Converts Transmitter Ch 64
X765	XZCDE	227			12 V	Transmitter Channel 65 WESTPLEX Interface Unit	for FDM NV;
		228		CU			Converts Transmitter Ch 65
X766	XZCDF	227			12 V	Transmitter Channel 66	for FDM NV
X767	XZCDG	227			12 V	Transmitter Channel 67	for FDM NV
X768	XZCDH	227			12 V	Transmitter Channel 68	for FDM NV
X769	XZCDJ	227			12 V	Transmitter Channel 69	for FDM NV
X770	XZCDK	227			12 V	Transmitter Channel 70	for FDM NV
X771	XZCEF	227			12 V	Transmitter Channel 71 WESTPLEX Interface Unit	for FDM NV;
		228		CU			Converts Transmitter Ch 71

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
X772	XZCEG	227				12 V	Transmitter Channel 72	for FDM NV;
		228			CU		WESTPLEX Interface Unit	Converts Transmitter Ch 72
X773	XZCEH	227				12 V	Transmitter Channel 73	for FDM NV;
		228			CU		WESTPLEX Interface Unit	Converts Transmitter Ch 73
X774	XZCEJ						see pin code X700	not used for FDM NV
X775	XZCEK						see pin code X700	not used for FDM NV
X776	XZCFG							not used
X777	XZCFH							not used
X778	XZCFJ							not used
X779	XZCFK							not used
X780	XZCGH							not used
X781	XZCGJ							not used
X782	XZCGK							not used
X783	XZCHJ							not used
X784	XZCHK							not used
X785	XZCJK							not used
X786	XZDEF							not used
X787	XZDEG							not used
X788	XZDEH							not used
X789	XZDEJ							not used
X790	XZDEK							not used
X791	XZDFG							not used
X792	XZDFH							not used
X793	XZDFJ							not used
X794	XZDFK							not used
X795	XZDGH							not used
X796	XZDGJ							not used
X797	XZDGK							not used
X798	XZDHJ							not used
X799	XZDHK							not used
X800	XZDJK							not used
X801	XZEFG							not used
X802	XZEFH							not used
X803	XZEFJ							not used
X804	XZEFK							not used
X805	XZEGH							not used
X806	XZEGJ							not used
X807	XZEGK							not used
X808	XZEHJ							not used
X809	XZEHK							not used
X810	XZEJK							not used
X811	XZFGH							not used
X812	XZFGJ							not used
X813	XZFGK							not used
X814	XZFHJ							not used
X815	XZFHK							not used
X816	XZFJK							not used

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
X817	XZGHJ						not used
X818	XZGHK						not used
X819	XZGJK						not used
X820	XZHJK						not used
Y001	YABCD						not used
Y002	YABCE						not used
Y003	YABCF						not used
Y004	YABCG						not used
Y005	YABCH						not used
Y006	YABCJ						not used
Y007	YABCK						not used
Y008	YABDE						not used
Y009	YABDF						not used
Y010	YABDG						not used
Y011	YABDH						not used
Y012	YABDJ						not used
Y013	YABDK						not used
Y014	YABEF						not used
Y015	YABEG						not used
Y016	YABEH						not used
Y017	YABEJ						not used
Y018	YABEK						not used
Y019	YABFG						not used
Y020	YABFH						not used
Y021	YABFJ						not used
Y022	YABFK						not used
Y023	YABGH						not used
Y024	YABGJ						not used
Y025	YABGK						not used
Y026	YABHJ						not used
Y027	YABHK						not used
Y028	YABJK						not used
Y029	YACDE						not used
Y030	YACDF						not used
Y031	YACDG						not used
Y032	YACDH						not used
Y033	YACDJ						not used
Y034	YACDK						not used
Y035	YACEF						not used
Y036	YACEG						not used
Y037	YACEH						not used
Y038	YACEJ						not used
Y039	YACEK						not used
Y040	YACFG						not used
Y041	YACFH						not used
Y042	YACFJ						not used
Y043	YACFK						not used
Y044	YACGH						not used
Y045	YACGJ						not used
Y046	YACGK						not used

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
Y047	YACHJ						not used
Y048	YACHK						not used
Y049	YACJK						not used
Y050	YADEF						not used
Y051	YADEG						not used
Y052	YADEH						not used
Y053	YADEJ						not used
Y054	YADEK						not used
Y055	YADFG						not used
Y056	YADFH						not used
Y057	YADFJ						not used
Y058	YADFK						not used
Y059	YADGH						not used
Y060	YADGJ						not used
Y061	YADGK						not used
Y062	YADHJ						not used
Y063	YADHK						not used
Y064	YADJK						not used
Y065	YAEFG						not used
Y066	YAEFH						not used
Y067	YAEFJ						not used
Y068	YAEFK						not used
Y069	YAEGH						not used
Y070	YAEGJ						not used
Y071	YAEGK						not used
Y072	YAEHJ						not used
Y073	YAEHK						not used
Y074	YAEJK						not used
Y075	YAFGH						not used
Y076	YAFGJ						not used
Y077	YAFGK						not used
Y078	YAFHJ						not used
Y079	YAFHK						not used
Y080	YAFJK						not used
Y081	YAGHJ						not used
Y082	YAGHK						not used
Y083	YAGJK						not used
Y084	YAHJK						not used
Y085	YBCDE						not used
Y086	YBCDF						not used
Y087	YBCDG						not used
Y088	YBCDH						not used
Y089	YBCDJ						not used
Y090	YBCDK						not used
Y091	YBCEF						not used
Y092	YBCEG						not used
Y093	YBCEH						not used
Y094	YBCEJ						not used
Y095	YBCEK						not used
Y096	YBCFG						not used

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
Y097	YBCFH						not used
Y098	YBCFJ						not used
Y099	YBCFK						not used
Y100	YBCGH						not used
Y101	YBCGJ						not used
Y102	YBCGK						not used
Y103	YBCHJ						not used
Y104	YBCHK						not used
Y105	YBCJK						not used
Y106	YBDEF						not used
Y107	YBDEG						not used
Y108	YBDEH						not used
Y109	YBDEJ						not used
Y110	YBDEK						not used
Y111	YBDFG						not used
Y112	YBDFH						not used
Y113	YBDFJ						not used
Y114	YBDFK						not used
Y115	YBDGH						not used
Y116	YBDGJ						not used
Y117	YBDGK						not used
Y118	YBDHJ						not used
Y119	YBDHK						not used
Y120	YBDJK						not used
Y121	YBEFG						not used
Y122	YBEFH						not used
Y123	YBEFJ						not used
Y124	YBEFK						not used
Y125	YBEGH						not used
Y126	YBEGJ						not used
Y127	YBEGK						not used
Y128	YBEHJ						not used
Y129	YBEHK						not used
Y130	YBEJK						not used
Y131	YBFGH						not used
Y132	YBFGJ						not used
Y133	YBFGK						not used
Y134	YBFHJ						not used
Y135	YBFHK						not used
Y136	YBFJK						not used
Y137	YBGHJ						not used
Y138	YBGHK						not used
Y139	YBGJK						not used
Y140	YBHJK						not used
Y141	YCDEF						not used
Y142	YCDEG						not used
Y143	YCDEH						not used
Y144	YCDEJ						not used
Y145	YCDEK						not used
Y146	YCDFG						not used

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
Y147	YCDFH							not used
Y148	YCDFJ							not used
Y149	YCDFK							not used
Y150	YCDGH							not used
Y151	YCDGJ							not used
Y152	YCDGK	26	8F 4B		N3	0.375 A	Sensitive Neutral Relay	for use with FDM NV
Y153	YCDHJ							not used
Y154	YCDHK							not used
Y155	YCDJK							not used
Y156	YCEFG							not used
Y157	YCEFH							not used
Y158	YCEFJ							not used
Y159	YCEFK							not used
Y160	YCEGH							not used
Y161	YCEGJ							not used
Y162	YCEGK							not used
Y163	YCEHJ							not used
Y164	YCEHK							not used
Y165	YCEJK							not used
Y166	YCFGH							not used
Y167	YCFGJ							not used
Y168	YCFGK							not used
Y169	YCFHJ							not used
Y170	YCFHK							not used
Y171	YCFJK							not used
Y172	YCGHJ							not used
Y173	YCGHK							not used
Y174	YCGJK							not used
Y175	YCHJK							not used
Y176	YDEFG							not used
Y177	YDEFH							not used
Y178	YDEFJ							not used
Y179	YDEFK							not used
Y180	YDEGH							not used
Y181	YDEGJ							not used
Y182	YDEGK							not used
Y183	YDEHJ							not used
Y184	YDEHK							not used
Y185	YDEJK							not used
Y186	YDFGH							not used
Y187	YDFGJ							not used
Y188	YDFGK							not used
Y189	YDFHJ							not used
Y190	YDFHK							not used
Y191	YDFJK							not used
Y192	YDGHJ							not used
Y193	YDGHK							not used
Y194	YDGJK							not used
Y195	YDHJK							not used

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
Y196	YEF GH						not used
Y197	YEF GJ						not used
Y198	YEF GK						not used
Y199	YEF HJ						not used
Y200	YEF HK						not used
Y201	YEF JK						not used
Y202	YEG HJ						not used
Y203	YEG HK						not used
Y204	YEG JK						not used
Y205	YEH JK						not used
Y206	YFG HJ						not used
Y207	YFG HK						not used
Y208	YFG JK						not used
Y209	YFH JK						not used
Y210	YGH JK						not used
Y211 to Y499	no code to						
Y500	YZ	227			12 V	Receiver Channels 63, 74, 75	for FDM NV (universal spares)
Y501	YZABC	227 228		CU	12 V	Receiver Channel 1 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 1
Y502	YZABD	227 228		CU	12 V	Receiver Channel 2 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 2
Y503	YZABE	227 228		CU	12 V	Receiver Channel 3 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 3
Y504	YZABF	227 228		CU	12 V	Receiver Channel 4 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 4
Y505	YZABG	227			12 V	Receiver Channel 5	for FDM NV
Y506	YZABH	227 228		CU	12 V	Receiver Channel 6 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 6
Y507	YZABJ	227 228		CU	12 V	Receiver Channel 7 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 7
Y508	YZABK	227 228		CU	12 V	Receiver Channel 8 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 8
Y509	YZACD	227 228		CU	12 V	Receiver Channel 9 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 9
Y510	YZACE	227 228		CU	12 V	Receiver Channel 10 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 10
Y511	YZACF	227			12 V	Receiver Channel 11	for FDM NV
Y512	YZACG	227			12 V	Receiver Channel 12	for FDM NV
Y513	YZACH	227			12 V	Receiver Channel 13	for FDM NV
Y514	YZACJ	227			12 V	Receiver Channel 14	for FDM NV
Y515	YZACK	227			12 V	Receiver Channel 15	for FDM NV

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
Y516	YZADE	227			12 V	Receiver Channel 16	for FDM NV
Y517	YZADF	227 228		CU	12 V	Receiver Channel 17 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 17
Y518	YZADG	227 228		CU	12 V	Receiver Channel 18 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 18
Y519	YZADH	227 228		CU	12 V	Receiver Channel 19 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 19
Y520	YZADJ	227 228		CU	12 V	Receiver Channel 20 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 20
Y521	YZADK	227 228		CU	12 V	Receiver Channel 21 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 21
Y522	YZAEF	227 228		CU	12 V	Receiver Channel 22 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 22
Y523	YZAEG	227 228		CU	12 V	Receiver Channel 23 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 23
Y524	YZAEH	227 228		CU	12 V	Receiver Channel 24 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 24
Y525	YZAEJ	227 228		CU	12 V	Receiver Channel 25 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 25
Y526	YZAEK	227 228		CU	12 V	Receiver Channel 26 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 26
Y527	YZAFG	227 228		CU	12 V	Receiver Channel 27 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 27
Y528	YZAFH	227 228		CU	12 V	Receiver Channel 28 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 28
Y529	YZAFJ	227			12 V	Receiver Channel 29	for FDM NV
Y530	YZAFK	227 228		CU	12 V	Receiver Channel 30 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 30
Y531	YZAGH	227 228		CU	12 V	Receiver Channel 31 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 31
Y532	YZAGJ	227			12 V	Receiver Channel 32	for FDM NV
Y533	YZAGK	227			12 V	Receiver Channel 33	for FDM NV
Y534	YZAHJ	227			12 V	Receiver Channel 34	for FDM NV
Y535	YZAHK	227			12 V	Receiver Channel 35	for FDM NV
Y536	YZAJK	227			12 V	Receiver Channel 36	for FDM NV
Y537	YZBCD	227			12 V	Receiver Channel 37	for FDM NV
Y538	YZBCE	227			12 V	Receiver Channel 38	for FDM NV

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
Y539	YZBCF	227 228		CU	12 V	Receiver Channel 39 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 39
Y540	YZBCG	227 228		CU	12 V	Receiver Channel 40 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 40
Y541	YZBCH	227 228		CU	12 V	Receiver Channel 41 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 41
Y542	YZBCJ	227			12 V	Receiver Channel 42	for FDM NV
Y543	YZBCK	227			12 V	Receiver Channel 43	for FDM NV
Y544	YZBDE	227			12 V	Receiver Channel 44	for FDM NV
Y545	YZBDF	227			12 V	Receiver Channel 45	for FDM NV
Y546	YZBDG	227			12 V	Receiver Channel 46	for FDM NV
Y547	YZBDH	227			12 V	Receiver Channel 47	for FDM NV
Y548	YZBDJ	227 228		CU	12 V	Receiver Channel 48 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 48
Y549	YZBDK	227 228		CU	12 V	Receiver Channel 49 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 49
Y550	YZBEF	227			12 V	Receiver Channel 50	for FDM NV
Y551	YZBEG	227			12 V	Receiver Channel 51	for FDM NV
Y552	YZBEH	227			12 V	Receiver Channel 52	for FDM NV
Y553	YZBEJ	227			12 V	Receiver Channel 53	for FDM NV
Y554	YZBEK	227			12 V	Receiver Channel 54	for FDM NV
Y555	YZBFG	230			12 V	Line Amplifier	for FDM NV
Y556	YZBFH	227 228		CU	12 V	Receiver Channel 56 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 56
Y557	YZBFJ	227 228		CU	12 V	Receiver Channel 57 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 57
Y558	YZBFK	227			12 V	Receiver Channel 58	for FDM NV
Y559	YZBGH	227			12 V	Receiver Channel 59	for FDM NV
Y560	YZBGJ	227 228		CU	12 V	Receiver Channel 60 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 60
Y561	YZBGK	227 228		CU	12 V	Receiver Channel 61 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 61
Y562	YZBHJ	227 228		CU	12 V	Receiver Channel 62 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 62
Y563	YZBHK					see pin code Y500	not used for FDM NV
Y564	YZBJK	227 228		CU	12 V	Receiver Channel 64 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 64
Y565	YZCDE	227 228		CU	12 V	Receiver Channel 65 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 65
Y566	YZCDF	227			12 V	Receiver Channel 66	for FDM NV
Y567	YZCDG	227			12 V	Receiver Channel 67	for FDM NV

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
Y568	YZCDH	227			12 V	Receiver Channel 68	for FDM NV
Y569	YZCDJ	227			12 V	Receiver Channel 69	for FDM NV
Y570	YZCDK	227			12 V	Receiver Channel 70	for FDM NV
Y571	YZCEF	227 228		CU	12 V	Receiver Channel 71 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 71
Y572	YZCEG	227 228		CU	12 V	Receiver Channel 72 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 72
Y573	YZCEH	227 228		CU	12 V	Receiver Channel 73 WESTPLEX Interface Unit	for FDM NV; Converts Receiver Ch 73
Y574	YZCEJ					see pin code Y500	not used for FDM NV
Y575	YZCEK					see pin code Y500	not used for FDM NV
Y576	YZCFG	227			12 V	Receiver Channel 55	for FDM NV
Y577	YZCFH	236				Line Filter Unit	for FDM NV
Y578	YZCFJ	237				Line Isolating Unit	for FDM NV
Y579	YZCFK	238				Line Connection Unit	for Block Bell System
Y580	YZCGH	238				Line Connection Unit	for Time Division Multiplex (TDM) 69 (with lightning protection)
Y581	YZCGJ	238				Line Connection Unit	for TDM 69
Y582	YZCGK	238				Line Connection Unit	for Block Bell System (with lightning protection)
Y583	YZCHJ	240				Modem Line Connection Unit	
Y584	YZCHK	238				Line Connection Unit	for TDM 69 (with lightning protection & fuses)
Y585	YZCJK	238				Line Connection Unit	for Block Bell System (with lightning protection & fuses)
Y586	YZDEF	239				Line isolating transformer	for TDM 69
Y587	YZDEG	236				High Pass Filter	for FDM NV
Y588	YZDEH	229				Power Supply	for FDM NV
Y589	YZDEJ	241		ORU	50 V	Override Unit with 6 Continental Relays	for TDM 69
Y590	YZDEK	242			50 V	Twin Code Detector	for coded track circuits
Y591	YZDFG						not used
Y592	YZDFH						not used
Y593	YZDFJ						not used
Y594	YZDFK						not used
Y595	YZDGH						not used
Y596	YZDGJ						not used
Y597	YZDGK						not used
Y598	YZDHJ						not used
Y599	YZDHK						not used
Y600	YZDJK						not used
Y601	YZEFG						not used

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
Y602	YZEFH						not used
Y603	YZEFJ						not used
Y604	YZEFK						not used
Y605	YZEGH						not used
Y606	YZEGJ						not used
Y607	YZEGK						not used
Y608	YZEHJ						not used
Y609	YZEHK						not used
Y610	YZEJK						not used
Y611	YZFGH						not used
Y612	YZFGJ						not used
Y613	YZFGK						not used
Y614	YZFHJ						not used
Y615	YZFHK						not used
Y616	YZFJK						not used
Y617	YZGHJ						not used
Y618	YZGHK						not used
Y619	YZGJK						not used
Y620	YZHJK						not used
Z001	ZABCD						not used
Z002	ZABCE						not used
Z003	ZABCF						not used
Z004	ZABCG						not used
Z005	ZABCH						not used
Z006	ZABCI						not used
Z007	ZABCK						not used
Z008	ZABDE						not used
Z009	ZABDF						not used
Z010	ZABDG						not used
Z011	ZABDH						not used
Z012	ZABDJ						not used
Z013	ZABDK						not used
Z014	ZABEF						not used
Z015	ZABEG						not used
Z016	ZABEH						not used
Z017	ZABEJ						not used
Z018	ZABEK						not used
Z019	ZABFG						not used
Z020	ZABFH						not used
Z021	ZABFJ						not used
Z022	ZABFK						not used
Z023	ZABGH						not used
Z024	ZABGJ						not used
Z025	ZABGK						not used
Z026	ZABHJ						not used
Z027	ZABHK						not used
Z028	ZABJK						not used
Z029	ZACDE						not used
Z030	ZACDF						not used
Z031	ZACDG						not used

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
Z032	ZACDH						not used
Z033	ZACDJ						not used
Z034	ZACDK						not used
Z035	ZACEF						not used
Z036	ZACEG						not used
Z037	ZACEH						not used
Z038	ZACEJ						not used
Z039	ZACEK						not used
Z040	ZACFG						not used
Z041	ZACFH						not used
Z042	ZACFJ						not used
Z043	ZACFK						not used
Z044	ZACGH						not used
Z045	ZACGJ						not used
Z046	ZACGK						not used
Z047	ZACHJ						not used
Z048	ZACHK						not used
Z049	ZACJK						not used
Z050	ZADEF						not used
Z051	ZADEG						not used
Z052	ZADEH						not used
Z053	ZADEJ						not used
Z054	ZADEK						not used
Z055	ZADFG						not used
Z056	ZADFH						not used
Z057	ZADFJ						not used
Z058	ZADFK						not used
Z059	ZADGH						not used
Z060	ZADGJ						not used
Z061	ZADGK						not used
Z062	ZADHJ						not used
Z063	ZADHK						not used
Z064	ZADJK						not used
Z065	ZAEFG						not used
Z066	ZAEFH						not used
Z067	ZAEFJ						not used
Z068	ZAEFK						not used
Z069	ZAEGH						not used
Z070	ZAEGJ						not used
Z071	ZAEGK						not used
Z072	ZAEHJ						not used
Z073	ZAEHK						not used
Z074	ZAEJK						not used
Z075	ZAFGH						not used
Z076	ZAFGJ						not used
Z077	ZAFGK						not used
Z078	ZAFHJ						not used
Z079	ZAFHK						not used
Z080	ZAFJK						not used
Z081	ZAGHJ						not used

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
Z082	ZAGHK						not used
Z083	ZAGJK						not used
Z084	ZAHJK						not used
Z085	ZBCDE						not used
Z086	ZBCDF						not used
Z087	ZBCDG						not used
Z088	ZBCDH						not used
Z089	ZBCDJ						not used
Z090	ZBCDK						not used
Z091	ZBCEF						not used
Z092	ZBCEG						not used
Z093	ZBCEH						not used
Z094	ZBCEJ						not used
Z095	ZBCEK						not used
Z096	ZBCFG						not used
Z097	ZBCFH						not used
Z098	ZBCFJ						not used
Z099	ZBCFK						not used
Z100	ZBCGH						not used
Z101	ZBCGJ						not used
Z102	ZBCGK						not used
Z103	ZBCHJ						not used
Z104	ZBCHK						not used
Z105	ZBCJK						not used
Z106	ZBDEF						not used
Z107	ZBDEG						not used
Z108	ZBDEH						not used
Z109	ZBDEJ						not used
Z110	ZBDEK						not used
Z111	ZBDFG						not used
Z112	ZBDFH						not used
Z113	ZBDFJ						not used
Z114	ZBDFK						not used
Z115	ZBDGH						not used
Z116	ZBDGJ						not used
Z117	ZBDGK						not used
Z118	ZBDHJ						not used
Z119	ZBDHK						not used
Z120	ZBDJK						not used
Z121	ZBEFG						not used
Z122	ZBEFH						not used
Z123	ZBEFJ						not used
Z124	ZBEFK						not used
Z125	ZBEGH						not used
Z126	ZBEGJ						not used
Z127	ZBEGK						not used
Z128	ZBEHJ						not used
Z129	ZBEHK						not used
Z130	ZBEJK						not used
Z131	ZBFGH						not used

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
Z132	ZBFGJ							not used
Z133	ZBFGK							not used
Z134	ZBFHJ							not used
Z135	ZBFHK							not used
Z136	ZBFJK							not used
Z137	ZBGHJ							not used
Z138	ZBGHK							not used
Z139	ZBGJK							not used
Z140	ZBHJK							not used
Z141	ZCDEF							not used
Z142	ZCDEG							not used
Z143	ZCDEH							not used
Z144	ZCDEJ							not used
Z145	ZCDEK							not used
Z146	ZCDFG							not used
Z147	ZCDFH							not used
Z148	ZCDFJ							not used
Z149	ZCDFK							not used
Z150	ZCDGH							not used
Z151	ZCDGJ							not used
Z152	ZCDGK	190	2c/o / 2 c/o		R3	12 V	Twin Relay (PO type)	for use as FDM follower
Z153	ZCDHJ							not used
Z154	ZCDHK							not used
Z155	ZCDJK							not used
Z156	ZCEFG							not used
Z157	ZCEFH							not used
Z158	ZCEFJ							not used
Z159	ZCEFK							not used
Z160	ZCEGH							not used
Z161	ZCEGJ							not used
Z162	ZCEGK							not used
Z163	ZCEHJ							not used
Z164	ZCEHK							not used
Z165	ZCEJK							not used
Z166	ZCFGH							not used
Z167	ZCFGJ							not used
Z168	ZCFGK							not used
Z169	ZCFHJ							not used
Z170	ZCFHK							not used
Z171	ZCFJK							not used
Z172	ZCGHJ							not used
Z173	ZCGHK							not used
Z174	ZCGJK							not used
Z175	ZCHJK							not used
Z176	ZDEFG							not used
Z177	ZDEFH							not used
Z178	ZDEFJ							not used
Z179	ZDEFK							not used
Z180	ZDEGH							not used
Z181	ZDEGJ							not used

Table 2 Pin codes allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
Z182	ZDEGK						not used
Z183	ZDEHJ						not used
Z184	ZDEHK						not used
Z185	ZDEJK						not used
Z186	ZDFGH						not used
Z187	ZDFGJ						not used
Z188	ZDFGK						not used
Z189	ZDFHJ						not used
Z190	ZDFHK						not used
Z191	ZDFJK						not used
Z192	ZDGHJ						not used
Z193	ZDGHK						not used
Z194	ZDGJK						not used
Z195	ZDHJK						not used
Z196	ZEFGH						not used
Z197	ZEFGJ						not used
Z198	ZEFGK						not used
Z199	ZEFHJ						not used
Z200	ZEFHK						not used
Z201	ZEFJK						not used
Z202	ZEGHJ						not used
Z203	ZEGHK						not used
Z204	ZEGJK						not used
Z205	ZEHJK						not used
Z206	ZFGHJ						not used
Z207	ZFGHK						not used
Z208	ZFGJK						not used
Z209	ZFHJK						not used
Z210	ZGHJK						not used

Table 3 Pin codes not allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
U001	ABCLW	265	1F / 1F / 1F			24 V	Bell Unit	North Yorks Moors Rly (NYMR) for HD link
U002	ABDLW							not used
U003	ABELW							not used
U004	ABFLW							not used
U005	ABGLW							not used
U006	ABHLW							not used
U007	ABJLW							not used
U008	ABKLW							not used
U009	ACDLW							not used
U010	ACELW							not used
U011	ACFLW							not used
U012	ACGLW							not used
U013	ACHLW							not used
U014	ACJLW							not used
U015	ACKLW							not used
U016	ADELW							not used
U017	ADFLW							not used
U018	ADGLW							not used
U019	ADHLW							not used
U020	ADJLW							not used
U021	ADKLW							not used
U022	AEFLW							not used
U023	AEGLW							not used
U024	AEHLW							not used
U025	AEJLW							not used
U026	AEKLW							not used
U027	AFGLW							not used
U028	AFHLW							not used
U029	AFJLW							not used
U030	AFKLW							not used
U031	AGHLW							not used
U032	AGJLW							not used
U033	AGKLW							not used
U034	AHJLW							not used
U035	AHKLW							not used
U036	AJKLW							not used
U037	BCDLW							not used
U038	BCELW							not used
U039	BCFLW							not used
U040	BCGLW							not used
U041	BCHLW							not used
U042	BCJLW							not used
U043	BCKLW							not used
U044	BDELW							not used
U045	BDFLW							not used
U046	BDGLW							not used
U047	BDHLW							not used
U048	BDJLW							not used
U049	BDKLW							not used

Table 3 Pin codes not allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
U050	BEFLW						not used
U051	BEGLW						not used
U052	BEHLW						not used
U053	BEJLW						not used
U054	BEKLW						not used
U055	BFGLW						not used
U056	BFHLW						not used
U057	BFJLW						not used
U058	BFKLW						not used
U059	BGHLW						not used
U060	BGJLW						not used
U061	BGKLW						not used
U062	BHJLW						not used
U063	BHKLW						not used
U064	BJKLW						not used
U065	CDELW						not used
U066	CDFLW						not used
U067	CDGLW						not used
U068	CDHLW						not used
U069	CDJLW						not used
U070	CDKLW						not used
U071	CEFLW						not used
U072	CEGLW						not used
U073	CEHLW						not used
U074	CEJLW						not used
U075	CEKLW						not used
U076	CFGLW						not used
U077	CFHLW						not used
U078	CFJLW						not used
U079	CFKLW						not used
U080	CGHLW						not used
U081	CGJLW						not used
U082	CGKLW						not used
U083	CHJLW						not used
U084	CHKLW						not used
U085	CJKLW						not used
U086	DEFLW						not used
U087	DEGLW						not used
U088	DEHLW						not used
U089	DEJLW						not used
U090	DEKLW						not used
U091	DFGLW						not used
U092	DFHLW						not used
U093	DFJLW						not used
U094	DFKLW						not used
U095	DGHLW						not used
U096	DGJLW						not used
U097	DGKLW						not used
U098	DHJLW						not used
U099	DHKLW						not used

Table 3 Pin codes not allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
U100	DJKLW						not used
U101	EFGLW						not used
U102	EFHLW						not used
U103	EFJLW						not used
U104	EFKLW						not used
U105	EGHLW						not used
U106	EGJLW						not used
U107	EGKLW						not used
U108	EHJLW						not used
U109	EHKLW						not used
U110	EJKLW						not used
U111	FGHLW						not used
U112	FGJLW						not used
U113	FGKLW						not used
U114	FHJLW						not used
U115	FHKLW						not used
U116	FJKLW						not used
U117	GHJLW						not used
U118	GHKLW						not used
U119	GJKLW						not used
U120	HJKLW						not used
U121	ABCMW						not used
U122	ABDMW						not used
U123	ABEMW						not used
U124	ABFMW						not used
U125	ABGMW						not used
U126	ABHMW						not used
U127	ABJMW						not used
U128	ABKMW						not used
U129	ABLMW						not used
U130	ACDMW						not used
U131	ACEMW						not used
U132	ACFMW						not used
U133	ACGMW						not used
U134	ACHMW						not used
U135	ACJMW						not used
U136	ACKMW						not used
U137	ACLMW						not used
U138	ADEMW						not used
U139	ADFMW						not used
U140	ADGMW						not used
U141	ADHMW						not used
U142	ADJMW						not used
U143	ADKMW						not used
U144	ADLMW						not used
U145	AEFMW						not used
U146	AEGMW						not used
U147	AEHMW						not used
U148	AEJMW						not used
U149	AEKMW						not used

Table 3 Pin codes not allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
U150	AELMW						not used
U151	AFGMW						not used
U152	AFHMW						not used
U153	AFJMW						not used
U154	AFKMW						not used
U155	AFLMW						not used
U156	AGHMW						not used
U157	AGJMW						not used
U158	AGKMW						not used
U159	AGLMW						not used
U160	AHJMW						not used
U161	AHKMW						not used
U162	AHLMW						not used
U163	AJKMW						not used
U164	AJLMW						not used
U165	AKLMW						not used
U166	BCDMW						not used
U167	BCEMW						not used
U168	BCFMW						not used
U169	BCGMW						not used
U170	BCHMW						not used
U171	BCJMW						not used
U172	BCKMW						not used
U173	BCLMW						not used
U174	BDEMW						not used
U175	BDFMW						not used
U176	BDGMW						not used
U177	BDHMW						not used
U178	BDJMW						not used
U179	BDKMW						not used
U180	BDLMW						not used
U181	BEFMW						not used
U182	BEGMW						not used
U183	BEHMW						not used
U184	BEJMW						not used
U185	BEKMW						not used
U186	BELMW						not used
U187	BFGMW						not used
U188	BFHMW						not used
U189	BFJMW						not used
U190	BFKMW						not used
U191	BFLMW						not used
U192	BGHMW						not used
U193	BGJMW						not used
U194	BGKMW						not used
U195	BGLMW						not used
U196	BHJMW						not used
U197	BHKMW						not used
U198	BHLMW						not used
U199	BJKMW						not used

Table 3 Pin codes not allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
U200	BJLMW						not used
U201	BKLMW						not used
U202	CDEMW						not used
U203	CDFMW						not used
U204	CDGMW						not used
U205	CDHMW						not used
U206	CDJMW						not used
U207	CDKMW						not used
U208	CDLMW						not used
U209	CEFMW						not used
U210	CEGMW						not used
U211	CEHMW						not used
U212	CEJMW						not used
U213	CEKMW						not used
U214	CELMW						not used
U215	CFGMW						not used
U216	CFHMW						not used
U217	CFJMW						not used
U218	CFKMW						not used
U219	CFLMW						not used
U220	CGHMW						not used
U221	CGJMW						not used
U222	CGKMW						not used
U223	CGLMW						not used
U224	CHJMW						not used
U225	CHKMW						not used
U226	CHLMW						not used
U227	CJKMW						not used
U228	CJLMW						not used
U229	CKLMW						not used
U230	DEFMW						not used
U231	DEGMW						not used
U232	DEHMW						not used
U233	DEJMW						not used
U234	DEKMW						not used
U235	DELMW						not used
U236	DFGMW						not used
U237	DFHMW						not used
U238	DFJMW						not used
U239	DFKMW						not used
U240	DFLMW						not used
U241	DGHMW						not used
U242	DGJMW						not used
U243	DGKMW						not used
U244	DGLMW						not used
U245	DHJMW						not used
U246	DHKMW						not used
U247	DHLMW						not used
U248	DJKMW						not used
U249	DJLMW						not used

Table 3 Pin codes not allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
U250	DKLMW						not used
U251	EFGMW						not used
U252	EFHMW						not used
U253	EFJMW						not used
U254	EFKMW						not used
U255	EFLMW						not used
U256	EGHMW						not used
U257	EGJMW						not used
U258	EGKMW						not used
U259	EGLMW						not used
U260	EHJMW						not used
U261	EHKMW						not used
U262	EHLMW						not used
U263	EJKMW						not used
U264	EJLMW						not used
U265	EKLMW						not used
U266	FGHMW						not used
U267	FGJMW						not used
U268	FGKMW						not used
U269	FGLMW						not used
U270	FHJMW						not used
U271	FHKMW						not used
U272	FHLMW						not used
U273	FJKMW						not used
U274	FJLMW						not used
U275	FKLMW						not used
U276	GHJMW						not used
U277	GHKMW						not used
U278	GHLMW						not used
U279	GJKMW						not used
U280	GJLMW						not used
U281	GKLMW						not used
U282	HJKMW						not used
U283	HJLMW						not used
U284	HKLMW						not used
U285	JKLMW						not used
U286	ABCNW						not used
U287	ABDNW						not used
U288	ABENW						not used
U289	ABFNW						not used
U290	ABGNW						not used
U291	ABHNW						not used
U292	ABJNW						not used
U293	ABKNW						not used
U294	ABLNW						not used
U295	ABMNW						not used
U296	ACDNW						not used
U297	ACENW						not used
U298	ACFNW						not used
U299	ACGNW						not used

Table 3 Pin codes not allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
U300	ACHNW						not used
U301	ACJNW						not used
U302	ACKNW						not used
U303	ACLNW						not used
U304	ACMNW						not used
U305	ADENW						not used
U306	ADFNW						not used
U307	ADGNW						not used
U308	ADHNW						not used
U309	ADJNW						not used
U310	ADKNW						not used
U311	ADLNW						not used
U312	ADMNW						not used
U313	AEFNW						not used
U314	AEGNW						not used
U315	AEHNW						not used
U316	AEJNW						not used
U317	AEKNW						not used
U318	AELNW						not used
U319	AEMNW						not used
U320	AFGNW						not used
U321	AFHNW						not used
U322	AFJNW						not used
U323	AFKNW						not used
U324	AFLNW						not used
U325	AFMNW						not used
U326	AGHNW						not used
U327	AGJNW						not used
U328	AGKNW						not used
U329	AGLNW						not used
U330	AGMNW						not used
U331	AHJNW						not used
U332	AHKNW						not used
U333	AHLNW						not used
U334	AHMNW						not used
U335	AJKNW						not used
U336	AJLNW						not used
U337	AJLMNW						not used
U338	AKLNW						not used
U339	AKMNW						not used
U340	ALMNW						not used
U341	BCDNW						not used
U342	BCENW						not used
U343	BCFNW						not used
U344	BCGNW						not used
U345	BCHNW						not used
U346	BCJNW						not used
U347	BCKNW						not used
U348	BCLNW						not used
U349	BCMNW						not used

Table 3 Pin codes not allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
U350	BDENW						not used
U351	BDFNW						not used
U352	BDGNW						not used
U353	BDHNW						not used
U354	BDJNW						not used
U355	BDKNW						not used
U356	BDLNW						not used
U357	BDMNW						not used
U358	BEFNW						not used
U359	BEGNW						not used
U360	BEHNW						not used
U361	BEJNW						not used
U362	BEKNW						not used
U363	BELNW						not used
U364	BEMNW						not used
U365	BFGNW						not used
U366	BFHNW						not used
U367	BFJNW						not used
U368	BFKNW						not used
U369	BFLNW						not used
U370	BFMNW						not used
U371	BGHNW						not used
U372	BGJNW						not used
U373	BGKNW						not used
U374	BGLNW						not used
U375	BGMNW						not used
U376	BHJNW						not used
U377	BHKNW						not used
U378	BHLNW						not used
U379	BHMNW						not used
U380	BJKNW						not used
U381	BJLNW						not used
U382	BJMNW						not used
U383	BKLNW						not used
U384	BKMNW						not used
U385	BLMNW						not used
U386	CDENW						not used
U387	CDFNW						not used
U388	CDGNW						not used
U389	CDHNW						not used
U390	CDJNW						not used
U391	CDKNW						not used
U392	CDLNW						not used
U393	CDMNW						not used
U394	CEFNW						not used
U395	CEGNW						not used
U396	CEHNW						not used
U397	CEJNW						not used
U398	CEKNW						not used
U399	CELNW						not used

Table 3 Pin codes not allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
U400	CEMNW						not used
U401	CFGNW						not used
U402	CFHNW						not used
U403	CFJNW						not used
U404	CFKNW						not used
U405	CFLNW						not used
U406	CFMNW						not used
U407	CGHNW						not used
U408	CGJNW						not used
U409	CGKNW						not used
U410	CGLNW						not used
U411	CGMNW						not used
U412	CHJNW						not used
U413	CHKNW						not used
U414	CHLNW						not used
U415	CHMNW						not used
U416	CJKNW						not used
U417	CJLNW						not used
U418	CJMNW						not used
U419	CKLNW						not used
U420	CKMNW						not used
U421	CLMNW						not used
U422	DEFNW						not used
U423	DEGNW						not used
U424	DEHNW						not used
U425	DEJNW						not used
U426	DEKNW						not used
U427	DELNW						not used
U428	DEMNW						not used
U429	DFGNW						not used
U430	DFHNW						not used
U431	DFJNW						not used
U432	DFKNW						not used
U433	DFLNW						not used
U434	DFMNW						not used
U435	DGHNW						not used
U436	DGJNW						not used
U437	DGKNW						not used
U438	DGLNW						not used
U439	DGMNW						not used
U440	DHJNW						not used
U441	DHKNW						not used
U442	DHLNW						not used
U443	DHMNW						not used
U444	DJKNW						not used
U445	DJLNW						not used
U446	DJMNW						not used
U447	DKLNW						not used
U448	DKMNW						not used
U449	DLMNW						not used

Table 3 Pin codes not allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
U450	EFGNW						not used
U451	EFHNW						not used
U452	EFJNW						not used
U453	EFGNW						not used
U454	EFLNW						not used
U455	EFMNW						not used
U456	EGHNW						not used
U457	EGJNW						not used
U458	EGKNW						not used
U459	EGLNW						not used
U460	EGMNW						not used
U461	EHJNW						not used
U462	EHKNW						not used
U463	EHLNW						not used
U464	EHMNW						not used
U465	EJKNW						not used
U466	EJLNW						not used
U467	EJMNW						not used
U468	EKLNW						not used
U469	EKMNW						not used
U470	ELMNW						not used
U471	FGHNW						not used
U472	FGJNW						not used
U473	FGKNW						not used
U474	FGLNW						not used
U475	FGMNW						not used
U476	FHJNW						not used
U477	FHKNW						not used
U478	FHLNW						not used
U479	FHMNW						not used
U480	FJKNW						not used
U481	FJLNW						not used
U482	FJMNW						not used
U483	FKLNW						not used
U484	FKMNW						not used
U485	FLMNW						not used
U486	GHJNW						not used
U487	GHKNW						not used
U488	GHLNW						not used
U489	GHMNW						not used
U490	GJKNW						not used
U491	GJLNW						not used
U492	GJMNW						not used
U493	GKLNW						not used
U494	GKMNW						not used
U495	GLMNW						not used
U496	HJKNW						not used
U497	HJLNW						not used
U498	HJMNW						not used
U499	HKLNW						not used

Table 3 Pin codes not allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)		Specification	Style	Rating	Description	Remarks
U500	HKMNW							not used
U501	HLMNW							not used
U502	JKLNW							not used
U503	JKMNW							not used
U504	JLMNW							not used
U505	KLMNW							not used
U506 to U510	no code							
U511	CFKMX	48	4F 4B	(BR 940) [16]	EC	0.4 A	D.C. Lamp Proving Relay	for 110 V 12 W LEDs (used by Mors Smitt)
U512 to U520	no code							
U521	ABCDEL							not used
U522	ABCDFL							not used
U523	ABCDGL							not used
U524	ABCDHL							not used
U525	ABCDJL							not used
U526	ABCDKL							not used
U527	ABCEFL							not used
U528	ABCEGL							not used
U529	ABCEHL							not used
U530	ABCEJL							not used
U531	ABCEKL							not used
U532	ABCFGL							not used
U533	ABCFHL							not used
U534	ABCFJL							not used
U535	ABCFKL							not used
U536	ABCGHL							not used
U537	ABCGJL							not used
U538	ABCGKL							not used
U539	ABCHJL							not used
U540	ABCHKL							not used
U541	ABCJKL							not used
U542	ABDEFL							not used
U543	ABDEGL							not used
U544	ABDEHL							not used
U545	ABDEJL							not used
U546	ABDEKL							not used
U547	ABDFGL							not used
U548	ABDFHL							not used
U549	ABDFJL							not used
U550	ABDFKL							not used
U551	ABDGHL							not used
U552	ABDGJL							not used
U553	ABDGKL							not used
U554	ABDHJL							not used
U555	ABDHKL							not used
U556	ABDJKL							not used
U557	ABEFGJL							not used

Table 3 Pin codes not allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
U558	ABEFHL	266				Capacitor Unit	for NYMR
U559	ABEFJL						not used
U560	ABEFKL						not used
U561	ABEGHL						not used
U562	ABEGJL						not used
U563	ABEGKL						not used
U564	ABEHJL						not used
U565	ABEHKL						not used
U566	ABEJKL						not used
U567	ABFGHL						not used
U568	ABFGJL						not used
U569	ABFGKL						not used
U570	ABFHJL						not used
U571	ABFHKL						not used
U572	ABFJKL						not used
U573	ABGHJL						not used
U574	ABGHKL						not used
U575	ABGJKL						not used
U576	ABHJKL						not used
U577	ACDEFL						not used
U578	ACDEGL						not used
U579	ACDEHL						not used
U580	ACDEJL						not used
U581	ACDEKL						not used
U582	ACDFGL						not used
U583	ACDFHL						not used
U584	ACDFJL						not used
U585	ACDFKL						not used
U586	ACDGHL						not used
U587	ACDGJL						not used
U588	ACDGKL						not used
U589	ACDHJL						not used
U590	ACDHKL						not used
U591	ACDJKL						not used
U592	ACEFGL						not used
U593	ACEFHL						not used
U594	ACEFJL						not used
U595	ACEFKL						not used
U596	ACEGHL						not used
U597	ACEGJL						not used
U598	ACEGKL						not used
U599	ACEHJL						not used
U600	ACEHKL						not used
U601	ACEJKL						not used
U602	ACFGHL						not used
U603	ACFGJL						not used
U604	ACFGKL						not used
U605	ACFHJL						not used
U606	ACFHKL						not used
U607	ACFJKL						not used

Table 3 Pin codes not allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
U608	ACGHJL						not used
U609	ACGHKL						not used
U610	ACGJKL						not used
U611	ACHJKL						not used
U612	ADEFGL						not used
U613	ADEFHL						not used
U614	ADEFJL						not used
U615	ADEFKL						not used
U616	ADEGHL						not used
U617	ADEGJL						not used
U618	ADEGKL						not used
U619	ADEHJL						not used
U620	ADEHKL						not used
U621	ADEJKL						not used
U622	ADFGHL						not used
U623	ADFGJL						not used
U624	ADFGKL						not used
U625	ADFHJL						not used
U626	ADFHKL						not used
U627	ADFJKL						not used
U628	ADGHJL						not used
U629	ADGHKL						not used
U630	ADGJKL						not used
U631	ADHJKL						not used
U632	AEFGHL						not used
U633	AEFGJL						not used
U634	AEFGKL						not used
U635	AEFHJL						not used
U636	AEFHKL						not used
U637	AEFJKL						not used
U638	AEGHJL						not used
U639	AEGHKL						not used
U640	AEGJKL						not used
U641	AEHJKL						not used
U642	AFGHJL						not used
U643	AFGHKL						not used
U644	AFGJKL						not used
U645	AFHJKL						not used
U646	AGHJKL						not used
U647	ABCDEM						not used
U648	ABCDFM						not used
U649	ABCDGM						not used
U650	ABCDHM						not used
U651	ABCDJM						not used
U652	ABCDKM						not used
U653	ABCDLM						not used
U654	ABCEFM						not used
U655	ABCEGM						not used
U656	ABCEHM						not used
U657	ABCEJM						not used

Table 3 Pin codes not allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
U658	ABCEKM						not used
U659	ABCELM						not used
U660	ABCFGM						not used
U661	ABCFHM						not used
U662	ABCFJM						not used
U663	ABCFKM						not used
U664	ABCFLM						not used
U665	ABCGHM						not used
U666	ABCGJM						not used
U667	ABCGKM						not used
U668	ABCGLM						not used
U669	ABCHJM						not used
U670	ABCHKM						not used
U671	ABCHLM						not used
U672	ABCJKM						not used
U673	ABCJLM						not used
U674	ABCKLM						not used
U675	ABDEFM						not used
U676	ABDEGM						not used
U677	ABDEHM						not used
U678	ABDEJM						not used
U679	ABDEKM						not used
U680	ABDELM						not used
U681	ABDFGM						not used
U682	ABDFHM						not used
U683	ABDFJM						not used
U684	ABDFKM						not used
U685	ABDFLM						not used
U686	ABDGHM						not used
U687	ABDGJM						not used
U688	ABDGKM						not used
U689	ABDGLM						not used
U690	ABDHJM						not used
U691	ABDHKM						not used
U692	ABDHLM						not used
U693	ABDJKM						not used
U694	ABDJLM						not used
U695	ABDKLM						not used
U696	ABEFGM						not used
U697	ABEFHM						not used
U698	ABEFJM						not used
U699	ABEFKM						not used
U700	ABEFLM						not used
U701	ABEGHM						not used
U702	ABEGJM						not used
U703	ABEGKM						not used
U704	ABEGLM						not used
U705	ABEHJM						not used
U706	ABEHKM						not used
U707	ABEHLM						not used

Table 3 Pin codes not allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
U708	ABEJKM						not used
U709	ABEJLM						not used
U710	ABEKLM						not used
U711	ABFGHM						not used
U712	ABFGJM						not used
U713	ABFGKM						not used
U714	ABFGLM						not used
U715	ABFHJM						not used
U716	ABFHKM						not used
U717	ABFHLM						not used
U718	ABFJKM						not used
U719	ABFJLM						not used
U720	ABFKLM						not used
U721	ABGHJM						not used
U722	ABGHKM						not used
U723	ABGHLM						not used
U724	ABGJKM						not used
U725	ABGJLM						not used
U726	ABGKLM						not used
U727	ABHJKM						not used
U728	ABHJLM						not used
U729	ABJKLM						not used
U730	ACDEFM						not used
U731	ACDEGM						not used
U732	ACDEHM						not used
U733	ACDEJM						not used
U734	ACDEKM						not used
U735	ACDELM						not used
U736	ACDFGM						not used
U737	ACDFHM						not used
U738	ACDFJM						not used
U739	ACDFKM						not used
U740	ACDFLM						not used
U741	ACDGHM						not used
U742	ACDGJM						not used
U743	ACDGKM						not used
U744	ACDGLM						not used
U745	ACDHJM						not used
U746	ACDHKM						not used
U747	ACDHLM						not used
U748	ACDJKM						not used
U749	ACDJLM						not used
U750	ACDKLM						not used
U751	ACEFGM						not used
U752	ACEFHM						not used
U753	ACEFJM						not used
U754	ACEFKM						not used
U755	ACEFLM						not used
U756	ACEGHM						not used
U757	ACEGJM						not used

Table 3 Pin codes not allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
U758	ACEGKM						not used
U759	ACEGLM						not used
U760	ACEHJM						not used
U761	ACEHKM						not used
U762	ACEHLM						not used
U763	ACEJKM						not used
U764	ACEJLM						not used
U765	ACEKLM						not used
U766	ACFGHM						not used
U767	ACFGJM						not used
U768	ACFGKM						not used
U769	ACFGLM						not used
U770	ACFHJM						not used
U771	ACFHKM						not used
U772	ACFHLM						not used
U773	ACFJKM						not used
U774	ACFJLM						not used
U775	ACFKLM						not used
U776	ACGHJM						not used
U777	ACGHKM						not used
U778	ACGHLM						not used
U779	ACGJKM						not used
U780	ACGJLM						not used
U781	ACGKLM						not used
U782	ADEFGM						not used
U783	ADEFHM						not used
U784	ADEFJM						not used
U785	ADEFKM						not used
U786	ADEFML						not used
U787	ADEGHM						not used
U788	ADEGJM						not used
U789	ADEGKM						not used
U790	ADEGLM						not used
U791	ADEHJM						not used
U792	ADEHKM						not used
U793	ADEHLM						not used
U794	ADEJKM						not used
U795	ADEJLM						not used
U796	ADEKLM						not used
U797	ADFGHM						not used
U798	ADFGJM						not used
U799	ADFGKM						not used
U800	ADFGLM						not used
U801	ADFHJM						not used
U802	ADFHKM						not used
U803	ADFHLM						not used
U804	ADFJKM						not used
U805	ADFJLM						not used
U806	ADFKLM						not used
U807	ADGHJM						not used

Table 3 Pin codes not allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
U808	ADGHKM						not used
U809	ADGHLM						not used
U810	ADGJKM						not used
U811	ADGJLM						not used
U812	ADGKLM						not used
U813	ADHJKM						not used
U814	ADHJLM						not used
U815	ADHKLM						not used
U816	ADJKLM						not used
U817	AEFGHM						not used
U818	AEFGJM						not used
U819	AEFGKM						not used
U820	AEFGLM						not used
U821	AEFHJM						not used
U822	AEFHKM						not used
U823	AEFHLM						not used
U824	AEFJKM						not used
U825	AEFJLM						not used
U826	AEFKLM						not used
U827	AEGHJM						not used
U828	AEGHKM						not used
U829	AEGHLM						not used
U830	AEGJKM						not used
U831	AEGJLM						not used
U832	AEGKLM						not used
U833	AEHJKM						not used
U834	AEHJLM						not used
U835	AEHKLM						not used
U836	AEJKLM						not used
U837	AFGHJM						not used
U838	AFGHKM						not used
U839	AFGHLM						not used
U840	AFGJKM						not used
U841	AFGJLM						not used
U842	AFGKLM						not used
U843	AFHJKM						not used
U844	AFHJLM						not used
U845	AFHKLM						not used
U846	AFJKLM						not used
U847	AGHJKM						not used
U848	AGHJLM						not used
U849	AGHKLM						not used
U850	AGJKLM						not used
U851	AHJKLM						not used
U852	ABCDEN						not used
U853	ABCDFN						not used
U854	ABCDGN						not used
U855	ABCDHN						not used
U856	ABCDJN						not used
U857	ABCDKN						not used

Table 3 Pin codes not allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
U858	ABCDLN						not used
U859	ABCDMN						not used
U860	ABCEFN						not used
U861	ABCEGN						not used
U862	ABCEHN						not used
U863	ABCEJN						not used
U864	ABCEKN						not used
U865	ABCELN						not used
U866	ABCEMN						not used
U867	ABCFGN						not used
U868	ABCFHN						not used
U869	ABCFJN						not used
U870	ABCFKN						not used
U871	ABCFLN						not used
U872	ABCFMN						not used
U873	ABCGHN						not used
U874	ABCGJN						not used
U875	ABCGKN						not used
U876	ABCGLN						not used
U877	ABCGMN						not used
U878	ABCHJN						not used
U879	ABCHKN						not used
U880	ABCHLN						not used
U881	ABCHMN						not used
U882	ABCJKN						not used
U883	ABCJLN						not used
U884	ABCJMN						not used
U885	ABCKLN						not used
U886	ABCKMN						not used
U887	ABCLMN						not used
U888	ABDEFN						not used
U889	ABDEGN						not used
U890	ABDEHN						not used
U891	ABDEJN						not used
U892	ABDEKN						not used
U893	ABDELN						not used
U894	ABDEM N						not used
U895	ABDFGN						not used
U896	ABDFHN						not used
U897	ABDFJN						not used
U898	ABDFKN						not used
U899	ABDFLN						not used
U900	ABDFMN						not used
U901	ABDGHN						not used
U902	ABDGJN						not used
U903	ABDGKN						not used
U904	ABDG LN						not used
U905	ABDGMN						not used
U906	ABDHJN						not used
U907	ABDHKN						not used

Table 3 Pin codes not allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
U908	ABDHLN						not used
U909	ABDHMN						not used
U910	ABDJKN						not used
U911	ABDJLN						not used
U912	ABDJMN						not used
U913	ABDKLN						not used
U914	ABDKMN						not used
U915	ABDLMN						not used
U916	ABEFGN						not used
U917	ABEFHN						not used
U918	ABEFJN						not used
U919	ABEFKN						not used
U920	ABEFLN						not used
U921	ABEFMN						not used
U922	ABEGHN						not used
U923	ABEGJN						not used
U924	ABEGKN						not used
U925	ABEGLN						not used
U926	ABEGMN						not used
U927	ABEHJN						not used
U928	ABEHKN						not used
U929	ABEHLN						not used
U930	ABEHMN						not used
U931	ABEJKN						not used
U932	ABEJLN						not used
U933	ABEJMN						not used
U934	ABEKLN						not used
U935	ABEKMN						not used
U936	ABELMN						not used
U937	ABFGHN						not used
U938	ABFGJN						not used
U939	ABFGKN						not used
U940	ABFGLN						not used
U941	ABFGMN						not used
U942	ABFHJN						not used
U943	ABFHKN						not used
U944	ABFHLN						not used
U945	ABFHMN						not used
U946	ABFJKN						not used
U947	ABFJLN						not used
U948	ABFJMN						not used
U949	ABFKLN						not used
U950	ABFKMN						not used
U951	ABFLMN						not used
U952	ABGHJN						not used
U953	ABGHKN						not used
U954	ABGHLN						not used
U955	ABGHMN						not used
U956	ABGJKN						not used
U957	ABGJLN						not used

Table 3 Pin codes not allocated to specific suppliers and their associated arrangements

Pin code	Pin Code Configuration	Arrangement (see Annex A)	Specification	Style	Rating	Description	Remarks
U958	ABGJMN						not used
U959	ABGKLN						not used
U960	ABGKMN						not used
U961	ABGLMN						not used
U962	ABHJKN						not used
U963	ABHJLN						not used
U964	ABHJMN						not used
U965	ABHKLN						not used
U966	ABHKMN						not used
U967	ABHLMN						not used
U968	ABJKLN						not used
U969	ABJKMN						not used
U970	ABJLMN						not used
U971	ABKLMN						not used
U972	ACDEFN						not used
U973	ACDEGN						not used
U974	ACDEHN						not used
U975	ACDEJN						not used
U976	ACDEKN						not used
U977	ACDELN						not used
U978	ACDEM N						not used
U979	ACDFGN						not used
U980	ACDFHN						not used
U981	ACDFJN						not used
U982	ACDFKN						not used
U983	ACDFLN						not used
U984	ACDFMN						not used
U985	ACDGHN						not used
U986	ACDGJN						not used
U987	ACDGKN						not used
U988	ACDGLN						not used
U989	ACDGMN						not used
U990	ACDHJN						not used
U991	ACDHKN						not used
U992	ACDHLN						not used
U993	ACDHMN						not used
U994	ACDJKN						not used
U995	ACDJLN						not used
U996	ACDJMN						not used
U997	ACDKLN						not used
U998	ACDKMN						not used
U999	ACDLMN						not used

Annex A
(informative)

Arrangement of contacts and other connections

The arrangements given in Table A.1 show the contact, coil and other connections to the plugboards as viewed from the rear (wiring side). The shaded positions are not used.

Table A.1 Arrangements of contact, coil and other connections

Arr. 1					Arr. 2					Arr. 3				
	A	B	C	D		A	B	C	D		A	B	C	D
1	F	F		F	1	F	F		F	1	F	F	F	F
2	A	A		A	2	A	A		A	2	A	A	A	A
3	F	F		F	3	F	F		F	3	F	F	F	F
4	A	A		A	4	A	A		A	4	A	A	A	A
5	A	F		A	5	A	F		A	5	A	F	F	A
6	B	A		B	6	B	A		B	6	B	A	A	B
7	A	F		A	7	A	F		A	7	A	F	F	A
8	B	A		B	8	B	A		B	8	B	A	A	B
R1	C			C	R1	C1			C1	R1	C			C
R3					R3	C2			C2	R3				
8F 4B Single Wound					8F 4B Double Wound					12F 4B Single Wound				
Arr. 4					Arr. 5					Arr. 6				
	A	B	C	D		A	B	C	D		A	B	C	D
1	F	F	F	F	1	F			F	1	F			F
2	A	A	A	A	2	A			A	2	A			A
3	F	F	F	F	3	F			F	3	F			F
4	A	A	A	A	4	A			A	4	A			A
5	A	F	F	A	5	A			A	5	A			A
6	B	A	A	B	6	B			B	6	B			B
7	A	F	F	A	7	A			A	7	A			A
8	B	A	A	B	8	B			B	8	B			B
R1	C1			C1	R1	C			C	R1	C1			C1
R3	C2			C2	R3					R3	C2			C2
12F 4B Double Wound					4F 4B Single Wound					4F 4B Double Wound				
Arr. 7					Arr. 8					Arr. 9				
	A	B	C	D		A	B	C	D		A	B	C	D
1	F	F		F	1	F	F		F	1	F	F	F	F
2	A	A		A	2	A	A		A	2	A	A	A	A
3	F	F		F	3	F	F		F	3	F	F	F	F
4	A	A		A	4	A	A		A	4	A	A	A	A
5	A	A		A	5	A	A		A	5	A	A	A	A
6	B	B		B	6	B	B		B	6	B	B	B	B
7	A	A		A	7	A	A		A	7	A	A	A	A
8	B	B		B	8	B	B		B	8	B	B	B	B
R1	C			C	R1	C1			C1	R1	C			C
R3					R3	C2			C2	R3				
6F 6B Single Wound					6F 6B Double Wound					8F 8B Single Wound				

Table A.1 Arrangements of contact, coil and other connections

Arr. 10					Arr. 11					Arr. 12				
	A	B	C	D		A	B	C	D		A	B	C	D
1					1	F	F	F	F	1				
2					2	A	A	A	A	2				
3					3	F	F	F	F	3				
4					4	A	A	A	A	4				
5	A			A	5	A	A	A	A	5	A	A	A	A
6	B			B	6	B	B	B	B	6	B	B	B	B
7	A			A	7	A	A	A	A	7	A	A	A	A
8	B			B	8	B	B	B	B	8	B	B	B	B
R1					R1	C1			C1	R1				
R3					R3	C2			C2	R3				
	4B Shorting Unit					8F 8B Double Wound					8B Shorting Unit			
For Magnetically Latched Relay:														
Pick-up Coil R1 R2														
Release Coil R3 R4														
Arr. 13					Arr. 14					Arr. 15				
	A	B	C	D		A	B	C	D		A	B	C	D
1	F	F	F	F	1					1	N	N	N	N
2	A	A	A	A	2					2	A	A	A	A
3	F	F	F	F	3					3	N	N	N	N
4	A	A	A	A	4					4	A	A	A	A
5	A		A	A	5	A		A	A	5	A	N	N	A
6	B		B	B	6	B		B	B	6	R	A	A	R
7	A		A	A	7	A		A	A	7	A	N	N	A
8	B		B	B	8	B		B	B	8	R	A	A	R
R1	PU			PU	R1					R1	PU			PU
R3	REL			REL	R3					R3	REL			REL
	8F 6B Double Wound					6B Shorting Unit					12N 4R Double Wound			
Arr. 16					Arr. 17					Arr. 18				
	A	B	C	D		A	B	C	D		A	B	C	D
1	N			N	1	N	N	N	N	1	F			F
2	A			A	2	A	A	A	A	2	A			A
3	N			N	3	N	N	N	N	3	F			F
4	A			A	4	A	A	A	A	4	A			A
5	A			A	5	A	A	A	A	5	A			A
6	R			R	6	R	R	R	R	6	B			B
7	A			A	7	A	A	A	A	7	A			A
8	R			R	8	R	R	R	R	8	B			B
R1	C1			C1	R1	C1			C1	R1	C1			C1
R3	C2			C2	R3	C2			C2	R3	C2			C2
	4N 4R Double Wound					8N 8R Double Wound					2F 2B / 2F 2B Twin Single Wound			

Table A.1 Arrangements of contact, coil and other connections

Arr. 19					Arr. 20					Arr. 21						
	A	B	C	D		A	B	C	D		A	B	C	D		
1	F	F	F	F	1	F	F	F	F	1	AC			AC		
2	A	A	A	A	2	A	A	A	A	2						
3	F	F	F	F	3	F	F	F	F	3						
4	A	A	A	A	4	A	A	A	A	4	+ve			-ve		
5	A	A	A	A	5	A	F	F	A	5						
6	B	B	B	B	6	B	A	A	B	6						
7	A	A	A	A	7	A	F	F	A	7						
8	B	B	B	B	8	B	A	A	B	8						
R1	C1			C1	R1	C1			C1	R1						
R3	C2			C2	R3	C2			C2	R3						
4F 4B / 4F 4B Twin Single Wound					6F 2B / 6F 2B Twin Single Wound					Unit						
Arr. 22					Arr. 23					Arr. 24						
	A	B	C	D		A	B	C	D		A	B	C	D		
1	F			F	1	F				1	*1					
2	A			A	2	A				2	*2					
3	F			F	3	F				3	F					
4	A			A	4	A				4	A					
5					5	A				5	A					
6					6	B				6	B					
7					7	*1				7	*3					
8					8	*2				8	*4					
R1	C1			C1	R1	*3			*5	R1	*4					
R3	C2			C2	R3	*4			*6	R3	*5					
2F / 2F Twin Single Wound					2F 1B + Thermal					1F 1B + Thermal						
					*1	Thermal Element					*1	Cold Contact				
					*2	Cold Contact					*2	Thermal Common				
					*3	Thermal Common					*3	Thermal Element				
					*4	Hot Contact & Coil					*4	Hot Contact				
					*5	Thermal Element & Coil					*5	Thermal Element & Coil				
					*6	Thermal Common										

Table A.1 Arrangements of contact, coil and other connections

Arr. 25					Arr. 26					Arr. 27				
	A	B	C	D		A	B	C	D		A	B	C	D
1	F	F	F	F	1	F	F	F	F	1	F	F		F
2	A	A	A	A	2	A	A	A	A	2	A	A		A
3					3	F	F	F	F	3	F	F		F
4					4	A	A	A	A	4	A	A		A
5	A	A	A	A	5	A	A	A	A	5	A	F		A
6	B	B	B	B	6	B	B	B	B	6	B	A		B
7					7					7	A	F		A
8					8					8	B	A		B
R1	C			C	R1	C			C	R1	PU			PU
R3					R3					R3	REL			REL
4F 4B Single Wound					8F 4B Single Wound					8F 4B Double Wound				
Arr. 28					Arr. 29					Arr. 30				
	A	B	C	D		A	B	C	D		A	B	C	D
1	F	F	F	F	1	F	F	F	F	1	F	F	F	F
2	A	A	A	A	2	A	A	A	A	2	A	A	A	A
3	F	F	F	F	3	F	F	F	F	3	F	F	F	F
4	A	A	A	A	4	A	A	A	A	4	A	A	A	A
5	A	F	F	A	5	A	F	F	A	5	A	A	A	A
6	B	A	A	B	6	B	A	A	B	6	B	B	B	B
7	A		F	A	7	A	F	F	A	7	A	A	A	A
8	B		A	B	8	B	A	A	B	8	B	B	B	B
R1	PU			PU	R1	PU			PU	R1	PU			PU
R3	REL			REL	R3	REL			REL	R3	REL			REL
11F 4B Double Wound					12F 4B Double Wound					8F 8B Double Wound				
Arr. 31					Arr. 32					Arr. 33				
	A	B	C	D		A	B	C	D		A	B	C	D
1	F	F	F	F	1	F			F	1	F	F	F	F
2	A	A	A	A	2	A			A	2	A	A	A	A
3	F	F	F	F	3	F			F	3	F	F	F	F
4	A	A	A	A	4	A			A	4	A	A	A	A
5	A	A	A	A	5	A			A	5	A	A	A	A
6	B	B	B	B	6	B			B	6	B	B	B	B
7					7	C1			C3	7	C1	A	A	C3
8					8	C1			C3	8	C1	B	B	C3
R1	C			C	R1	C2			C4	R1	C2			C4
R3					R3	C2			C4	R3	C2			C4
8F 4B Single Wound					2F 1B / 2F 1B Twin Double Wound					4F 3B / 4F 3B Twin Double Wound				

Table A.1 Arrangements of contact, coil and other connections

Arr. 34					Arr. 35					Arr. 36				
	A	B	C	D		A	B	C	D		A	B	C	D
1	F	F	F	F	1					1				
2	A	A	A	A	2					2				
3	F	F	F	F	3					3				
4	A	A	A	A	4					4				
5	A	F	F	A	5	A			A	5	A	A	A	A
6	B	A	A	B	6	B			B	6	B	B	B	B
7	C1	F	F	C3	7					7		A	A	
8	C1	A	A	C3	8					8		B	B	
R1	C2			C4	R1					R1				
R3	C2			C4	R3					R3				
6F 1B / 6F 1B					1B / 1B					3B / 3B				
Twin Double Wound					Shorting Unit					Shorting Unit				
Arr. 37					Arr. 38					Arr. 39				
	A	B	C	D		A	B	C	D		A	B	C	D
1	F			F	1					1	+			-
2	A			A	2					2	+			-
3	F			F	3	F			F	3	+			-
4	A			A	4	A			A	4	+			-
5					5	A			A	5	+			-
6					6	B			B	6	+			-
7					7					7	+			-
8					8					8	+			-
R1	C			C	R1	C			C	R1	*1			
R3					R3					R3				*1
4F					2F 2B					Unit				
Single Wound					Single Wound					Components to be added A1-D1, etc. as required Resistor				

*1

Table A.1 Arrangements of contact, coil and other connections

Arr. 46					Arr. 47					Arr. 48				
	A	B	C	D		A	B	C	D		A	B	C	D
1	F	F	*1	F	1	F			F	1	F	F	F	F
2	A	A	*1	A	2	A			A	2	A	A	A	A
3	F	F	*2	F	3					3	A	A	A	A
4	A	A	*2	A	4					4	B	B	B	B
5	A	A	*3	F	5					5				
6	B	B	*4	A	6					6				
7	A	A	*5	A	7					7				
8	B	B	*6	B	8					8				
R1	C1			C2	R1	C2			C2	R1	C			C
R3	C1			C2	R3	C1			C1	R3				
3F 1B / 4F 4B					2F					4F 4B				
Twin Single Wound + Thermal					Double Wound					Single Wound				
*1	Heater 1													
*2	Heater 2													
*3	Thermal Front													
*4	Thermal Arm													
*5	Thermal Arm													
*6	Thermal Back													

Arr. 49					Arr. 50					Arr. 51				
	A	B	C	D		A	B	C	D		A	B	C	D
1	*1				1	F	F	F		1	F	F	F	
2	*2				2	A	A	A		2	A	A	A	
3	F				3	F	F	F		3	F	F	F	
4	A				4	A	A	A		4	A	A	A	
5	A				5	A	F	A		5	A	A	A	
6	B				6	B	A	B		6	B	B	B	
7	*3				7	A	F	*1		7	A	A	*1	
8	*4				8	B	A	*2		8	B	B	*2	
R1	*5				R1					R1				
R3	*6				R3					R3				
1F 1B					2F 1B / 6F 2B					2F 1B / 4F 4B				
+Thermal					+Thermal					+Thermal				
*1	Cold Contact				*1	Thermal Element				*1	Thermal Element			
*2	Coil				*2	Cold Contact				*2	Cold Contact			
*3	Thermal Element													
*4	Hot Contact													
*5	Hot Contact													
*6	Thermal Element & Coil													

Table A.1 Arrangements of contact, coil and other connections

Arr. 58					Arr. 59					Arr. 60				
	A	B	C	D		A	B	C	D		A	B	C	D
1			*2	*1	1		a.c.			1		a.c.		
2			*1	*2	2		a.c.			2				
3			*3	*1	3					3		a.c.		
4			*1	*4	4					4				
5			*3	*1	5					5				
6			*1	*4	6					6				
7			*5	*1	7		d.c.			7		d.c.		
8			*5	*1	8		d.c.			8		d.c.		
R1	*6			*7	R1					R1				
R3	*7				R3					R3				

Arr. 61					Arr. 62					Arr. 63				
	A	B	C	D		A	B	C	D		A	B	C	D
1		a.c.			1			a.c.		1		a.c.		
2					2			a.c.		2				
3					3					3				
4		a.c.			4					4				
5					5					5		a.c.		
6					6					6				
7		d.c.			7		d.c.			7		d.c.		
8		d.c.			8		d.c.			8		d.c.		
R1					R1					R1				
R3					R3					R3				

- *1 External straps to select time setting
- *2 External Strap C1-D2
- *3 External Strap C3-C5
- *4 External Strap D4-D6
- *5 External Relay Coil
- *6 N50
- *7 B50 (Control)

Table A.1 Arrangements of contact, coil and other connections

Arr. 70					Arr. 71					Arr. 72				
	A	B	C	D		A	B	C	D		A	B	C	D
1					1		*1	F	F	1	*1			*1
2					2		*1	A	A	2				
3					3		*1	F	F	3				
4					4		*1	A	A	4				
5					5		*1	F	A	5				
6					6		*1	A	B	6				
7					7		*1	F	A	7				
8					8		*1	A	B	8				
R1	AC			DC	R1				*1	R1				R2
R3	AC			DC	R3				*1	R3				R4

Arr. 73					Arr. 74					Arr. 75				
	A	B	C	D		A	B	C	D		A	B	C	D
1	*1	*5		*6	1	F		*1	F	1	F	F	*1	
2	*1	*5		*7	2	A		+ve	A	2	A	A	+ve	
3	*2			*8	3	F		*1	F	3	F	F	*1	
4	*3			*9	4	A			A	4	A	A		
5	*4			*10	5	A		*1	A	5	A	A	*1	
6	*4			*10	6	B			B	6	B	B		
7	*4			*5	7	A		*1	A	7	A	A	*1	
8	*4			*5	8	B		-ve	B	8	B	B	-ve	
R1					R1	C			C	R1	C			R2
R3					R3					R3				R4

Unit		6F 2B Single Wound		Unit	
*1	50 V Supply	*1	Terminals	*1	Resistor

Unit		4F 4B 2HF Single Wound		4F 4B 2HF Single Wound	
*1	50 V Supply	*1	Heavy duty front	*1	Heavy duty front

Unit	
*2	TPR i/p
*3	Alarm o/p
*4	Pushbutton i/p
*5	Alarm reset
*6	BX24 i/p
*7	FBX24 i/p
*8	Panel Indication
*9	Buzzer
*10	Track Counter reset

Table A.1 Arrangements of contact, coil and other connections

Arr. 76					Arr. 77					Arr. 78				
	A	B	C	D		A	B	C	D		A	B	C	D
1			*1		1	*1			*2	1				F
2			+ve		2	*1			*3	2				A
3			*1		3				*4	3				F
4					4					4				A
5	A		*1	A	5					5				B
6	B			B	6					6				A
7	A		*1	A	7					7				B
8	B		-ve	B	8					8				A
R1	C			C	R1	*5			*6	R1	C			C
R3					R3					R3	C			C
	4B 2HF					Unit					2F 2B			
	Single Wound										Two coils in series			
*1	Heavy duty front				*1	Internal strap A1 to A2 & 680 μ F Capacitor				*2	1 500 μ F Capacitor			
					*3	390 Ω Resistor				*3	390 Ω Resistor			
					*4	180 Ω Resistor				*4	180 Ω Resistor			
					*5	Resistors common (+ve)				*5	Resistors common (+ve)			
					*6	Capacitors common (-ve)				*6	Capacitors common (-ve)			
Arr. 79					Arr. 80					Arr. 81				
	A	B	C	D		A	B	C	D		A	B	C	D
1		*1	*1		1	*2				1	*1			
2		*1	*1		2					2	*2			
3		*1	*1		3					3	*3			
4		*1	*1		4					4				
5					5					5				
6		*2	*2		6					6				
7					7					7				
8		*3	*4		8					8				
R1					R1	*1			*3	R1				
R3					R3					R3				
	Unit					Unit					Unit			
*1	Flashing outputs				*1	Resistor (+ve)				*1	Diode and Resistor in series			
*2	Flash enable contact				*2	Common				*2	Common			
*3	BX110				*3	Capacitor (-ve)				*3	Capacitor			
*4	NX110													

Table A.1 Arrangements of contact, coil and other connections

Arr. 82

	A	B	C	D	
1	F	F	F	F	
2	A	A	A	A	
3	F			F	
4	A			A	
5	A			A	
6	B			B	
7					
8					
R1	C			C	R2
R3					R4

6F 2B
Single Wound

Arr. 83

	A	B	C	D	
1	B	B	B	B	
2	F	F	F	F	
3	A	A	A	A	
4	B	B	B	B	
5	F	F	F	F	
6	A	A	A	A	
7	C _A	C _B	C _C	C _D	
8	C _A	C _B	C _C	C _D	
R1				*1	R2
R3				*2	R4

2c/o / 2c/o / 2c/o / 2c/o
Unit

- *1 B12 Supply
- *2 N12 Supply

Arr. 84

	A	B	C	D	
1	i/p+				
2	i/p-				
3					
4					
5					
6					
7	o/p+				
8	o/p-				
R1					R2
R3					R4

Unit

Arr. 85

	A	B	C	D	
1	F			F	
2	A			A	
3	F			F	
4	A			A	
5					
6					
7	A			A	
8	B			B	
R1	C			C	R2
R3					R4

4F 2B
Single Wound

Arr. 86

	A	B	C	D	
1	*1	F	*4	*3	
2		A			
3	*2	A	A	A	
4		B	B	B	
5	*3			*5	
6					
7					
8					
R1					R2
R3					R4

2B / 1F 1B
Unit

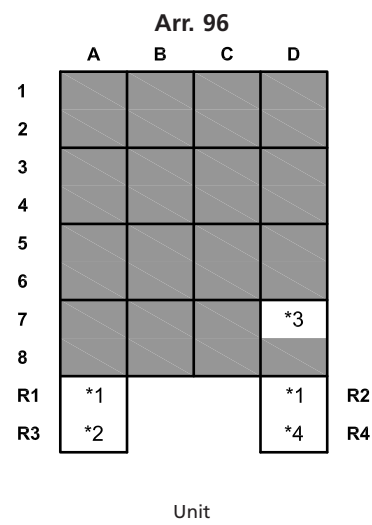
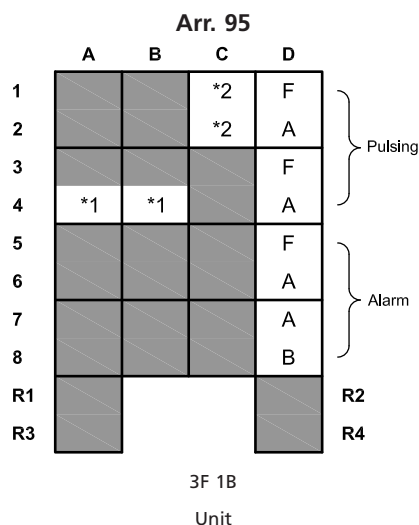
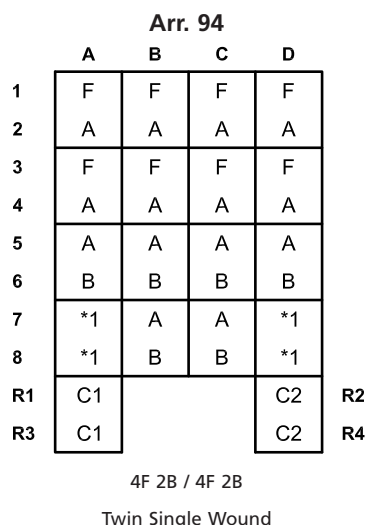
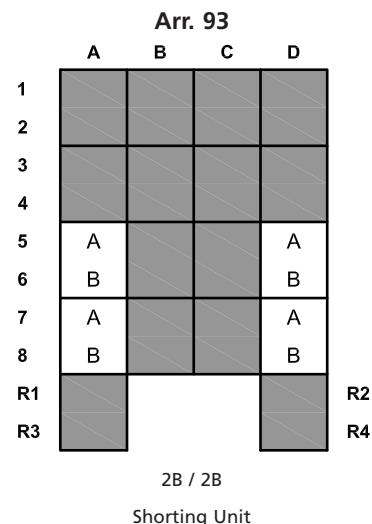
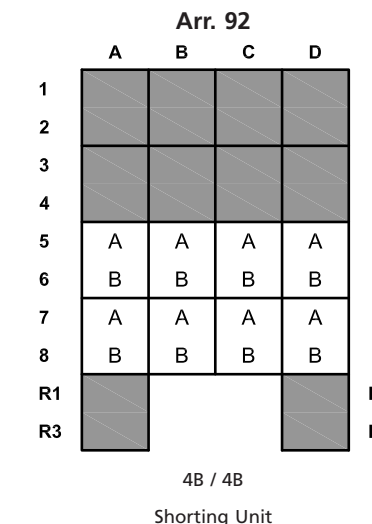
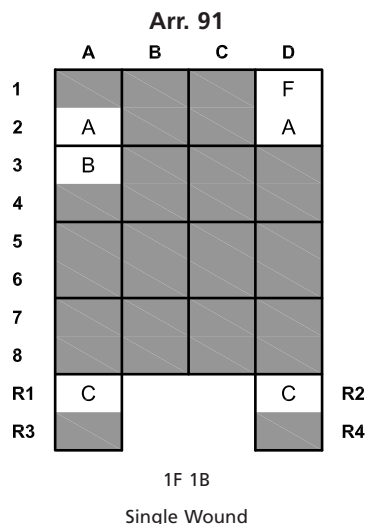
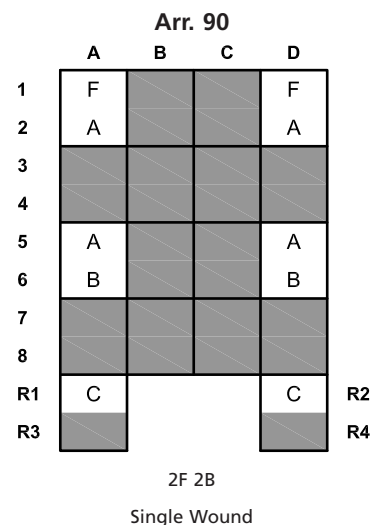
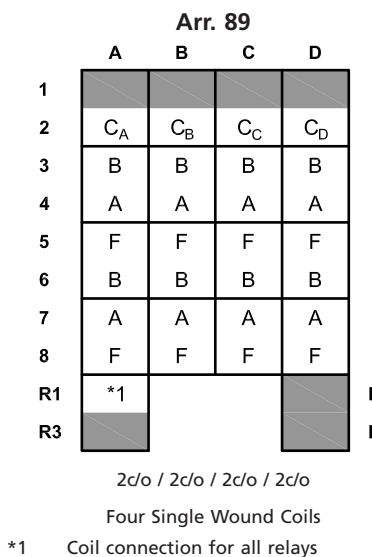
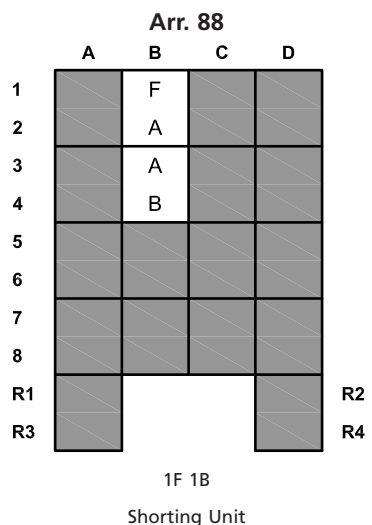
- *1 B50 (Control)
- *2 N50
- *3 External Strap A5 to D1
- *4 BX110
- *5 NX110

Arr. 87

	A	B	C	D	
1					
2					
3		A	A	A	
4		B	B	B	
5					
6					
7					
8					
R1					R2
R3					R4

3B
Shorting Unit

Table A.1 Arrangements of contact, coil and other connections

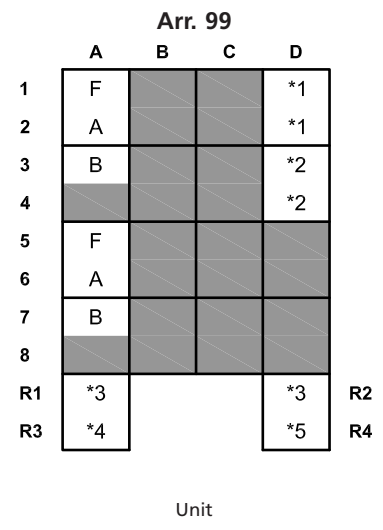
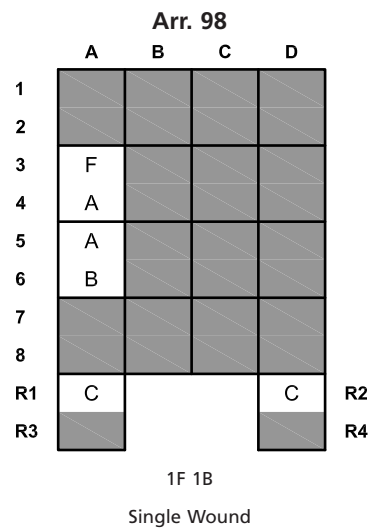
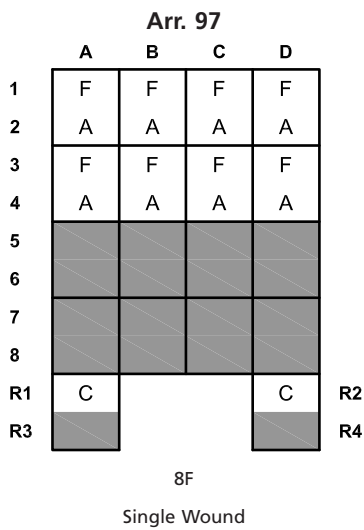


*1 Cut off contact

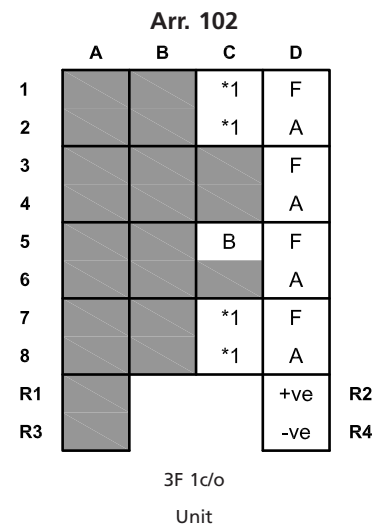
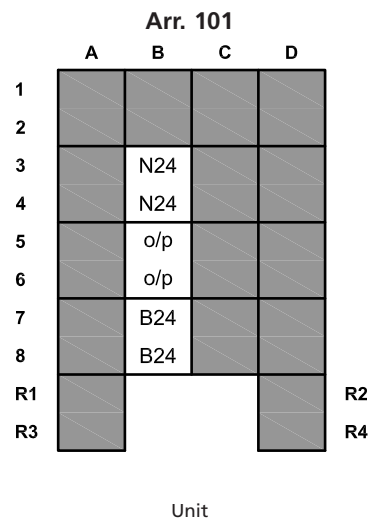
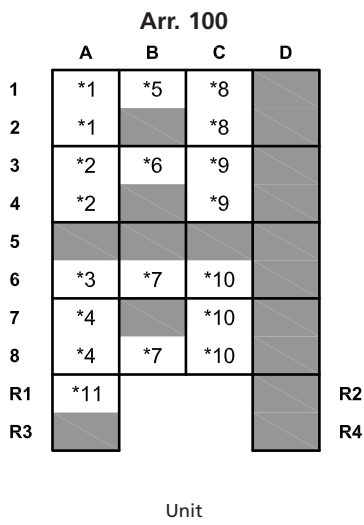
*1 50 V supply to alarm cct
*2 110 V supply to motor

*1 Battery input
*2 Output +25 V
*3 Output 0 V
*4 Output -25 V

Table A.1 Arrangements of contact, coil and other connections



- *1 Remote reset
- *2 Remote test
- *3 110 V supply
- *4 Earth (main)
- *5 Earth (test)



- *1 For 24 V operation link
C1 to C2 & C7 to C8
(Dual-voltage units only)

- *1 B130 [A1 High sensitivity;
A2 Reduced sensitivity]
- *2 B50 [A3 High sensitivity;
A4 Reduced sensitivity]
- *3 Remote indication supply
- *4 Remote indication
- *5 Main earth 130 V
- *6 Main earth 50 V
- *7 12 V or 24 V indication supply
- *8 N130 [C1 High sensitivity;
C2 Reduced sensitivity]
- *9 N50 [C3 High sensitivity;
C4 Reduced sensitivity]
- *10 Remote test
- *11 Test earth

Table A.1 Arrangements of contact, coil and other connections

Arr. 103					Arr. 104					Arr. 105				
	A	B	C	D		A	B	C	D		A	B	C	D
1				A	1					1				i/p
2				B	2					2				i/p
3				F	3					3				
4				B	4					4				
5				F	5					5				B
6				A	6				o/p	6		A		F
7				A	7				o/p	7		A		B
8			B	F	8					8				F
R1				C	R1				B50	R1				C
R3				C	R3				N50	R3				C
3c/o Unit					Unit					2c/o Unit				
Arr. 106					Arr. 107					Arr. 108				
	A	B	C	D		A	B	C	D		A	B	C	D
1				i/p	1					1	F			
2				o/p	2					2	A			
3				*1	3					3	F			
4				*1	4		F			4	A			
5				*1	5		A			5	A			
6				i/p	6		B			6	B			
7					7		*1			7	A			
8					8		*1			8	B			
R1					R1					R1	C			
R3					R3					R3	C			
Unit					1c/o Unit					2F 2B Single Wound				

*1 External straps
D5-D3 for 12 V
D5-D4 for 24 V

*1 Heater

Table A.1 Arrangements of contact, coil and other connections

Arr. 109					Arr. 110					Arr. 111				
	A	B	C	D		A	B	C	D		A	B	C	D
1	F			F	1	A			F	1	*1			*3
2	A			A	2					2	*2			*3
3					3	A			B	3				
4					4					4				
5	A			A	5	A			B	5				
6	B			B	6					6				
7					7	A			B	7				
8					8					8				
R1	C1			C1	R1	C				R1				
R3	C2			C2	R3	C				R3				
2F 2B Two Coils					1F 3B Timer					Unit				
										*1 B15 Supply *2 N15 Supply *3 Output				
Arr. 112					Arr. 113					Arr. 114				
	A	B	C	D		A	B	C	D		A	B	C	D
1	*1			*1	1	*1			*1	1	*1			*1
2				*3	2	*2			*2	2	*2			*1
3	*2				3	*3			*4	3	*3			*4
4	*4			*4	4	*5			*5	4	*5			*5
5					5					5				
6					6					6				
7					7					7				
8					8					8				
R1					R1					R1				
R3					R3					R3				
Unit					Unit					Unit				
										*1 Line output *2 Control contact delayed output *3 N12 *4 B12 *5 Control contact instant output				
										*1 Line output full output A1-D1 reduced output A1-D2 *2 Control contact delayed output *3 N12 *4 B12 *5 Control contact instant output				

Table A.1 Arrangements of contact, coil and other connections

Arr. 115					Arr. 116					Arr. 117				
	A	B	C	D		A	B	C	D		A	B	C	D
1	*1			*1	1	*1			*1	1	A			
2	*2			*3	2	*2			*3	2	B			
3	*4			*4	3	*4			*4	3	A			
4	*4			*4	4	*4			*4	4	F			
5					5					5				
6					6					6				
7					7					7	*1			
8					8					8	*2			
R1					R1					R1	C			R2
R3					R3					R3	C			R4

Unit	Unit	Unit
*1 Reed follower relay	*1 Reed follower relay	*1 FBX24 fuse failure
*2 N12	*2 N12	*2 NX24
*3 B12	*3 B12	
*4 Line input: Strap D3-A3 if immunisation not required	*4 Line input: Strap D2-A3 if immunisation not required	

Arr. 118					Arr. 119					Arr. 120				
	A	B	C	D		A	B	C	D		A	B	C	D
1	*1		*1	*1	1	F	F	F	F	1				
2					2	A	A	A	A	2				
3	*1		*1	*1	3	F	F	F	F	3				
4					4	A	A	A	A	4				
5	*1		*1	*1	5	F	A	A	F	5		A	A	
6					6	A	B	B	A	6		B	B	
7	*1		*1	*1	7	A	A	A	A	7	A	A	A	A
8	*2		*2	*2	8	B	B	B	B	8	B	B	B	B
R1					R1	C1			C2	R1				R2
R3					R3	C1			C2	R3				R4

Unit	5F 3B / 5F 3B Twin Single Wound	3B / 3B Shorting Unit
*1 CR Network 470 μ F/6.8 Ω		
*2 CR Network 2 200 μ F/6.8 Ω		

Table A.1 Arrangements of contact, coil and other connections

Arr. 121					Arr. 122					Arr. 123				
	A	B	C	D		A	B	C	D		A	B	C	D
1	C				1		*1			1	50			*1
2	C				2		*2			2	55			*2
3	F				3		*3			3	60			
4	A				4		*2			4				
5	F				5		*2			5				
6	A				6		*2			6				
7	*1				7		*4			7				
8	*2				8		*3			8	*5			
R1					R1					R1	B			*3
R3					R3					R3	N			*4

2F Unit	Unit	Unit
------------	------	------

*1 BX110	*1 N12	*1 NX input
*2 To CT lamp (NX110)	*2 Track connections	*2 BX11 input
	*3 Track relay	*3 BX110 input
	*4 B12	*4 BX115.5 input
		*5 External strap to A1, A2 or A3 to select output volts

Arr. 124					Arr. 125					Arr. 126				
	A	B	C	D		A	B	C	D		A	B	C	D
1	F	F	F		1	F	F	F		1		F		
2	A	A	A		2	A	A	A		2		A		
3	F	F	F		3	F	F	F		3		F		
4	A	A	A		4	A	A	A		4		A		
5	A	A	A		5	A	F	A		5		C		
6	B	B	B		6	B	A	B		6		C		
7	A	A			7	A	F			7				
8	B	B	*3		8	B	A	*3		8				
R1	C			*1	R1	C			*1	R1				
R3	C			*2	R3	C			*2	R3				

4F 4B / 2F 1B Timer	6F 2B / 2F 1B Timer	2F Single Wound
------------------------	------------------------	--------------------

*1 External strap C1	*1 External strap C1	
*2 Coil & thermal element	*2 Coil & thermal element	
*3 Thermal arm & external strap to C6	*3 Thermal arm & external strap to C6	

Table A.1 Arrangements of contact, coil and other connections

Arr. 133					Arr. 134					Arr. 135					
	A	B	C	D		A	B	C	D		A	B	C	D	
1	*1				1	*1	F	F	*3	1				*1	
2	*1				2	F	A	A	*4	2				*2	
3	*2	*3			3	A	B	B	A	3					
4	*4	*6	*8		4	*2	B	B	*2	4					
5					5					5					
6	*4	*6	*8		6					6					
7	*5	*7	*9		7					7					
8	*5	*7	*9		8					8					
R1					R1					R1	B			*3	
R3					R3					R3	N			*4	
	Unit					Unit					Unit				
*1	Transmitter input				*1	N12				*1	NX input				
*2	N12				*2	Line input				*2	BX11 input				
*3	B12				*3	B12				*3	BX110 input				
*4	Switch 1				*4	False feed connection				*4	BX115.5 input				
*5	Output 1														
*6	Switch 2														
*7	Output 2														
*8	Switch 3														
*9	Output 3														
Arr. 136					Arr. 137					Arr. 138					
	A	B	C	D		A	B	C	D		A	B	C	D	
1	50			*1	1		*1			1	F	F	F	F	
2	55			*2	2		*1			2	A	A	A	A	
3	60			*3	3		*1			3	F	F	F	F	
4					4		*1			4	A	A	A	A	
5					5					5	F	F	F	F	
6					6					6	A	A	A	A	
7					7		B			7	F	F	F	F	
8	*6				8		N			8	A	A	A	A	
R1	B			*4	R1					R1	C			C	
R3	N			*5	R3					R3					
	Unit					Unit					16F Single Wound				
*1	BX10 input				*1	For relays with 950 – 1 150 Ω resistance 110 V A.C. supply on B1 & B3									
*2	BX21 input														
*3	NX input														
*4	BX120 input														
*5	BX125 input														
*6	External strap to A1, A2 or A3 to select output volts														

Table A.1 Arrangements of contact, coil and other connections

Arr. 139					Arr. 140					Arr. 141				
	A	B	C	D		A	B	C	D		A	B	C	D
1	MF	MF	MF	MF	1					1	C			B50
2	A	A	A	A	2					2	*1			C
3	F	F	F	F	3					3	*2			*1
4	A	A	A	A	4					4				*2
5	A			A	5	A			A	5				
6	B			B	6	B			B	6				
7	A			A	7	*1				7				
8	B			B	8	A			*2	8				
R1	C			C	R1	C1			C1	R1				
R3					R3	C2			C2	R3				
4MF 4F 4B Single Wound					1F 1B / 1F 1B Twin Single Wound					2F Single Wound				
					*1 ER1 front contact					*1 A2 front D3 arm				
					*2 ER1 & ER2 front contacts in series					*2 A3 front D4 arm				
Arr. 142					Arr. 143					Arr. 144				
	A	B	C	D		A	B	C	D		A	B	C	D
1	A			F	1	*1			*1	1	A	F	F	A
2	A			F	2	*2			*2	2	B			B
3	A			F	3					3	F			F
4	C				4					4	A			A
5					5					5	B			B
6	*1				6					6	F			F
7	A			F	7					7	A			A
8	A			F	8					8	B			B
R1					R1					R1	C1			C2
R3				C	R3					R3	C1			C2
2F 1HB / 3F Unit					Unit					3c/o / 3c/o Twin				
*1 Heavy duty back contact					*1 Variable resistor 1									
					*2 Variable resistor 2									

Table A.1 Arrangements of contact, coil and other connections

Arr. 145					Arr. 146					Arr. 147				
	A	B	C	D		A	B	C	D		A	B	C	D
1	*2			*4	1				*1	1				
2	*1			*3	2	*2				2				
3					3					3	B			B
4					4					4	A			A
5					5					5	F			F
6					6					6	B			B
7					7					7	A			A
8					8					8	F			F
R1					R1					R1	C			
R3					R3					R3				C

Unit	Unit	4c/o Single Wound
*1 Capacitor-Resistor (1) +ve	*1 Capacitor-Resistor (+ve)	Contacts grouped:
*2 Capacitor-Resistor (1) -ve	*2 Capacitor-Resistor (-ve)	A7, D8 & D6; A4, D5 & D3; D7, A8 & A6;
*3 Capacitor-Resistor (2) +ve		D4, A5 & A3
*4 Capacitor-Resistor (2) -ve		

Arr. 148					Arr. 149					Arr. 150				
	A	B	C	D		A	B	C	D		A	B	C	D
1	+	-	+	-	1	*1	*5	*9	*11	1				*1
2	+	-	+	-	2	*2	*5	*10	*12	2				
3	+	-	+	-	3	*3		*9	*13	3				*2
4	+	-	+	-	4	*4		*10	*14	4				*3
5	+	-	+	-	5		*6			5				*4
6	+	-	+	-	6					6				*1
7	+	-	+	-	7		*7			7				*3
8	+	-	+	-	8		*8			8				
R1					R1	*15			*16	R1				
R3					R3					R3				

Unit	Unit	Unit
Diodes A1-B1, etc.	*1 N120 BB	*1 Line output
	*2 N120 strap	*2 B12 supply
	*3 N50 BB	*3 Control contact
	*4 N50 strap	*4 N12 supply
	*5 Remote Indication	
	*6 Independent Earth	
	*7 Earth (50 V)	
	*8 Earth (120 V)	
	*9 Vcc	
	*10 Remote Reset	
	*11 B120 BB	
	*12 B120 strap	
	*13 B50 BB	
	*14 B50 strap	
	*15 B30	
	*16 N30	

Table A.1 Arrangements of contact, coil and other connections

Arr. 151					Arr. 152					Arr. 153				
	A	B	C	D		A	B	C	D		A	B	C	D
1	*1			*4	1	*1			*3	1		F		
2	*1			*4	2				*3	2		A		
3	*1			*1	3	*1			*3	3	F	F		
4	*1			*1	4				*3	4	A	A		
5	*2			*1	5	*2			*3	5	A			
6	*2				6				*3	6	B			
7	*3			BX	7	*2				7				
8	*3			NX	8				*3	8				
R1					R1	E				R1	C+			C-
R3				E	R3				E	R3				

Unit	Unit	3F 1B Single Wound
*1 TPWS Baseplate Wiring to Adjacent Unit	*1 Output, Arming Frequency	
*2 Input, Inhibiting	*2 Output, Trigger Frequency	
*3 Input, Actuating	*3 TPWS Baseplate Wiring to Adjacent Unit	
*4 Output, Proving		

Arr. 154					Arr. 155					Arr. 156				
	A	B	C	D		A	B	C	D		A	B	C	D
1	F	F	F	F	1	F	F	F	F	1	*1			
2	A	A	A	A	2	A	A	A	A	2				
3	F			F	3	A	F	F	A	3				
4	A			A	4	B	A	A	B	4				
5					5	A	A	A	A	5	*2			
6					6	B	B	B	B	6	*3			
7					7					7	*4			
8					8					8	*5	*8	*9	
R1	C1			C1	R1	C			C	R1	*6			
R3	C2			C2	R3					R3				*7

3F / 3F Twin Single Wound	6F 6B Single Wound	Unit
		*1 R
		*2 D
		*3 GE
		*4 L
		*5 CR+
		*6 CR-
		*7 Earth
		*8 BX110
		*9 NX110

Table A.1 Arrangements of contact, coil and other connections

Arr. 157					Arr. 158					Arr. 159				
	A	B	C	D		A	B	C	D		A	B	C	D
1	F			F	1	N	N	R	R	1	F	F	F	F
2	A			A	2	A	A	A	A	2	A	A	A	A
3					3	N	N	R	R	3	A			A
4					4	A	A	A	A	4	B			B
5					5					5	A			A
6					6					6	B			B
7	A			A	7					7				
8	B			B	8					8				
R1	C1			C2	R1	CN			CR	R1	C			C
R3	C1			C2	R3	CN			CR	R3				
1F 1B / 1F 1B Twin Single Wound					4N 4R Twin Single Wound					4F 4B Single Wound				
Arr. 160					Arr. 161					Arr. 162				
	A	B	C	D		A	B	C	D		A	B	C	D
1			*1		1	F		*1	F	1	F		*1	
2			+ve		2	A		+ve	A	2	A		+ve	
3	A		*1	A	3			*1		3	F		*1	
4	B			B	4					4	A			
5	A		*1	A	5	A		*1	A	5	A		*1	
6	B			B	6	B			B	6	B			
7	A		*1	A	7	A		*1	A	7	A		*1	
8	B		-ve	B	8	B		-ve	B	8	B		-ve	
R1	C			C	R1	C			C	R1	C			C
R3					R3					R3				
6B 2HF Single Wound					2F 4B 2HF Single Wound					2F 2B 2HF Single Wound				
*1 Heavy duty front					*1 Heavy duty front					*1 Heavy duty front				

Table A.1 Arrangements of contact, coil and other connections

Arr. 163					Arr. 164					Arr. 165				
	A	B	C	D		A	B	C	D		A	B	C	D
1	F			F	1	F			F	1	*1			
2	A			A	2	A			A	2	*1			
3	A			A	3					3	A			
4	B			B	4					4	B			
5					5	A				5	*2			
6					6	B				6	*2			
7					7					7	*3			*3
8					8					8				*4
R1	C			C	R1	C			C	R1				
R3					R3					R3				*5
2F 2B Single Wound					2F 1B Single Wound					Unit				

- *1 50 V D.C. supply
- *2 External indication
- *3 12 V A.C. supply
- *4 Earth (main)
- *5 Earth (test)

Arr. 166					Arr. 167					Arr. 168				
	A	B	C	D		A	B	C	D		A	B	C	D
1	F	*1	*1		1	F	*2	*1		1	MF	F	F	MF
2	A	*2		*3	2	A	C		*3	2	A	A	A	A
3	F		*5	*4	3	F				3	F	F	F	F
4	A		C		4	A				4	A	A	A	A
5	A		C		5	A		*1		5	A	F	F	A
6	B		*6		6	B		*4		6	B	A	A	B
7	A				7	A				7	A		F	A
8	B				8	B				8	B		A	B
R1					R1	*5				R1	PU			PU
R3					R3	C				R3	REL			REL
2F 2B + Thermal					2F 2B + Thermal					2MF 9F 4B Double Wound				

- *1 Thermal Element
- *2 Cold Contact & strap to A2
- *3 Thermal Common
- *4 Hot Contact
- *5 B12 Supply
- *6 External strap to A5 & A4

- *1 Thermal Element
- *2 Cold Contact & strap to A2
- *3 Thermal Common
- *4 Hot Contact & strap to A4
- *5 B12 Supply

Table A.1 Arrangements of contact, coil and other connections

Arr. 169					Arr. 170					Arr. 171				
	A	B	C	D		A	B	C	D		A	B	C	D
1	Fp	F	F	F	1	F	F	F	MF	1	F	F		MF
2	A	A	A	A	2	A	A	A	A	2	A	A		A
3	Fp		F	F	3	F	F	F	F	3	F	F		F
4	A		A	A	4	A	A	A	A	4	A	A		A
5	Fp	A	A	A	5	A	A	A	A	5	A	F		A
6	A	B	B	B	6	B	B	B	B	6	B	A		B
7	Fp	A	A	A	7	A	A	A	A	7	A	F		A
8	A	B	B	B	8	B	B	B	B	8	B	A		MB
R1	PU			PU	R1	C			C	R1	C			C
R3	REL			REL	R3					R3				
4Fp 5F 6B Double Wound					1MF 7F 8B Single Wound					1MF 1MB 7F 3B Single Wound				
Arr. 172					Arr. 173					Arr. 174				
	A	B	C	D		A	B	C	D		A	B	C	D
1	F	F		F	1	F	F		F	1	F	F	F	F
2	A	A		A	2	A	A		A	2	A	A	A	A
3	F	F		F	3	F	F		F	3	F	F		F
4	A	A		A	4	A	A		A	4	A	A		A
5	A			A	5	A	F		F	5	A	F		A
6	B			B	6	B	A		A	6	B	A		B
7	A			A	7	A	F		A	7	A	F	F	A
8	B			B	8	B	A		B	8	B	A	A	B
R1	C			C	R1	C			C	R1	C			C
R3					R3					R3				
6F 4B Single Wound					9F 3B Single Wound					10F 4B Single Wound				
Arr. 175					Arr. 176					Arr. 177				
	A	B	C	D		A	B	C	D		A	B	C	D
1	F	F	F	F	1	F			F	1				
2	A	A	A	A	2	A			A	2		S1	S2	
3	F	F	F	F	3					3		S1	S2	
4	A	A	A	A	4					4				
5	A	A	F	A	5					5				
6	B	B	A	B	6					6				
7	A	A	F	A	7	C			C	7	S3			
8	B	B	A	B	8					8	S3			
R1	C			C	R1					R1				
R3					R3					R3				
10F 6B Single Wound					2F Single Wound					Shorting Unit				

Table A.1 Arrangements of contact, coil and other connections

Arr. 178					Arr. 179					Arr. 180				
	A	B	C	D		A	B	C	D		A	B	C	D
1	F	MF	MF	F	1			*1		1	F	F		*1
2	A	A	A	A	2			+ve		2	A	A		+ve
3	F	MF	MF	F	3	A		*1		3	F	F		
4	A	A	A	A	4	B				4	A	A		
5	A			A	5	A		*1	A	5	A	A		
6	B			B	6	B			B	6	B	B		
7	A			A	7	A		*1	A	7	A	A		*1
8	B			B	8	B		-ve	B	8	B	B		-ve
R1	C			C	R1	C			C	R1	C			C
R3					R3					R3				
	4MF 4F 4B					5B 2HF					4F 4B 1HF			
	Single Wound					Single Wound					Single Wound			
					*1	Heavy duty front				*1	Heavy duty front			
Arr. 181					Arr. 182					Arr. 183				
	A	B	C	D		A	B	C	D		A	B	C	D
1	F	F		*1	1	*1		*1	F	1	F	F	F	F
2	A	A		+ve	2	+ve		+ve	A	2	A	A	A	A
3	F	F		*1	3	*1		*1	F	3	F	F	F	F
4	A	A			4				A	4	A	A	A	A
5	A	A		*1	5	*1		*1	A	5	F	F	F	F
6	B	B			6				B	6	A	A	A	A
7	A	A		*1	7	*1		*1	A	7	A	F	F	A
8	B	B		-ve	8	-ve		-ve	B	8	B	A	A	B
R1	C			C	R1	C				R1	C			C
R3					R3	C				R3				
	4F 4B 2HF					2F 2B 4HF					14F 2B			
	Single Wound					Single Wound					Single Wound			
*1	Heavy duty front				*1	Heavy duty front								
Arr. 184					Arr. 185					Arr. 186				
	A	B	C	D		A	B	C	D		A	B	C	D
1	F	F	F	F	1		F	F		1	F	F	F	F
2	A	A	A	A	2		A	A		2	A	A	A	A
3	F	F	F	F	3		F	F		3	F	F	F	F
4	A	A	A	A	4		A	A		4	A	A	A	A
5	A			A	5	A	F	F	A	5	A	A	A	A
6	B			B	6	B	A	A	B	6	B	B	B	B
7	A			A	7	A	F	F	A	7				
8	B			B	8	B	A	A	B	8				
R1	C1			C2	R1	C1			C2	R1	C1			C2
R3	C1			C2	R3	C1			C2	R3	C1			C2
	4F 2B / 4F 2B					4F 2B / 4F 2B					4F 2B / 4F 2B			
	Twin Single Wound					Twin Single Wound					Twin Single Wound			

Table A.1 Arrangements of contact, coil and other connections

Arr. 187					Arr. 188					Arr. 189				
	A	B	C	D		A	B	C	D		A	B	C	D
1	F	F	F	F	1	F			F	1	A	A	B	A
2	A	A	A	A	2	A			A	2	B	A	F	F
3	A	F	F	A	3					3	F			A
4	B	A	A	B	4					4	A			B
5	A	A	A	A	5					5	B			F
6	B	B	B	B	6					6	F			A
7	A	A	A	A	7	A			A	7	A			F
8	B	B	B	B	8	B			B	8	A			A
R1	C1			C2	R1	C			C	R1	C _B			C _A
R3	C1			C2	R3					R3	C _B			C _A
3F 5B / 3F 5B Twin Single Wound					2F 2B Single Wound					3F 2B / 3F 2B Twin Single Wound				
										Relay A Contacts grouped: D2 & D3; C2 & D1; A3 & B1; B2 & C1; A1 & A2 Relay B Contacts grouped: D7 & D8; D5 & D6; A6 & A7; A8 & D4; A4 & A5				
Arr. 190					Arr. 191					Arr. 192				
	A	B	C	D		A	B	C	D		A	B	C	D
1					1					1	*1			*2
2					2					2				*3
3	F			F	3					3				*4
4	A			A	4					4				*5
5	B			B	5					5				
6	F			F	6					6				
7	A			A	7					7				
8	B			B	8					8				
R1	C _B			C _A	R1	*1			*2	R1	*1			
R3	C _B			C _A	R3	*3			*4	R3				
2c/o / 2c/o Twin Single Wound					Unit					Unit				
Relay A Contacts grouped: D3, D4 & D5; D6, D7 & D8 Relay B Contacts grouped: A3, A4 & A5; A6, A7 & A8					*1 Adjustable Capacitor-Resistor (-ve) *2 Adjustable Capacitor-Resistor (+ve) & strap to R4 *3 33 µF Capacitor 270 Ω Resistor (-ve) *4 33 µF Capacitor 270 Ω Resistor (+ve)					*1 47 Ω Resistor *2 2 200 µF Capacitor (+ve) *3 2 200 µF Capacitor (-ve) *4 1 000 µF Capacitor (+ve) *5 1 000 µF Capacitor (-ve)				

Table A.1 Arrangements of contact, coil and other connections

Arr. 193					Arr. 194					Arr. 195				
	A	B	C	D		A	B	C	D		A	B	C	D
1	A			A	1	F	A	F	A	1	*1	*3	A	C1
2	F			F	2	A	*2	A	*1	2	*1	*3	F	C1
3	*4			A	3	B	F	B	F	3	*3	B	F	A
4	*4			F	4	B	A	B	A	4	*3	*3	B	F
5	A			A	5	A	F	A	F	5	*2	*3	A	F
6	B			B	6	F	A	F	A	6	*3	*3	A	C2
7	A			A	7	A	B	A	B	7	*3	*2	C2	F
8	B			B	8	B	A	B	A	8	B	A	A	F
R1	*1				R1	C _A			C _B	R1	C3			*4
R3	*2			*3	R3	C _C			C _D	R3	C3			*4

Arr. 196					Arr. 197					Arr. 198				
	A	B	C	D		A	B	C	D		A	B	C	D
1	C1	*1	*1	C1	1		A	A	A	1	F			
2	C2	*1	*1	C2	2	*1	F	F	F	2	A			
3	C3	*1	*1	C3	3	*1	B	B	B	3	F			
4	C4	*1	*1	C4	4	*1	A	A	A	4	A			
5	C5	*1	*1	C5	5		F	F	F	5	A			
6	*1	*1	*1	*1	6		B	B	B	6	B			
7	*1	*1	*1	*1	7		A	A	A	7				
8	*1	*1	*1	*1	8		F	F	F	8				
R1	*1			*1	R1	*2			C1	R1	C			
R3	*1			*1	R3	C2			C3	R3				

2F 5B / 2F 2B

Twin Double / Single Wound

- *1 JCR coil (2)
 - *2 JCR coil (common)
 - *3 JCR coil (1) & EDCPR coil
 - *4 Relay down proving
- JCR Contacts grouped:
A5 & A6; A7 & A8; D5 & D6; D7 & D8; D3 & D4
- EDCPR Contacts grouped:
A1 & A2; D1 & D2

2F 1B 1c/o / 2F 1B 1c/o / 1F 1B 1c/o / 1F 1B 1c/o

Four Coils Single Wound

- *1 Coils Common
 - *2 Common Front for A & B
- Relay A Contacts grouped:
A1, A2 & A3; A4 & A5; B1 & B2; B3 & B4
- Relay B Contacts grouped:
C1, C2 & C3; C4 & C5; D1 & B2; D3 & D4
- Relay C Contacts grouped:
A6, A7 & A8; B5 & B6; B7 & B8
- Relay D Contacts grouped:
C6, C7 & C8; D5 & D6; D7 & D8

1F 1c/o / 1F 1c/o / 1F 1c/o

3 Double / 2 Single Wound

- *1 (LP)PR coil
 - *2 (OR)PR coil
 - *3 Switching circuits inputs
 - *4 Coils 1-3 Common returns
- Relay 1 Contacts grouped:
C1, C3 & B3; D3 & C2
- Relay 2 Contacts grouped:
C6, D4 & C4; C5 & D5
- Relay 3 Contacts grouped:
C8, D8 & A8; B8 & D7

Five Coils Single Wound

- *1 Panel indications

1F 2c/o / 1F 2c/o / 1F 2c/o

Three Coils Single Wound

- *1 Diodes for Slow Release
 - *2 Coils Common (+ve)
- Relay 1 Contacts grouped:
B1, B2 & B3; B4, B5 & B6; B7 & B8
- Relay 2 Contacts grouped:
C1, C2 & C3; C4, C5 & C6; C7 & C8
- Relay 3 Contacts grouped:
D1, D2 & D3; D4, D5 & D6; D7 & D8

2F 1B

Single Wound

Table A.1 Arrangements of contact, coil and other connections

Arr. 199

	A	B	C	D	
1	F	F	F	F	
2	A	A	A	A	
3	F	A	A	F	
4	A	B	B	A	
5	A	A	A	A	
6	B	B	B	B	
7					
8					
R1	C			C	R2
R3					R4

6F 6B
Single Wound

Arr. 200

	A	B	C	D	
1	*1	*1	*1	*1	
2	*1	*1	*1	*1	
3	*1	*1	*1	*1	
4	*1	*1	*1	*1	
5	*1	*1	*1	*1	
6	*1	*1	*1	*1	
7	*1	*1	*1	*1	
8	*1	*1	*1	*1	
R1	*1			*1	R2
R3	*1			*1	R4

Shorting Unit

*1 All contacts shorted to form a busbar *1

Arr. 201

	A	B	C	D	
1	0.45			NX	
2	0.36			1.1	
3	0.23			0.9	
4	0.16			0.73	
5				0.54	
6					
7					
8					
R1	B			*1	R2
R3	N				R4

Unit

*1 Earth Screen
Figures show BX input (amps) for current proving

Arr. 202

	A	B	C	D	
1					
2					
3					
4					
5					
6					
7					
8	*1				
R1	B			BX	R2
R3	N			NX	R4

Unit

*1 Earth screen

Arr. 203

	A	B	C	D	
1					
2					
3					
4					
5					
6					
7					
8					
R1	B			BX	R2
R3	N			NX	R4

Unit

Arr. 204

	A	B	C	D	
1	1.5			*1	
2	4			*2	
3					
4					
5					
6					
7					
8	*5				
R1	B			*3	R2
R3	N			*4	R4

Unit

*1 NX input
*2 BX11 input
*3 BX110 input
*4 BX115.5 input
*5 External strap to A1 or A2 to select output loading (W)

Table A.1 Arrangements of contact, coil and other connections

Arr. 205					Arr. 206					Arr. 207				
	A	B	C	D		A	B	C	D		A	B	C	D
1	*1			*2	1			*1		1	F			F
2				*3	2			+ve		2	A			A
3					3			*1		3	F			F
4					4					4	A			A
5					5			*1		5	A			A
6					6					6	B			B
7					7			*1		7	DC			DC
8					8			-ve		8				
R1	B			*4	R1	C1			C1	R1	AC			AC
R3	N			*5	R3	C2			C2	R3				

Unit					2HF					4F 2B				
	A	B	C	D		A	B	C	D		A	B	C	D
*1	Earth screen				*1	Heavy duty front								
*2	NX input													
*3	BX11 input													
*4	BX110 input													
*5	BX115.5 input													

Arr. 208					Arr. 209					Arr. 210				
	A	B	C	D		A	B	C	D		A	B	C	D
1	*1	301	F	F	1	*1	301	F	F	1	*1			*3
2	278	254	A	A	2	278	254	A	A	2	*2			*4
3	231	207	F	F	3	231	207	F	F	3	*5			*5
4	184	160	A	A	4	184	160	A	A	4				
5	136	113	*3	A	5	136	113	*3	A	5				
6	89	66	*3	B	6	89	66	*3	B	6				
7	42	18.5	F	A	7	42	18.5	A	A	7				
8	*2	*2	A	B	8	*2	*2	B	B	8				
R1	C			C	R1	C			C	R1				
R3					R3					R3				

5F 2B					4F 3B					Twin Unit				
	A	B	C	D		A	B	C	D		A	B	C	D
*1	External strap for course time (to figures in seconds)				*1	External strap for course time (to figures in seconds)				*1	Control (RH) B			
*2	Strap between A8, B7 or B8 for fine time setting				*2	Strap between A8, B7 or B8 for fine time setting				*2	Timed output (RH) N			
*3	Stick contact				*3	Stick contact				*3	Control (LH) B			
										*4	Timed output (LH) N			
										*5	N Supply			

Table A.1 Arrangements of contact, coil and other connections

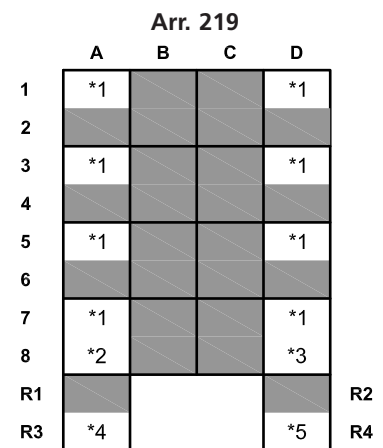
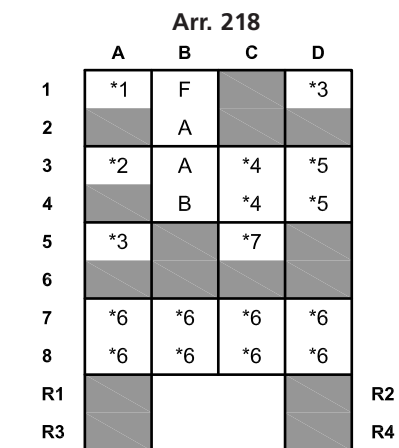
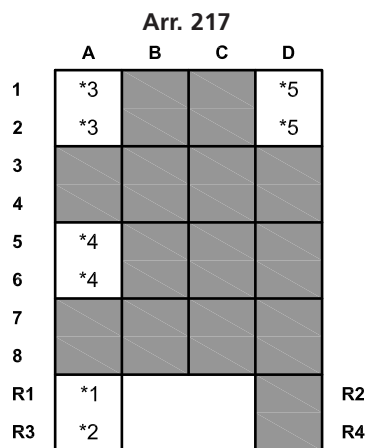
Arr. 211					Arr. 212					Arr. 213				
	A	B	C	D		A	B	C	D		A	B	C	D
1	*7			12	1				*1	1				*1
2	*7			*6	2				*1	2				*1
3	*7			*4	3				*1	3				*1
4				*4	4				*1	4				*1
5				*5	5				*2	5				*2
6				*5	6				*2	6				*2
7	*7			24	7				*3	7				*3
8				50	8				*3	8				*3
R1	*1			*2	R2				*3	R2				*3
R3	*3			*3	R4				*3	R4				*3

Unit	Unit	Unit
*1 B12 Supply	*1 B Supply	*1 N Supply
*2 N12 Supply	*2 N Supply	*2 B Supply
*3 External relay load	*3 Load (+ve)	*3 Load (-ve)
*4 External control contact		
*5 Down proving external relay		
*6 Load voltage strap (to D1, D7 or D8)		
*7 Timing range strap(s)		

Arr. 214					Arr. 215					Arr. 216				
	A	B	C	D		A	B	C	D		A	B	C	D
1	*3	*3	*3		1					1	F			
2	*4	*4	*4		2					2	A			
3					3					3	B			
4					4					4	F			
5					5					5	A			
6					6				*3	6	B			
7	*1	*1	*1		7					7	*1			
8	*2	*2	*2		8				*3	8	*2			
R1					R1				*1	R1	*3			
R3					R3				*2	R4	*4			

Unit	Unit	2c/o Unit
*1 BX Supply	*1 B Supply	*1 Shunt (+)
*2 NX Supply	*2 N Supply	*2 N Supply & Shunt (-)
*3 Load (BX)	*3 Load	*3 B Supply 12 V
*4 Load (NX)		*4 B Supply 24 V/ 4 V

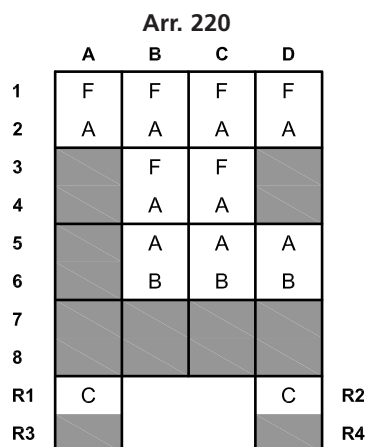
Table A.1 Arrangements of contact, coil and other connections



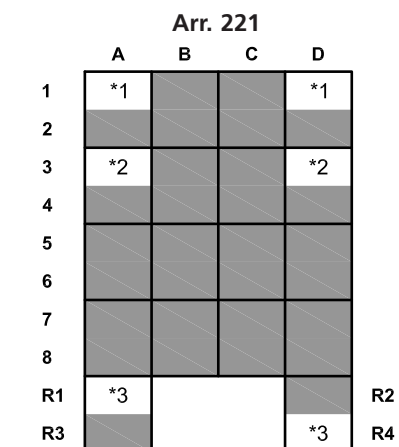
- Unit
- *1 B24 Supply
 - *2 N24 Supply
 - *3 Input
 - *4 Output
 - *5 Strap for high gain

- 1F 1B Unit
- *1 B50 (Control)
 - *2 N50
 - *3 External Strap A5 to D1
 - *4 Internal Strap
 - *5 Internal Strap
 - *6 External straps to select time setting
 - *7 Earth

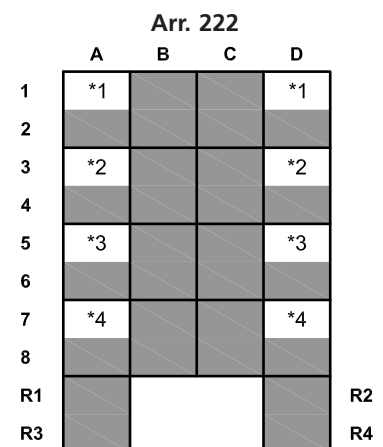
- Unit
- *1 Resistor network
 - *2 2 200 μF Capacitor (+ve)
 - *3 2 200 μF Capacitor (-ve)
 - *4 470 μF Capacitor (+ve)
 - *5 470 μF Capacitor (-ve)



6F 3B
Single Wound



- Unit
- *1 Resistor 1
 - *2 Resistor 2
 - *3 Resistor 3



- Unit
- *1 Resistor 1
 - *2 Resistor 2
 - *3 Resistor 3
 - *4 Resistor 4

Table A.1 Arrangements of contact, coil and other connections

Arr. 223					Arr. 224					Arr. 225				
	A	B	C	D		A	B	C	D		A	B	C	D
1	F	F	F	F	1	F	F	F	F	1	F	F	F	F
2	A	A	A	A	2	A	A	A	A	2	A	A	A	A
3	F	F	F	F	3	F	F	F	F	3		F	F	F
4	A	A	A	A	4	A	A	A	A	4		A	A	A
5	A	F	F	A	5	A	F	F	A	5	A	A	A	A
6	B	A	A	B	6	B	A	A	B	6	B	B	B	B
7					7	A	A	A	A	7	A	A	A	
8					8	B	B	B	B	8	B	B	B	
R1	C			C	R1	C			C	R1	PU			PU
R3					R3					R3	REL			REL
10F 2B Single Wound					10F 6B Single Wound					7F 7B Double Wound				
Arr. 226					Arr. 227					Arr. 228				
	A	B	C	D		A	B	C	D		A	B	C	D
1	*1			*1	1				*1	1				*1
2					2				*1	2				*1
3					3				*2	3				
4	*2			*2	4				*3	4				
5					5				*4	5				
6					6				*4	6				
7		*3		*2	7				*4	7				
8		*3			8				*4	8				
R1	*4				R1					R1	*2			
R3	*4				R3					R3	*2			
Shorting Unit					Unit					Shorting Unit				
*1	Reed follower relay				*1	Control contact or Follower relay				*1	Control contact or follower relay			
*2	Control contact (strap A4 to D7)				*2	N12 supply				*2	to/from WESTPLEX			
*3	from WESTPLEX				*3	B12 supply								
*4	to WESTPLEX				*4	Line output or Line input (strap D5 to D6 and D7 to D8)								

Table A.1 Arrangements of contact, coil and other connections

Arr. 229					Arr. 230					Arr. 231				
	A	B	C	D		A	B	C	D		A	B	C	D
1				*1	1	*3	*3			1		*1	*1	
2				*2	2	*4	*4			2		*1	*1	
3				*3	3	*4	*4		*1	3		*1	*1	
4				*4	4	*4	*4		*2	4		*1	*1	
5					5	*4	*4		*5	5		*1	*1	
6					6	*4	*4		*5	6		*1	*1	
7					7	*4	*4		*5	7		*1	*1	
8					8	*4	*4		*5	8		*1	*1	
R1					R1					R1				R2
R3				*5	R3					R3				R4
Unit					Unit					Unit				
*1	B12 input				*1	N12 supply				*1	Components to be added as required			
*2	N12 input				*2	B12 supply								
*3	N12 output				*3	Line input (1) strap A1 to B1								
*4	B12 output				*4	Line input (2) strap An to Bn (select row n=2 to 8 for gain)								
*5	Earth				*5	Line output (strap D5 to D6 and D7 to D8)								
Arr. 232					Arr. 233					Arr. 234				
	A	B	C	D		A	B	C	D		A	B	C	D
1	*1	*1	*1	*1	1	*1			*1	1	*1			
2	*1	*1	*1	*1	2	*1			*1	2	*1			
3	*1	*1	*1	*1	3	*1			*1	3	*1			
4	*1	*1	*1	*1	4	*1			*1	4	*1			
5	*1	*1	*1	*1	5	*1			*1	5	*1			
6	*1	*1	*1	*1	6	*1			*1	6	*1			
7	*1	*1	*1	*1	7	*1			*1	7	*1			
8	*1	*1	*1	*1	8	*1			*1	8	*1			
R1	*1			*1	R1	*1			*1	R1	*1			R2
R3	*1			*1	R3	*1			*1	R3	*1			R4
Unit					Unit					Unit				
*1	Components to be added as required				*1	Components to be added as required				*1	Components to be added as required			

Table A.1 Arrangements of contact, coil and other connections

Arr. 235					Arr. 236					Arr. 237				
	A	B	C	D		A	B	C	D		A	B	C	D
1	*1			*1	1				*1	1				*1
2	*1			*1	2				*1	2				*1
3	*1			*1	3				*1	3				*1
4	*1			*1	4				*1	4				*1
5	*1			*1	5				*2	5				*2
6	*1			*1	6				*2	6				*2
7					7				*2	7				*2
8					8				*2	8				*2
R1					R1					R1				
R3					R3					R3				*3
	Unit					Unit					Unit			
*1	Components to be added as required				*1	Line input (strap D1 to D2 and D3 to D4)				*1	Line input (strap D1 to D2 and D3 to D4)			
					*2	Line output (strap D5 to D6 and D7 to D8)				*2	Line output (strap D5 to D6 and D7 to D8)			
										*3	Earth screen			
Arr. 238					Arr. 239					Arr. 240				
	A	B	C	D		A	B	C	D		A	B	C	D
1	*5			*6	1					1	*4			*8
2	*5			*7	2					2	*6			*7
3				*4	3				*4	3	*6			*7
4					4					4				*9
5	*2			*1	5	*2			*1	5				*1
6	*8			*8	6					6	*5			*1
7				*1	7				*1	7	*5			*3
8	*4			*8	8					8	*3			*2
R1	*3			*2	R1	*3			*2	R1				*2
R3	*3			*8	R3	*3				R3				*4
	Unit					Unit					Unit			
*1	Input impedance 600 Ω				*1	Input (line impedance 600 Ω)				*1	Input (line impedance 1 150 Ω)			
*2	Input impedance 150 Ω				*2	Input (line impedance 150 Ω)				*2	Input (line impedance 460 Ω)			
*3	Output (equipment side)				*3	Output (equipment side)				*3	Input (unloaded line)			
*4	Earth screen				*4	Earth screen				*4	Input (unloaded line)			
*5	Input (line) with lightning protection									*5	Output (equipment side)			
*6	Strap to D5 or R2 to set impedance									*6	Earth screen			
*7	Strap to A5 or D7 to set impedance									*7	Input (line) with lightning protection			
*8	Internal straps D6 to D5, R4 to R2, A6 to A5 and D8 to D7									*8	Strap to D6, R2, A8 or A1 to set impedance			
										*9	Strap to D5, D8, D7 or R4 to set impedance			

Table A.1 Arrangements of contact, coil and other connections

Arr. 241					Arr. 242					Arr. 243				
	A	B	C	D		A	B	C	D		A	B	C	D
1	*4	*9		*14	1	*3			*5	1		*5	*6	*7
2	*5	*10		*15	2					2		*5	*6	*7
3	*6	*16	*26	*19	3	*3			*5	3		*5	*6	*7
4	*7	*17	*27	*20	4					4		*5	*6	*7
5	*8	*18	*28	*24	5					5		*5	*6	*7
6	*11	*21	*31	*25	6	*1			*1	6		*8	*8	
7	*12	*22	*32	*29	7					7		*8	*8	
8	*13	*23	*33	*30	8	*4			*6	8		*8	*8	
R1	*2			*1	R1					R1	*1			*2
R3	*3				R3	*2			*2	R3	*3			*4
	Unit					Twin Unit					Unit			
*1	B50 supply				*1	B50 supply				*1	B50 supply			
*2	Override relays (N50)				*2	N50 supply				*2	NR relay (N50)			
*3	Emergency Panel relays (N50)				*3	Code input (RH)				*3	CR relay (N50)			
*4	TDM control (1)				*4	External Code Detection Relay (RH) N50				*4	RR relay (N50)			
*5	External TDM coil (1)				*5	Code input (LH)				*5	NR circuits			
*6	Override control (1)				*6	External Code Detection Relay (LH) N50				*6	CR circuits			
*7	Emergency Panel control (1)									*7	RR circuits			
*8	External local coil (1)									*8	Switching circuits			
*9	TDM control (2)													
*10	External TDM coil (2)													
*11	Override control (2)													
*12	Emergency Panel control (2)													
*13	External local coil (2)													
*14	TDM control (3)													
*15	External TDM coil (3)													
*16	Override control (3)													
*17	Emergency Panel control (3)													
*18	External local coil (3)													
*19	TDM control (4)													
*20	External TDM coil (4)													
*21	Override control (4)													
*22	Emergency Panel control (4)													
*23	External local coil (4)													
*24	TDM control (5)													
*25	External TDM coil (5)													
*26	Override control (5)													
*27	Emergency Panel control (5)													
*28	External local coil (5)													
*29	TDM control (6)													
*30	External TDM coil (6)													
*31	Override control (6)													
*32	Emergency Panel control (6)													
*33	External local coil (6)													

Table A.1 Arrangements of contact, coil and other connections

Arr. 244					Arr. 245					Arr. 246					
	A	B	C	D		A	B	C	D		A	B	C	D	
1	*10	*10	*10	*10	1	*4	*4	*4	*4	1	*4	*4	*4	*4	
2	*10	*10	*10	*10	2	*4	*4	*4	*4	2	*4	*4	*4	*4	
3	*10	*10		*10	3	*4	*4	*4	*4	3	*4	*4	*4	*4	
4	*10	*10	*10	*10	4	*4	*4	*4	*4	4	*4	*4	*4	*4	
5	*4	*10	*10	*10	5	*4	*4	*4		5	*4	*4	*4	*4	
6	*5	*10	*10	*10	6	*4	*4	*4	*4	6	*4	*4	*4	*4	
7	*7	*10	*6	*10	7	*4	*4	*4	*4	7	*4	*4	*4	*4	
8	*8	*10	*9	*10	8	*4	*4		*4	8	*3	*4	*4	*4	
R1	*1			*2	R1	*2			*1	R1	*2			*4	
R3	*10			*3	R3	*3				R3	*1			*4	
	Unit					Unit					Unit				
*1	B50 supply				*1	N50 supply				*1	N50 supply				
*2	(F)R relay (N50)				*2	O relays (B50)				*2	TFR relays pick (B50)				
*3	(FM)R relay (N50)				*3	L relays (B50)				*3	TFR relays stick (B50)				
*4	(S)R relay pick (B50)				*4	Switching circuits				*4	Switching circuits				
*5	(S)R relay stick (B50)														
*6	(S)R relay (N50)														
*7	(D)R relay pick (B50)														
*8	(D)R relay stick (B50)														
*9	(D)R relay (N50)														
*10	Switching circuits														

Table A.1 Arrangements of contact, coil and other connections

Arr. 247					Arr. 248					Arr. 249				
	A	B	C	D		A	B	C	D		A	B	C	D
1	*3	*3	*6	*6	1	*1	F	F	*6	1	*1	F	F	*8
2	*3	*3	*6	*6	2	*2	F	F	*7	2	*2	F	F	*9
3	*3	*3	*6	*6	3	*3	F	F	*8	3	*3	B	B	*10
4	*3	*3	*6	*6	4	*4	F	F	*9	4	*4	F	F	*11
5	*1	*3	*6	*4	5	*5	A	A	*10	5	*5	B	B	*12
6	*2	*3	*6	*5	6					6	*6	F	F	*13
7					7					7	*7	A	A	*14
8	A			A	8					8				
R1	B			B	R1					R1				
R3	F			F	R3					R3				
	Twin Unit					Twin Unit					Twin Unit			
*1	Input (RH) B12				*1	N12 supply (RH)				*1	N12 supply (RH)			
*2	Input (RH) N12				*2	Coil 1 (RH) B12				*2	Delatch coil 1 (RH) B12			
*3	Strapping for time setting (RH)				*3	Coil 2 (RH) B12				*3	Latch coil 1 (RH) B12			
*4	Input (LH) B12				*4	Coil 3 (RH) B12				*4	Delatch coil 2 (RH) B12			
*5	Input (LH) N12				*5	Coil 4 (RH) B12				*5	Latch coil 2 (RH) B12			
*6	Strapping for time setting (LH)				*6	N12 supply (LH)				*6	Coil 3 (RH) B12			
					*7	Coil 1 (LH) B12				*7	Coil 4 (RH) B12			
					*8	Coil 2 (LH) B12				*8	N12 supply (LH)			
					*9	Coil 3 (LH) B12				*9	Delatch coil 1 (LH) B12			
					*10	Coil 4 (LH) B12				*10	Latch coil 1 (LH) B12			
						Relay 1 (RH) contact: B1 B5				*11	Delatch coil 2 (LH) B12			
						Relay 2 (RH) contact: B2 B5				*12	Latch coil 2 (LH) B12			
						Relay 3 (RH) contact: B3 B5				*13	Coil 3 (LH) B12			
						Relay 4 (RH) contact: B4 B5				*14	Coil 4 (LH) B12			
						Relay 1 (LH) contact: C1 C5					Relay 1 (RH) contact: B1 B7			
						Relay 2 (LH) contact: C2 C5					Relay 2 (RH) contact: B2 B7			
						Relay 3 (LH) contact: C3 C5					Relay 3 (RH) contacts: B3 B4 B7			
						Relay 4 (LH) contact: C4 C5					Relay 4 (RH) contacts: B5 B6 B7			
											Relay 1 (LH) contact: C1 C7			
											Relay 2 (LH) contact: C2 C7			
											Relay 3 (LH) contacts: C3 C4 C7			
											Relay 4 (LH) contacts: C5 C6 C7			

Table A.1 Arrangements of contact, coil and other connections

Arr. 250					Arr. 251					Arr. 252				
Unit					3B Shorting Unit					4F 4B Single Wound / Unit				
	A	B	C	D		A	B	C	D		A	B	C	D
1	*1				1					1	F	F	*1	*6
2	*2				2					2	A	A	*2	*2
3	*3				3	A			B	3	F	F	*1	*1
4	*3				4					4	A	A	*3	*4
5	*4				5	A			B	5	A	A	*1	*1
6	*4				6					6	B	B	*3	*4
7					7	A			B	7	A	A	*6	*1
8	B				8					8	B	B	*5	*1
R1	F				R1					R1				*5
R3	A				R3					R3				*7

Arr. 253					Arr. 254					Arr. 255				
4F 2B Single Wound / Unit					6F 2B Single Wound / Unit					Unit				
	A	B	C	D		A	B	C	D		A	B	C	D
1	F	F	*1	*6	1	F	F	*1	*6	1			*2	*1
2	A	A	*2	*2	2	A	A	*2	*2	2			*1	*2
3	F	F	*1	*1	3	F	F	*1	*1	3			*3	*1
4	A	A	*3	*4	4	A	A	*3	*4	4			*1	*4
5	A	A	*1	*1	5	F	F	*1	*1	5			*3	*1
6	B	B	*3	*4	6	A	A	*3	*4	6			*1	*4
7			*6	*1	7	A	A	*6	*1	7			*5	*1
8			*5	*1	8	B	B	*5	*1	8			*5	*1
R1				*5	R1				*5	R1	*6			*7
R3				*7	R3				*7	R3	*7			*8

*1	B12 supply	*1	External straps to select time setting	*1	External straps to select time setting	*1	External straps to select time setting
*2	N12 supply	*2	External strap C1 to D2	*2	External strap C2 to D2	*2	Strap C1-D2 (unnecessary)
*3	Sensing head (1)	*3	External strap C3 to C5	*3	External strap C4 to C6	*3	Strap C3-C5 (unnecessary)
*4	Sensing head (2)	*4	External strap D4 to D6	*4	External strap D4 to D6	*4	Strap D4-D6 (unnecessary)
		*5	External strap C7 to R2 (coil N50)	*5	External strap C8 to R2 (coil N50)	*5	External relay coil
		*6	External strap D1 to C8 (D1 may also be strapped as *1)	*6	External strap D1 to C7 (D1 may also be strapped as *1)	*6	N50
		*7	Coil B50	*7	Coil B50	*7	B50 (Control)
						*8	Earth

Table A.1 Arrangements of contact, coil and other connections

Arr. 256					Arr. 257					Arr. 258				
	A	B	C	D		A	B	C	D		A	B	C	D
1	A	A	A	*1	1	F	F	*1	F	1	F	F		
2	F	F	F		2	A	A		A	2	A	A		
3	B	B	B	B	3	F	F	*1	F	3	B	B		
4	A	A	A	A	4	A	A		A	4				
5	F	F	F	F	5	A	A	*2	F	5				
6	B	B	B	B	6	B	B	*3	A	6				
7	A	A	A	A	7	A	A	*4	A	7				
8	F	F	F	F	8	B	B	*5	B	8	*1	*2		
R1	C _A			C _B	R1	C1			C2	R1	B50			R2
R3	C _C			C _D	R3	C1			C2	R3	N50			R4

<p>1F 2c/o / 1F 2c/o / 1F 2c/o / 2c/o</p> <p>Four Coils Single Wound</p> <p>*1 Coils Common</p> <p>Relay A Contacts grouped: A1 & A2; A3, A4 & A5; A6, A7 & A8</p> <p>Relay B Contacts grouped: B1 & B2; B3, B4 & B5; B6, B7 & B8</p> <p>Relay C Contacts grouped: C1 & C2; C3, C4 & C5; C6, C7 & C8</p> <p>Relay D Contacts grouped: D3, D4 & D5; D6, D7 & D8</p>	<p>3F 1B / 4F 4B</p> <p>Twin Single Wound + Thermal</p> <p>*1 Heater</p> <p>*2 Thermal Front</p> <p>*3 Thermal Arm</p> <p>*4 Thermal Arm</p> <p>*5 Thermal Back</p>	<p>1c/o / 1c/o</p> <p>Twin Single Wound</p> <p>*1 Bell control (1) B50</p> <p>*2 Bell control (2) B50</p>
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Arr. 259					Arr. 260					Arr. 261				
	A	B	C	D		A	B	C	D		A	B	C	D
1	F	F		*2	1	*1	*5	*7		1	A			A
2	A	A		*5	2	B50	*4	*7		2	F			F
3	B	B		*5	3	N50	*6	*8		3	A			A
4				*1	4	*2	*6	*8		4	F			F
5	N50	N50		*2	5	*2	*9			5	B			B
6	*6	*10		*9	6	*2	*10			6	*9			*6
7	B50	B50		*9	7	*2	*11			7	*10			*7
8	*3	*7		*1	8	*3	*11			8	*3			*8
R1	B50				R1					R1	*2			*5
R3	N50				R3					R3	*1			*4

<p>1c/o / 1c/o</p> <p>Twin Unit</p> <p>*1 External B50</p> <p>*2 External N50</p> <p>*3 Bell control (1) B50</p> <p>*4 Bell push (1) B50</p> <p>*5 Block line (1)</p> <p>*6 Bell (1)</p> <p>*7 Bell control (2) B50</p> <p>*8 Bell push (2) B50</p> <p>*9 Block line (2)</p> <p>*10 Bell (2)</p>	<p>Unit</p> <p>*1 Berth track occupied (B50)</p> <p>*2 Pushbutton input</p> <p>*3 FBX input</p> <p>*4 BX input</p> <p>*5 Pushbutton indication</p> <p>*6 Audible alarm input</p> <p>*7 Reset contact</p> <p>*8 Reset audible alarm contact</p> <p>*9 Buzzer supply</p> <p>*10 Buzzer</p> <p>*11 Reset counter contact</p>	<p>1F 1c/o / 1F 1c/o</p> <p>Twin Single Wound / Unit</p> <p>*1 B24</p> <p>*2 N24</p> <p>*3 Relay A input</p> <p>*4 Coil B (B24)</p> <p>*5 Coil B (N24)</p> <p>*6 Relay B stick path</p> <p>*7 Circuit common</p> <p>*8 Circuit A front + B back</p> <p>*9 Circuit A back + B front</p> <p>*10 Circuit A front + B front</p>
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Table A.1 Arrangements of contact, coil and other connections

Arr. 262					Arr. 263					Arr. 264				
	A	B	C	D		A	B	C	D		A	B	C	D
1	*5	*2		*2	1					1				*1
2	*4	*3		*3	2					2			*1	
3	*7	*1	F	F	3					3				*1
4	*6	*1	A	A	4					4			*1	
5	*8		B	B	5	*1			*2	5				*1
6	*8	F	F	F	6	*1			*2	6			*1	
7	*8	A	A	A	7					7			*2	*1
8	*8	B	B	B	8					8			*2	*1
R1	C2			C1	R1					R1	*3			
R3	C2			C1	R3					R3	*4			*5

2do / 3 co

Unit	Unit	Unit
*1 Capacitor-resistor slug	*1 Track connection	*1 External straps to select time setting
*2 Diodes (+)	*2 Track relay connection	*2 External Relay Coil
*3 Diodes (-)		*3 N50
*4 Delay input (B)		*4 B50 (Control)
*5 Delay input (N)		*5 Earth
*6 Delay output (B)		
*7 Delay output (N)		
*8 Strapping to set delay		

Relay 1 Contacts grouped:
C3, C4 & C5; D3, D4 & D5

Relay 2 Contacts grouped:
B6, B7 & B8; C6, C7 & C8;
D6, D7 & D8

Arr. 265					Arr. 266				
	A	B	C	D		A	B	C	D
1	F _A			F _B	1				
2	A _A			A _B	2				
3					3				
4					4				
5					5				
6				F _C	6				
7	C _C			*1	7				
8	C _C			*2	8	*1			*1
R1	C _A			C _B	R1				
R3	C _A			C _B	R3	*2			*2

1F / 1F / 1F

Three Coils Single Wound	Unit
*1 Capacitor-resistor (A _c)	*1 2 200 µF Capacitor
*2 Diode (A _c)	*2 470 µF Capacitor

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