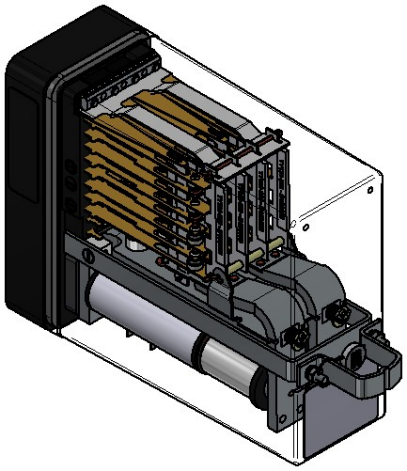
/// BR930 Series - Electromechanical Signalling Relay

TY160/GRP01

QNNA1 2×6F2B 50V

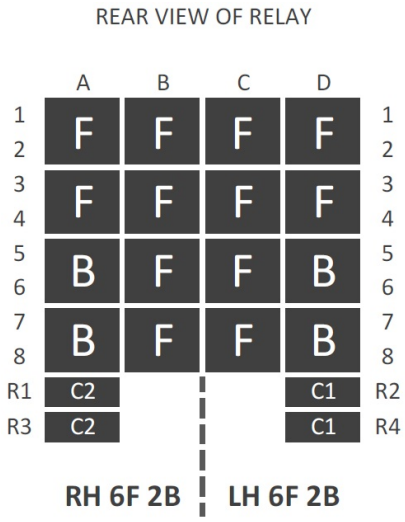
Twin AC immune DC neutral line relay to BR966 F6.



Features

The TY160/GRP01 is a Twin 6F 2B AC Immune DC neutral line relay for general railway trackside signalling applications where special characteristics such as 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	0085/001665
Pin code	209 CEFHJ
Contact arrangement	6F 2B LH&RH
Coil configuration	Single wound twin coil
Resistance of winding(s)	935Ω
Rating	50V DC
Weight	1.3 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	AC immune to 1000V 50hz
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 BR966 F6
Full operate value	40.0V
Release value	7.5V
Full release value	4.0V
Operate time	<200ms @ 80% of Nominal Voltage
Release time	<200ms @ 120% of Nominal Voltage
Interrupt time	Not specified in BR966 F6
Signalling contact pressure	28 g (1 oz) min

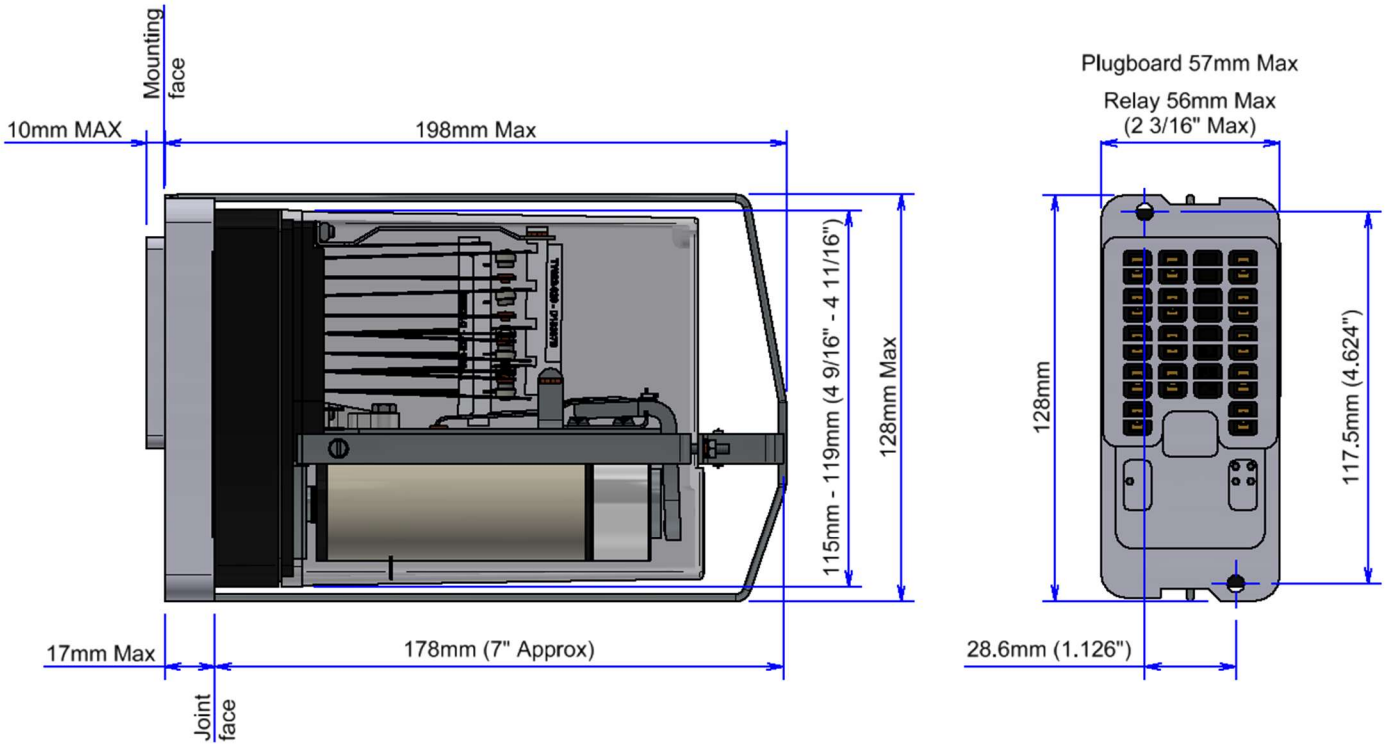
Product acceptance certification

Network Rail UK: PA05/04802

Outline drawing

Twin AC immune DC neutral line relay to BR966 F6

TY160/GRP01



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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