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BSI Standards Publication

Pin codes for BR 930 series relays – Specification

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Date	Text affected
February 2016	C1. The following pin codes have been amended: 0290, 0292, 0870, 0871, 1122, 1124, 1126, 1128, 1130, 1154, 1156, 1219, 1220, 1224. The following arrangements have been amended: 2, 20, 74, 75, 76, 144, 160, 161, 162, 179, 181, 182, 206, 256.
March 2019	C2. The following arrangements have been corrected in Table A.1: 18,19,20.
January 2020	A1. See Foreword

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Summary of pages

This document comprises a front cover, an inside front cover, pages i to ii, pages 1 to 203, 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.

Supersession

This British Standard supersedes BS 8586:2013, which is withdrawn.

Information about this document

The start and finish of text introduced or altered by Amendment No. 1 is indicated in the text by tags **A1** **A1**. Minor editorial changes are not tagged.

If a previously unallocated pin code is to be used, details of the intended use need to 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 also need to 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.

Where words have alternative spellings, the preferred spelling of the Shorter Oxford English Dictionary is used (e.g. “organization” rather than “organisation”).

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
- A₁ D De-energized contact A₁
- R Reverse contact
- A Contact arm
- H Heavy duty contact
- M Medium duty contact, e.g. Elkonite (silver cadmium oxide to silver cadmium oxide)
- 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
-  S Sensitive 
- 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

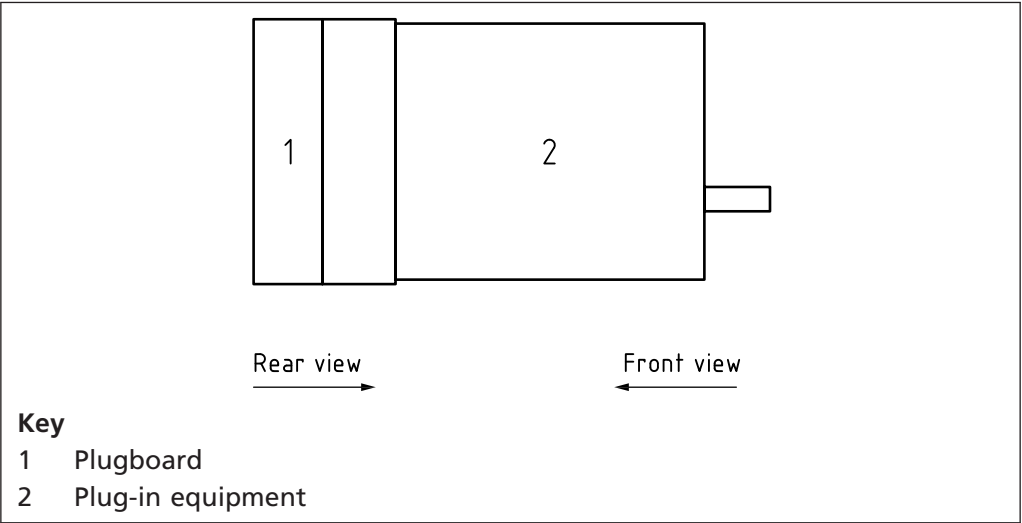
All relays, unless otherwise stated here, operate from d.c. supplies.

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



Dimensions in inches

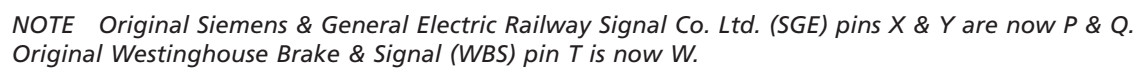


Table 1 Pin codes allocated for GB mainline use and their associated arrangements

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	
		2	8F 4B	BR 930 [2]	ND	24 V	D.C. Neutral Line Relay	double wound
		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	double wound
0002	ABCDF	5	4F 4B	BR 930 [2]	N	24 V	D.C. Neutral Line Relay	
		6	4F 4B	BR 930 [2]	ND	24 V	D.C. Neutral Line Relay	double wound
		7	6F 6B	BR 930 [2]	N	24 V	D.C. Neutral Line Relay	
		8	6F 6B	BR 930 [2]	ND	24 V	D.C. Neutral Line Relay	double wound
		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	double wound
0003	ABCEF	1	8F 4B	BR 930 [2]	N	50 V	D.C. Neutral Line Relay	
		2	8F 4B	BR 930 [2]	ND	50 V	D.C. Neutral Line Relay	double wound
		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	
		6	4F 4B	BR 930 [2]	ND	50 V	D.C. Neutral Line Relay	double wound
		7	6F 6B	BR 930 [2]	N	50 V	D.C. Neutral Line Relay	
		8	6F 6B	BR 930 [2]	ND	50 V	D.C. Neutral Line Relay	double wound
		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	double wound
		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	AEFGH	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
0048	ABFGJ	5	4F 4B				Reed Follower Relay	matched to reed system
		1	8F 4B				Reed Follower Relay	matched to reed system
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	AEFGJ	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	ABCIK	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. ^{A1} Text deleted ^{A1} 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	^{A1}	43	2F	BR 939 [20]	TA2	20 Ω	A.C. Immune D.C. Neutral Track Relay	back contacts used for condition monitoring ^{A1}
		90	2F 2B	(BR 939) [20]	TA2	20 Ω	A.C. Immune D.C. Neutral Track Relay	
		163	2F 2B	(BR 939) [20]	TA2	20Ω	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	BDEFH	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		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
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
		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)	time delay configured by external strapping
		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)	
		218	1F 1B		ET	24 V	Slow Operate Electronic Timer (3-381s)	time delay configured by external strapping
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		 S 	45 V	D.C. Neutral Relay with special sensitivity	for use as axle counter coincidence relay
0204	CDEHJ				 S 	40 V	D.C. Neutral Relay	with special sensitivity
0205	CDFGJ	1	8F 4B		 SRH 	24 V	A.C. Immune D.C. Neutral Line Relay Slow Release	with high drop away
0206	CDFHJ	1	8F 4B		 SRH 	50 V	A.C. Immune D.C. Neutral Line Relay Slow Release	with high drop away
0207	CDGHJ	3	12F 4B		 NH 	50 V	D.C. Neutral Relay	with high drop away
0208	CEFGJ	9	8F 8B		 NH 	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	
		92	4B / 4B		SU		Geographical Shorting Unit	
0216	CDFGK	20	6F 2B / 6F 2B	BR 963 [31]	NNS	50 V	Twin D.C. Neutral Line Relay Slow Acting	
		93	2B / 2B		SU		Geographical Shorting Unit	
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	CEFHK	94	4F 2B / 4F 2B		LL1	24 V	Twin Magnetically Latched Timer	
0224	CEFJK	94	4F 2B / 4F 2B		LL1	50 V	Twin Magnetically Latched Timer	
0225	CEGHK	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	CFGHK	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	DEGHK	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) two arrangements allocated by SGE
		5	4F 4B		N	12 V	D.C. Neutral Line Relay	
		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 55 55 55	1F 1B 1F 1B 1F 1B 1F 1B			50 V 50 V 50 V 50 V	Impulse Timer (5 Steps) Impulse Timer (10 Steps) Impulse Timer (15 Steps) Impulse Timer (20 Steps)	seven settings

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	A EGLM	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	ADEMN	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
A1 0669	BFGJL	157	1N 1D 1R		BB2	12 V	Biased Relay pair (3 position polar relay)	coils connected in series A1
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	BGLM						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	with palladium contacts
		120	3B / 3B		SU		Geographical Shorting Unit	
0870	BGKMN	33	4F 3B / 4F 3B		NNMD2	50 V	Twin D.C. Neutral Relay	double wound with palladium contacts
		36	3B / 3B		SU		Geographical Shorting Unit	
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	CEFGL							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	4F 3B / 4F 3B		NNMD1	50 V	Twin D.C. Neutral Relay	double wound with medium duty contacts
		36	3B / 3B		SU		Geographical Shorting Unit	
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	2F			50 V	D.C. Neutral Relay Slow Release (1s delay)	five arrangements
		127	2F			50 V	D.C. Neutral Relay Slow Release (2s delay)	
		128	2F			50 V	D.C. Neutral Relay Slow Release (3s delay)	
		129	2F			50 V	D.C. Neutral Relay Slow Release (4s delay)	
		130	2F			50 V	D.C. Neutral Relay Slow Release (5s delay)	
1057	DEFGL	9	8F 8B	BR 966 F3 [35]	NE1	24 V	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
		9	8F 8B		NM1	24 V	D.C. Neutral Line Relay	
		11	8F 8B	BR 966 F3 [35]	NDE	24 V	D.C. Neutral Line Relay	
1058	DEFHL							reserved
1059	DEFJL	125	6F 2B / 2F 1B	BR 962 [24]	JN	50 V	Twin D.C. Thermal Timer (30-120s)	
		131	2B		SU		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	