

Siemens.com/mobility

## QS2 Relay

A sensitive, dc neutral, tractive armature relay

### General data

Contact Arrangement:	2F 2B, 6F 6B
Nominal Rated Voltage:	12V, 50V dc
Approximate Weight:	1.58 kg

Note: Refer to the following data sheets:

- 7-1-1 for general information and contact ratings.
- 7-2-1 for dimensions.
- 8.2 for tools.
- 8.3 for plugboard and connector details.

Refer overleaf for specific data.



B18528/9 Variant

### Description

Designed for use over long supply lines where the voltage drop, caused by the current of a normal relay, would be excessive. The guaranteed minimum UTS voltage is 36 V instead of the normal 40 V quoted for a 50 V working relay. This increases the cable voltage drop allowable.

Note: In ac traction areas, due to the high sensitivity of relay B18528/2 a screened cable must be used for the supply.

Relays B18528/8 and B18528/9 are not designed for use with long supply lines and do not require screened cable in ac traction areas.

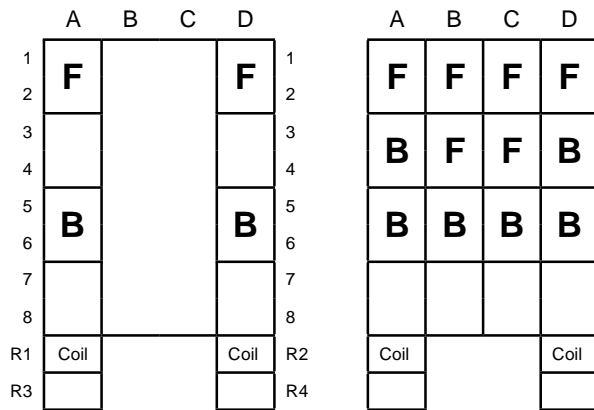
Relay B18528/2 supersedes the QS1 but is not a direct replacement for it because of its different coil resistance and interlocking pin code.

Relay B18528/8 is a low power 12 V relay equivalent to Australian relay M25028.

Relay B18528/9 is identical to B18528/8 apart from having a Network Rail Pin Code (0116) so that it can be used on the Network Rail Infrastructure.

Network Rail Product Acceptance Certificate PA05/02986 applies to Relay B18528/9. This permits the relay to be used for general use as a 12 V dc line relay, as well as an interface for a WESTeX Level Crossing Predictor.

## Contact layout viewed from rear



## Packaging

Q-Relays are packed in a carton holding ten relays; the same container is used for quantities of four to nine relays. Quantities less than four are packed individually in cardboard boxes, as are all train-carried relays. Each container has a bar-coded label affixed to the outside, stating details of the packaged relay(s) and the quantity therein.

## EMC Compliance

Q-Relays comply with the relevant emission requirements of EN 55014. It is considered that these relays have inherent immunity to in-service electro-magnetic disturbance.

A Technical Certificate for EU Directive on EMC (89/336/EEC) has been obtained.

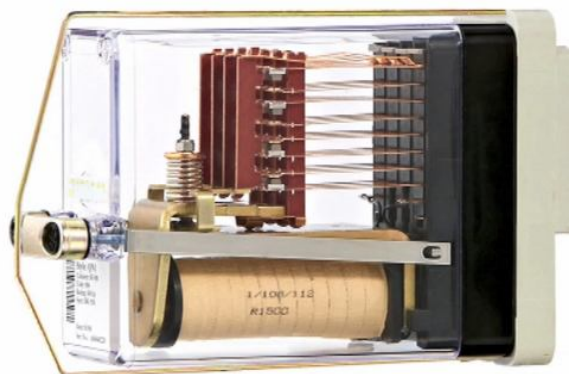
## Technical data

SIEMENS Part No. (PAD No.)	CONTACT ARRANGEMENT	RATED VOLT-AGE (V dc)	PIN CODE	COIL RES (OHMS)	WDG SPEC 1/108/-	MAX FULL OP. (V dc)	MIN REL (V dc)	MAX FULL REL. (V dc)	PLUGBOARD	REQD No. OF CONNECTORS J4137/3	REMARKS
B18528/2 (85/001955)	2F 2B	50	201 CEF GH	16000	134	36	7.5	4.0	J4138/329	10	
B18528/8	6F 6B	12	XBCGH	500	191	9.6	2.5	1.0	J4138/460	26	M25028 EQUIVALENT
B18528/9 (88/030997)	6F 6B	12	0116	500	191	9.6	2.5	1.0	J4138/493	26	

Note: Plugboard Part No. in table (one per relay), Retaining Clip J4136/1 (one per relay) and Connector J4138/3 (quantity as above) to be ordered separately.



Un-drilled plugboard  
Part No. E7218/1



Representation of Relay,  
Plugboard and Retaining clip  
(Clip Part No. J4136/1)

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# SIEMENS

The information within this document contains general descriptions of the technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.