

/// BR930 Series - Electromechanical Signalling Relay

TY082/GRP35

QNH 12F4B 24V

DC neutral line relay with high release voltage nominally to BR930.



Features

The TY082/GRP35 is a 12F 4B Neutral Line Relay with high release voltage for general railway trackside signalling applications where special characteristics such as AC immunity, slow release etc. are not required. This is equivalent to ZS5513. 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

REAR VIEW OF RELAY

	A	B	C	D	
1	F	F	F	F	1
2	F	F	F	F	2
3	F	F	F	F	3
4	F	F	F	F	4
5	B	F	F	B	5
6	B	F	F	B	6
7	B	F	F	B	7
8	B	F	F	B	8
R1	C			C	R2
R3					R4

12F 4B CONTACTS

General characteristics

PADS Reference	0085/000231
Pin code	033 ADEGH
Contact arrangement	12F 4B
Coil configuration	Single wound single coil
Resistance of winding(s)	250Ω
Rating	24 VDC
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	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

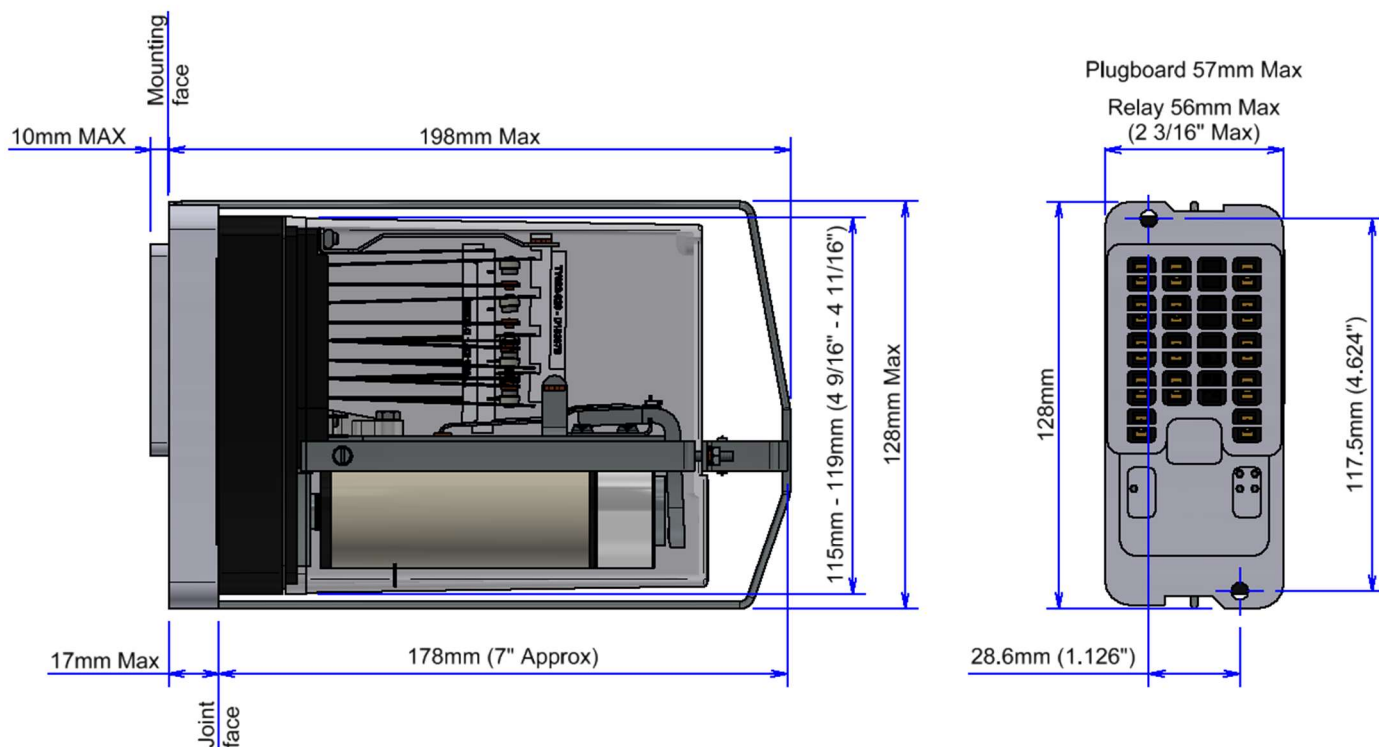
Operate value	Not specified in BR930
Full operate value	14.0-19.2V
Release value	8.5V
Full release value	Not Specified
Operate time	Not specified in BR930
Release time	Not specified in BR930
Interrupt time	Not specified in BR930
Signalling contact pressure	28 g (1 oz) min

Product acceptance certification

Network Rail UK: PA05/04802

Outline drawing

DC neutral line relay with high release voltage nominally to BR930 TY082/GRP35



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

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

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

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

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