

/// BR930 Series - Electromechanical Signalling Relay

TY083/GRP01

QNA1 12F4B 24V

AC Immune DC Neutral Line Relay to BR931A.



Features

The TY083/GRP01 is a 12F 4B AC Immune DC Neutral Line Relay for general railway trackside signalling applications where special characteristics such as slow release etc. are not required. 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	0085/000650
Pin code	021 ABDFH
Contact arrangement	12F 4B
Coil configuration	Single wound single coil
Resistance of winding(s)	250Ω
Rating	24 VDC
Weight	1.4 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

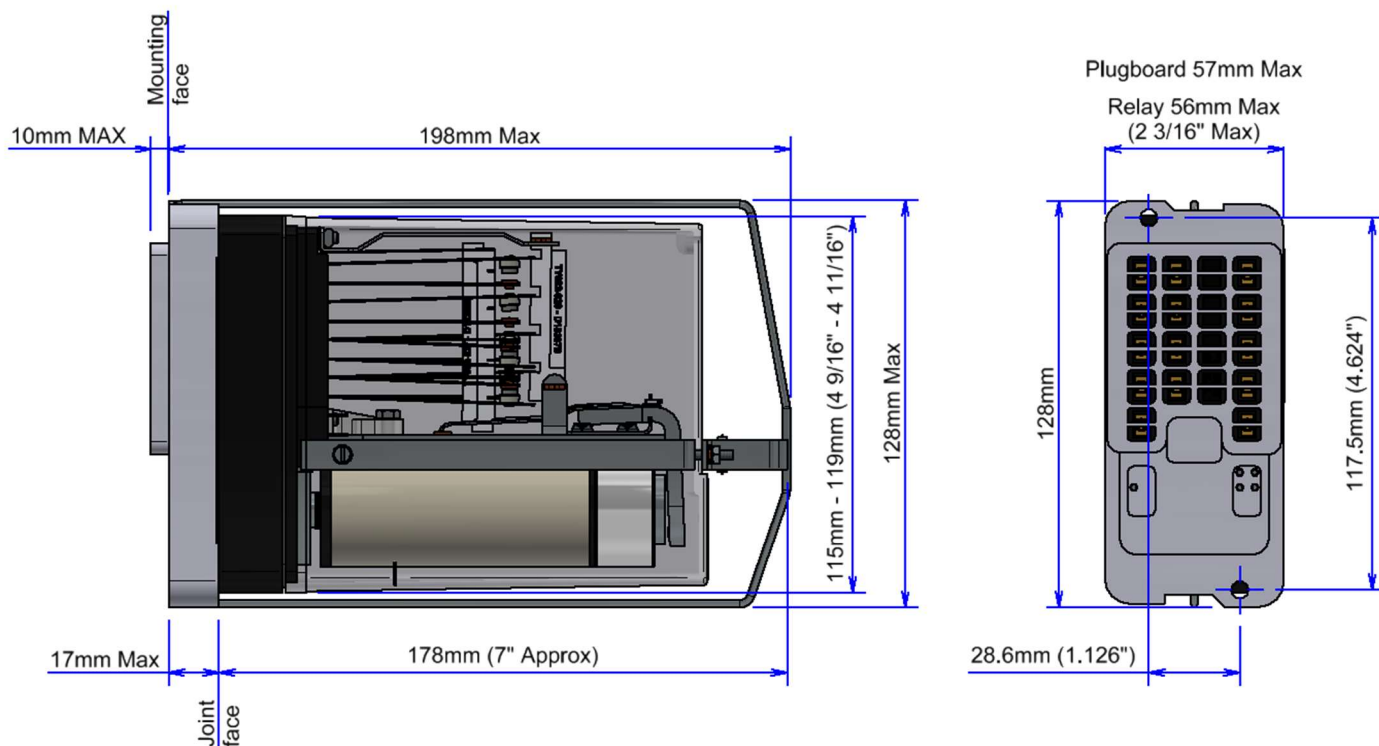
Operate value	Not specified in BR931A
Full operate value	19.2V
Release value	3.6V
Full release value	2.0V
Operate time	Not specified in BR931A
Release time	Not specified in BR931A
Interrupt time	Not specified in BR931A
Signalling contact pressure	28 g (1 oz) min

Product acceptance certification

Network Rail UK: PA05/04802

Outline drawing

AC Immune DC Neutral Line Relay to BR931A TY083/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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