

Explosion-proof Telephone connecting relay mTAR

Connecting relay for indoor and outdoor applications



Overview

The mTAR Telephone Connecting Relay is used for call signalling purposes. It provides potential-free switching contacts for connection of signalling devices. The relay can be connected with up to two external devices, e.g. a signalling horn and a strobe light, which are actuated via call signal. The ringing break bridging may be set individually.

The mTAR connecting relay comprises an uncoated housing made of electrostatically conductive glass fibre-reinforced polyester. The housing consists of a box-shaped bottom containing the electronics insert. The lid is fitted with a peripheral seal and pressed to the housing bottom with four screws forming a non-intrinsically safe connection compartment of protection class IP 66.

Features

- Protection class IP 66 according to EN60529
- Ambient temperature -40 °C to +70 °C
- II 2G Ex e ib mb IICT4 Gb
- II 2D Ex tb IIIC T135°C Db



Certifications

Protection type	II 2G Ex e ib mb IICT4 Gb II 2D Ex tb IIIC T135°C Db
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Technical Data

Housing	
Material	Glass fibre-reinforced polyester
Dimensions (H/W/D)	75 x 190 x 75 mm
Weight	Approx. 1.1 kg
Cable glands	3 x M20 x 1.5, 1 x blind plug M20 x 1.5
Operating position	Any
Ingress protection	IP 66 according to EN 60529
Operating temperature	-40 °C to +70 °C
Supply	AC ringing voltage from the dem analogue telephone network, TNV-3 circuit U = AC 30 V ... 100 V

Ringing impedance	≥ 8 kΩ (at 30 to 100 V/20 to 68 Hz)
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Operating modes Relay contact 1 function (terminals 1 and 3) adjustable via slide switch:

Slide switch 4 = OFF => contact follows call signal
Slide switch 4 = ON => contact closes approx. 1.5 sec.

Relay contact 2 function (terminals 4 and 6) adjustable via slide switch:
The contact always follows the call signal.

After the call signal, i.e. during the following ringing break, the contact remains closed in accordance with the following settings (ringing break bridging)

1 = ON => ringing break bridging approx. 1 sec.
2 = ON => ringing break bridging approx. 2 sec.
3 = ON => ringing break bridging approx. 3 sec.
1 to 3 = ON => ringing break bridging approx. 9 sec.
combinations are possible:

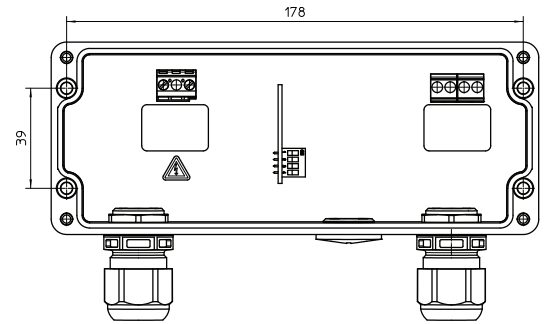
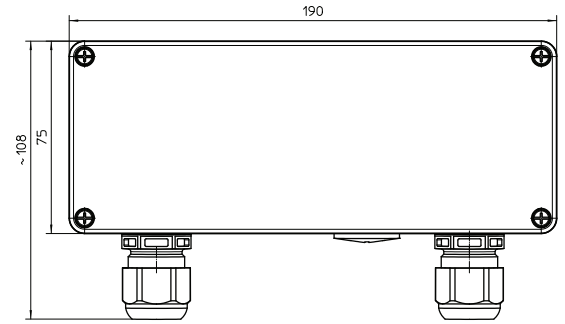
1	2	3	ringing break
ON	OFF	OFF	1 s
OFF	ON	OFF	2 s
OFF	OFF	ON	3 s
OFF	ON	ON	5 s
ON	ON	ON	6 s
OFF	OFF	OFF	9 s

Contact	$U_{max} = AC 250 V, I_{max} = 5 A$ (see operating manual)
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Ordering requirements

Type	Designation	Art.-No.
mTAR	Telephone Connecting Relay	FHF 118 831 21

General arrangement
all dimensions in mm



Connection diagram

