

/// BR930 Series - Electromechanical Signalling Relay

TY156/GRP11

QNND1 2×4F3B 24V

Twin Double Wound DC Neutral Line Relay to BR960.



Features

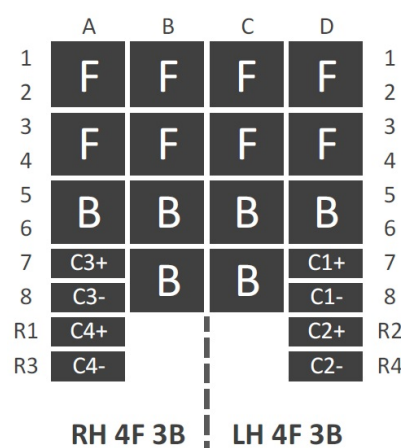
The TY156/GRP11 is a Twin 4F 3B Neutral Line Relay for general railway trackside signalling applications where special characteristics such as AC immunity, slow release etc. are not required.

Double windings allow use in railway signalling circuits where operation from either of two separate supplies is 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.

Contact arrangement

REAR VIEW OF RELAY



General characteristics

PADS Reference	0085/001710
Pin code	054 ACDHJ
Contact arrangement	4F 3B LH&RH
Coil configuration	Double wound twin coil
Resistance of winding(s)	250Ω & 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

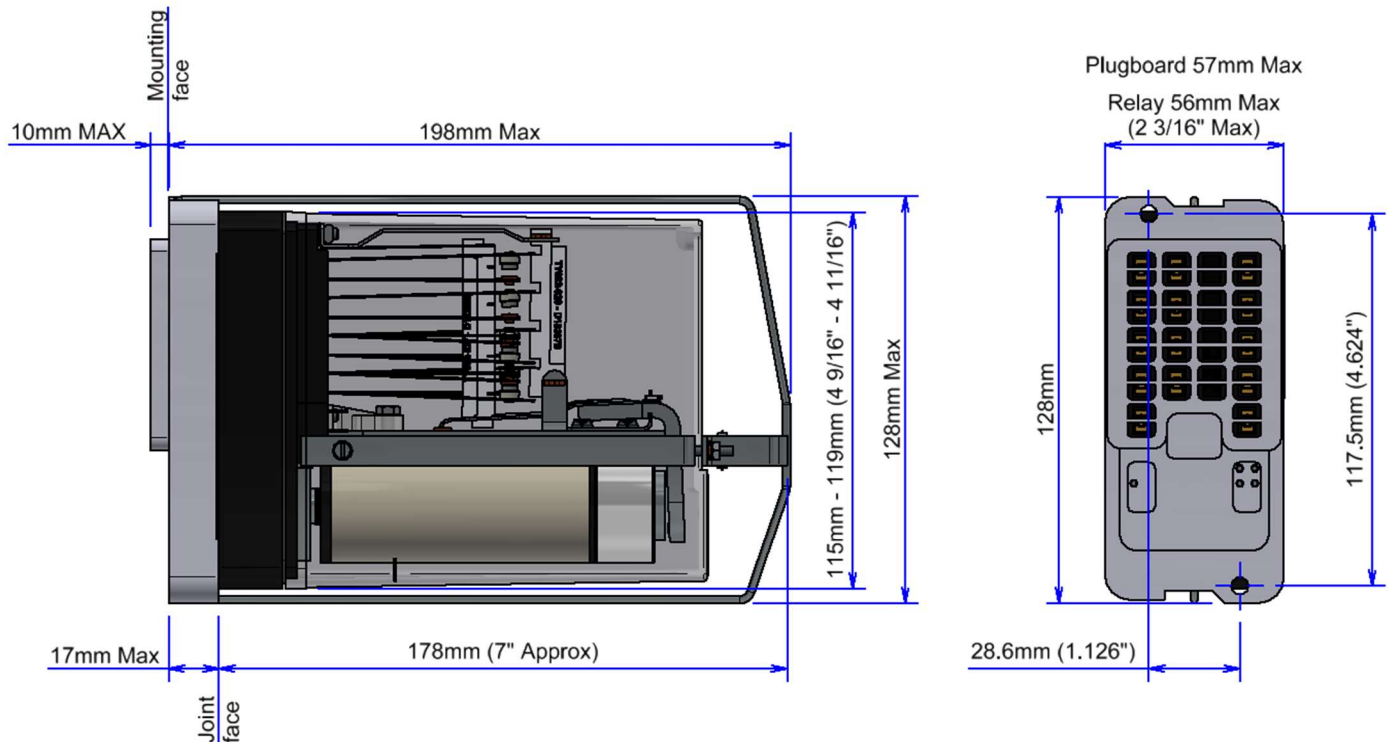
Product acceptance certification

Network Rail UK: PA05/04802

Outline drawing

Twin Double Wound DC Neutral Line Relay to BR960

TY156/GRP11



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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