/// BR930 Series - Electromechanical Signalling Relay

TY156/GRP05

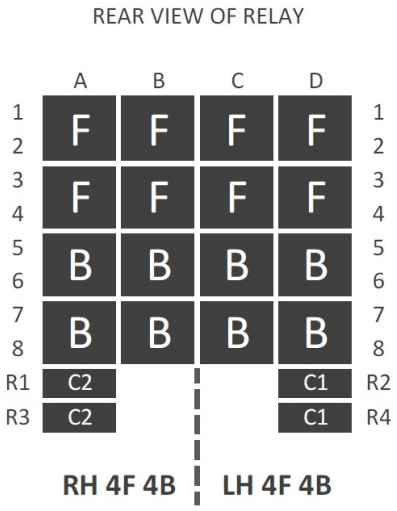
QNN1 2×4F4B 24V

Twin DC Neutral Line Relay to BR960.

Features

The TY156/GRP05 is a Twin 4F 4B Neutral Line Relay for general railway trackside signalling applications where special characteristics such as AC immunity, slow release etc. are not required.
Twin relays consist of two relays which in effect are electrically and mechanically independent, housed in a single enclosure to the dimensions of a single relay to BR930.
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



General characteristics

PADS Reference	0085/001600
Pin code	057 ACEHJ
Contact arrangement	4F 4B LH&RH
Coil configuration	Single wound twin coil
Resistance of winding(s)	250Ω
Rating	24V DC
Weight	1.2 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

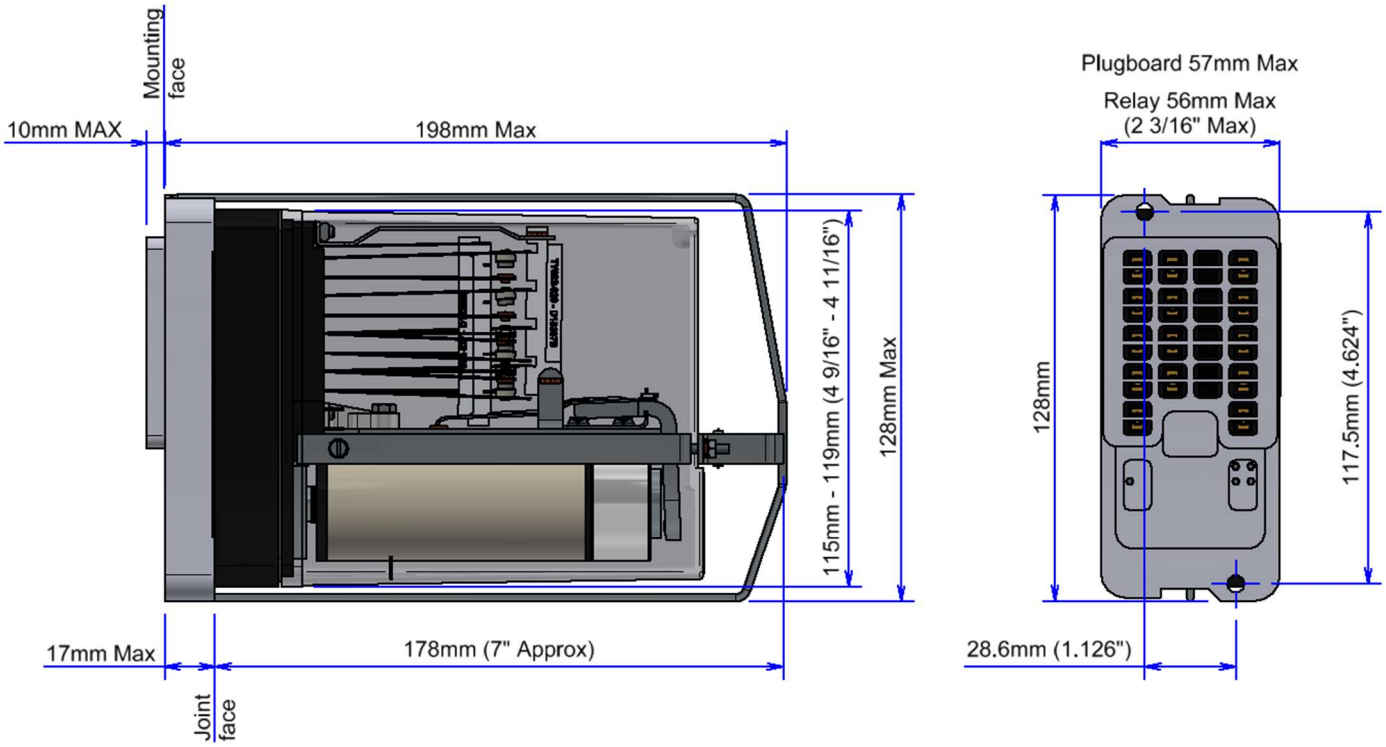
Operate value	Not specified in BR960
Full operate value	19.2V
Release value	3.6V
Full release value	2.0V
Operate time	Not specified in BR960
Release time	Not specified in BR960
Interrupt time	Not specified in BR960
Signalling contact pressure	28 g (1 oz) min

Product acceptance certification

Network Rail UK: PA05/04802

Outline drawing

Twin DC Neutral Line Relay to BR960
TY156/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!

Mors Smitt Asia Ltd.
26/F., Casey Aberdeen House
38 Heung Yip Road, Wong Chuk Hang
Hong Kong
Tel: +852 2343 555
sales.msa@wabtec.com

Wabtec Netherlands B.V.
Darwinstraat 10,
6718 XR Ede, Netherlands
Tel: +31 (0)88 600 4500
sales.msbv@wabtec.com

Mors Smitt France SAS
2 Rue de la Mandinière
72300 Sablé-sur-Sarthe, France
Tel: +33 (0) 243 92 82 00
sales.msf@wabtec.com

Mors Smitt Technologies Ltd.
1010 Johnson Drive,
Buffalo Grove, IL 60089-6918, USA

mst_salessupport@wabtec.com.

Mors Smitt UK
Graycar Business Park,
Burton on Trent, DE13 8EN, UK
Tel: +44 (0)1283 357 263
sales.msuk@wabtec.com

RMS Mors Smitt
19 Southern Court,
Keysborough, VIC 3173, Australia
Tel: +61 (0)3 8544 1200
sales.rms@wabtec.com