

/// BR930 Series - Electromechanical Signalling Relay

TY133/GRP03

QECF1 4F 4.0A

DC Lamp Proving Relay to BR945.

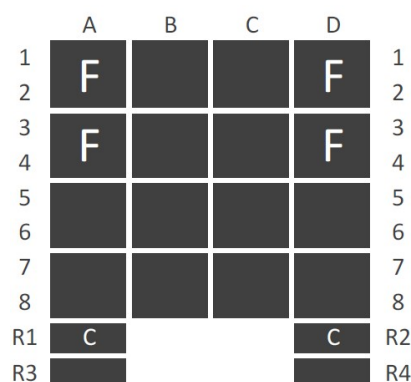


Features

The TY133/GRP03 is a 4F single coil lamp proving relay for flashing lamps having a DC supply. Typically TY133/GRP03 relays are used for flashing road signals at level crossings. 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



4F CONTACTS

General characteristics

PADS Reference	0085/001450
Pin code	091 ABHJK
Contact arrangement	4F
Coil configuration	Single wound single coil
Resistance of winding(s)	0.25Ω
Rating	4.0A DC
Weight	1.5 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

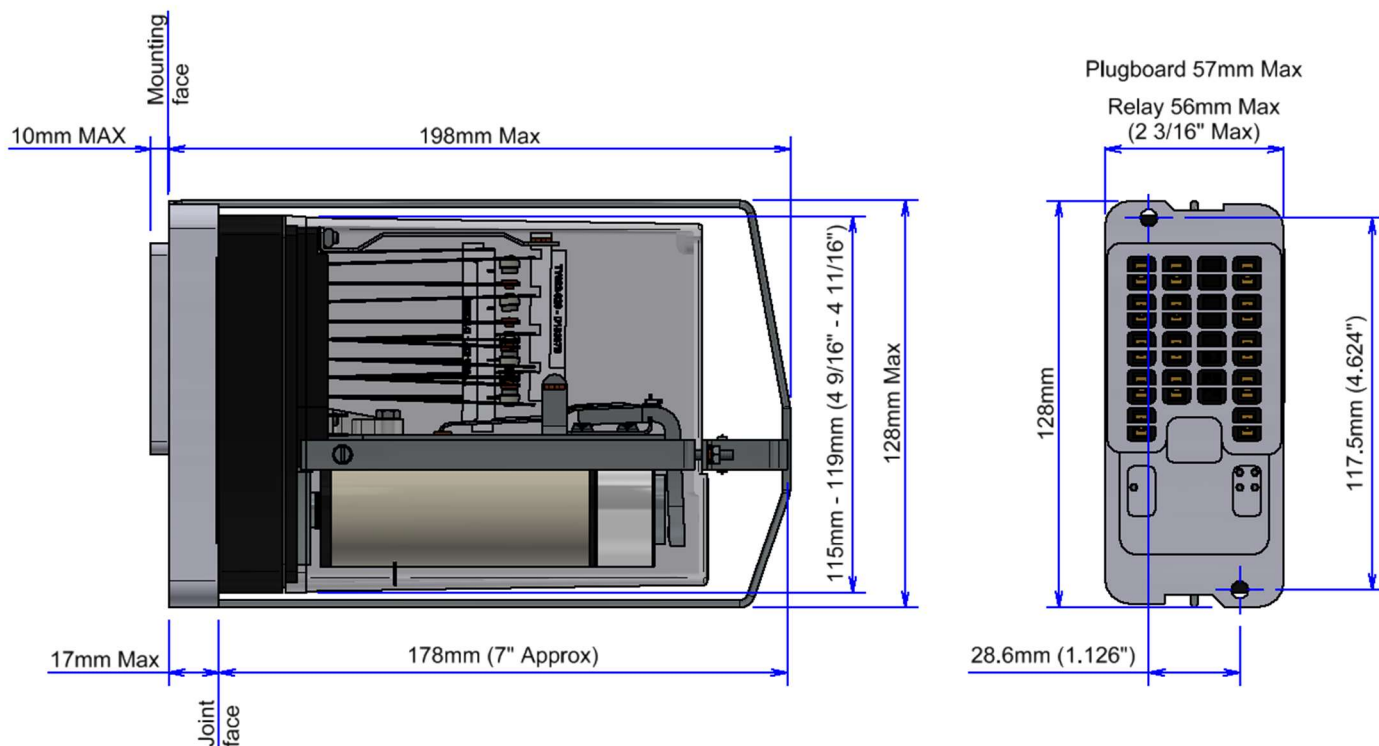
Operate value	-
Full operate value	1.0A
Release value	-
Full release value	0.2A
Operate time	-
Release time	-
Interrupt time	100ms @ 1.5A
Signalling contact pressure	28 g (1 oz) min

Product acceptance certification

Network Rail UK: PA05/04802

Outline drawing

DC Lamp Proving Relay to BR945 TY133/GRP03



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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