

## /// BR930 Series - Electromechanical Signalling Relay

### TY084/GRP09

#### QBA1 6F6B 50V

AC Immune DC Biased Line Relay  
to BR932A.



#### Features

The TY084/GRP09 is a 6F 6B AC Immune DC Biased 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	1
2					2
3	F	F		F	3
4					4
5	B	B		B	5
6					6
7	B	B		B	7
8					8
R1	C			C	R2
R3					R4

6F 6B CONTACTS

#### General characteristics

PADS Reference	0085/000890
Pin code	028 ACDGH
Contact arrangement	6F 6B
Coil configuration	Single wound single coil
Resistance of winding(s)	950Ω
Rating	50 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	Immune to 1000VDC applied in the reverse sense.

#### Electrical characteristics

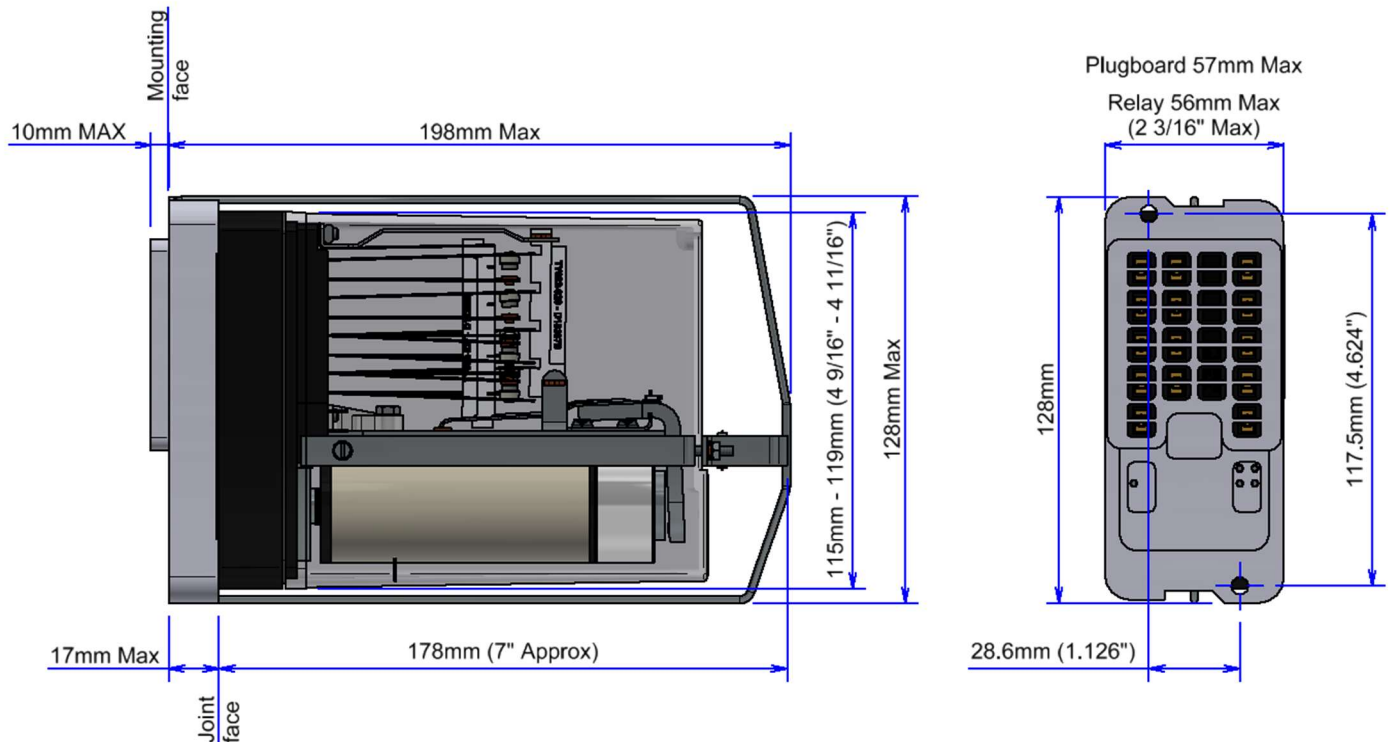
Operate value	Not specified in BR932A
Full operate value	40.0V
Release value	7.5V
Full release value	4.0V
Operate time	Not specified in BR932A
Release time	Not specified in BR932A
Interrupt time	Not specified in BR932A
Signalling contact pressure	28 g (1 oz) min

#### Product acceptance certification

Network Rail UK: PA05/04802

## Outline drawing

## AC Immune DC Biased Line Relay to BR932A TY084/GRP09



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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