Explosion-proof telephone connecting relay mTAR

Connecting relay for indoor and outdoor use

- Protection class IP 66 in acc. with EN60529
- Ambient temperature -40 °C to +70 °C
- II 2G Ex e ib mb IIC T4 Gb
- II 2D Ex tb IIIC T135°C Db

Application

The telephone connecting relay mTAR serves for call signalling through providing potential-free switching contacts for the connection of signalling devices. This means for example that up to two external devices (e.g. a horn and a flashlight) can be switched on via call signal. The call break bypass can be individually adjusted for one of the connected devices.

Design

The telephone connecting relay type mTAR has an unpainted housing made of electrostatically conductive compressed material.The housing consists of a box-shaped lower part for receiving the electronics module. The electronics module is firmly cast into the lower part of the housing and cannot be exchanged.

The cover is pressed onto the lower part of the housing using four screws, with a circumferential seal positioned in between. This forms the non-intrinsically-safe connection compartment.

Second telephone signal in hazardous areas

two external devices e.g. a horn and a flashlight can be switched on via callsignal.

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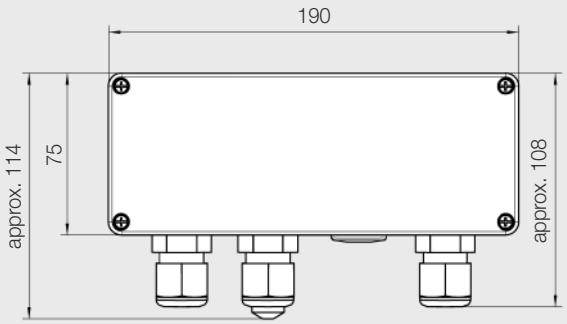
Technical specifications

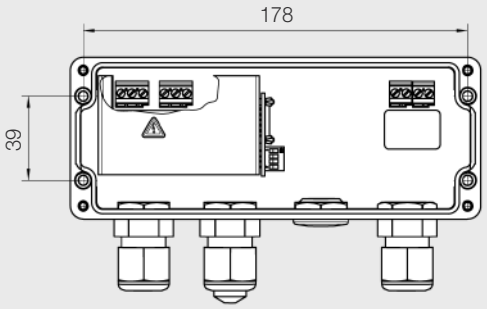
Housing	
Material	Glass-fibre reinforced polyester
Height x width x depth	75 x 190 x 75 mm
Weight	Approx. 1.1 kg
Normal operating position	Any
Protection class	IP 66 in accordance with EN60529
Operating	-40 °C to + 70 °C
Expl. protection class	II 2G Ex e ib mb IIC T4 Gb II 2D Ex tb IIIC T135°C Db
Further features	
Power supply	Call AC voltage from the analogue telephone network. TNV-3 circuit. U = AC 30 V… 100 V
Call impedance	≥ 8 kΩ (@ 30 V … 100 V / 20 … 68 Hz)
Modes of operation	Function of relay contact 1 (terminals 1 and 3) adjustable by means of sliding switches: Sliding switch 4 = OFF => contact follows the call signal Sliding switch 4 = ON => contact closes for approx. 1.5 s. Function of relay contact 2 (terminals 4 and 6) adjustable by means of sliding switches. The contact always follows the call signal. After the call signal, i.e. in the call break that follows, the contact remains closed for the duration according to the following setting (call break bypass). 1 = ON => call break bypass approx. 1 sec. 2 = ON => call break bypass approx. 2 sec. 3 = ON => call break bypass approx. 3 sec. 1 to 3 = OFF => call break bypass approx. 9 sec. Combinations are possible:

1	2	3	Call break bypass
ON	OFF	OFF	1 s
OFF	ON	OFF	2 s
OFF	OFF	ON	3 s
OFF	ON	ON	5 s
ON	ON	ON	6 s
OFF	OFF	OFF	9 s

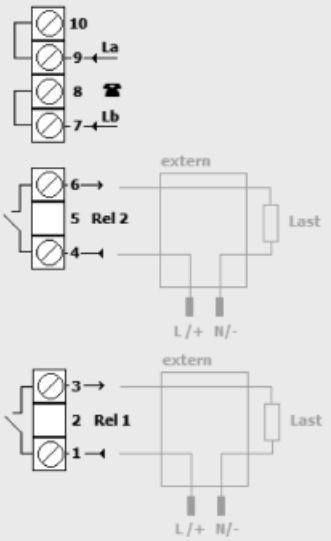
External view



Internal view



Connection diagram



Order information

Type	Designation	Art. No.
mTAR	Telephone connecting relay	118 831 21

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