/// BR930 Series - Electromechanical Signalling Relay

TY163/GRP05

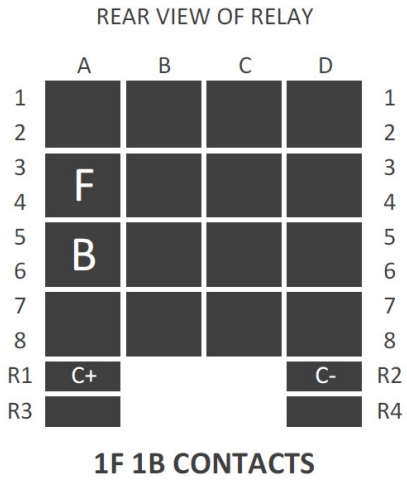
QRJ1 1F1B 22-30V

DC Neutral Time Delay Relay.

Features

The TY163/GRP05 is a 1F 1B relay for use where a 10 second time delay is required upon de-energisation which is in excess of that obtainable conveniently from a relay with a slugged iron circuit.
The time delay is achieved via a resistor/capacitor circuit. The delay is not adjustable.
Of compact modular plug-in design it has non-weld contacts and is equipped with a safety interlocking system (pin code) for insertion into mating plugboards.

Contact arrangement



1F 1B CONTACTS

General characteristics

PADS Reference	0085/002508
Pin code	236 DFGHJ
Contact arrangement	1F 1B
Coil configuration	Single wound single coil
Resistance of winding(s)	3600Ω
Rating	22-30 VDC
Weight	1.0 kg
Plugboard	TY081-001 PADS Ref 0085/002081 See plugboard datasheet for more information

Specific characteristics

AC Immunity Coil RMS voltage at 50 Hz frequency that can be applied without generating the closing of any of the front (N/O - Normally Open) contacts	This relay is not AC immune
DC Biasing Maximum supply which can be applied connected in reverse polarity and shall not result in the breaking of any back contact of the relay	This relay is not DC biased

Electrical characteristics

Operate value	Not specified in BR946
Full operate value	19.2V
Release value	3.6V
Full release value	2.0V
Operate time	Not specified in BR946
Release time	10s @30 VDC
Interrupt time	Not specified in BR946
Signalling contact pressure	28 g (1 oz) min

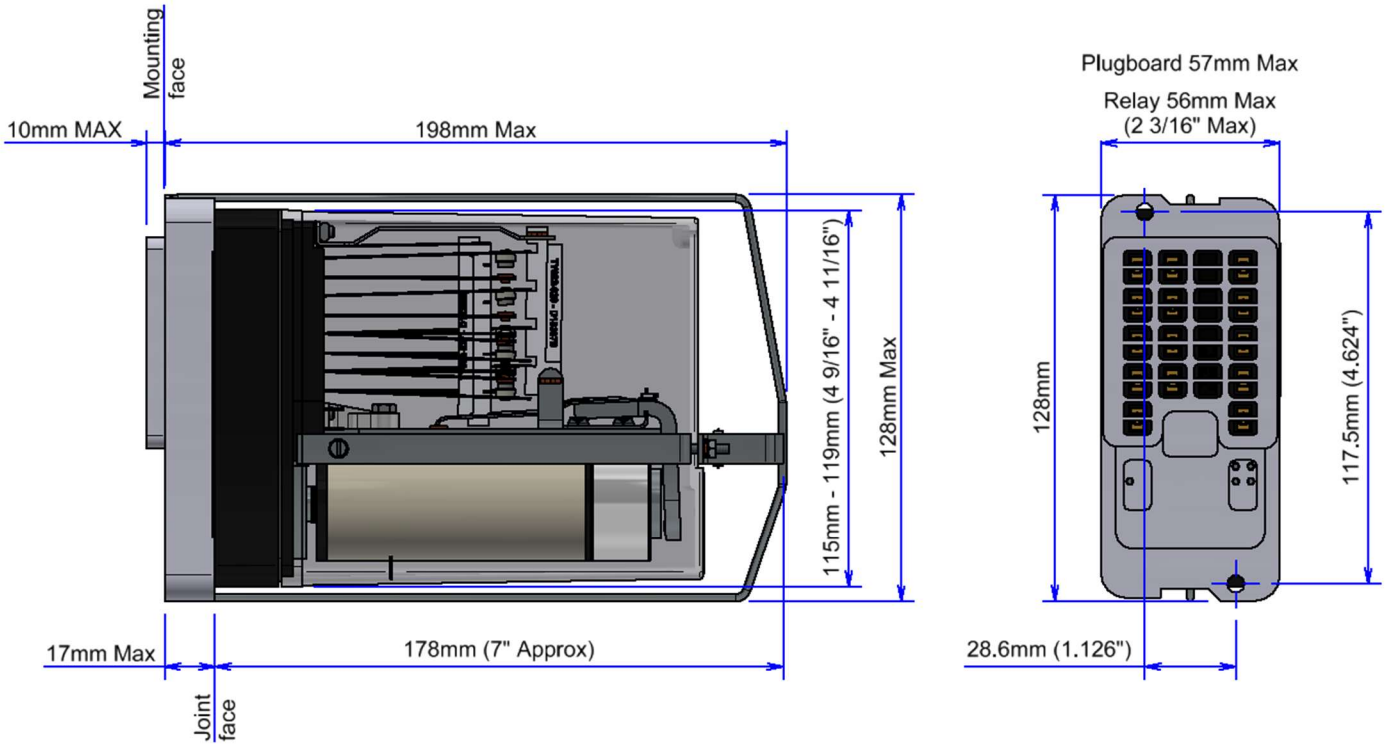
Product acceptance certification

Network Rail UK: PA05/04802

Outline drawing

DC Neutral Time Delay Relay

TY163/GRP05



Imperial dimensions in brackets are those specified in BR930

Dimensions illustration shows generic BR930 relay.

Note

BR930 relays are optimised to switch traditional signalling circuits consisting of the coils of other relays and incandescent lamps. Their contacts are non-weld, not weld-no-transfer. Signalling schemes using these relays must be designed to operate safely within these constraints. Furthermore, it is the operators' responsibility to ensure compliance with the requirements of clauses 1.2, 5.2, 8.1, 8.2 and 12.1 of BR930.

Over 10 million Mors Smitt relays in use in rail transport applications worldwide!

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