



Ex magnetic sensors

Ex RC M14 1W - 5m

Material number: 1189239 (Material number (old): 21433501)

Features/Options

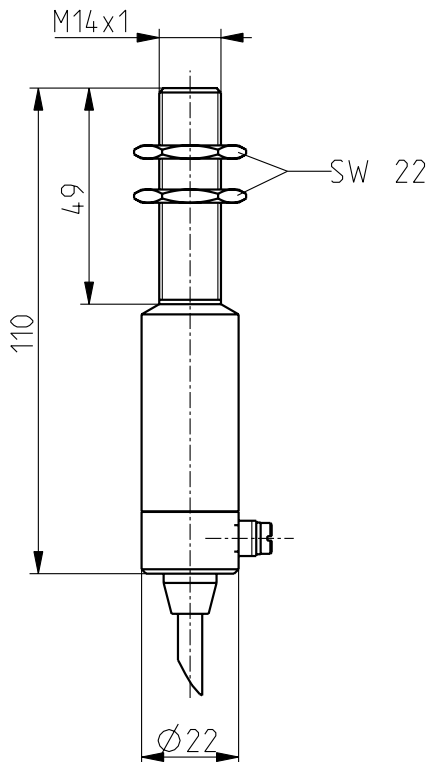
- Ex zone 1 and 21
- Brass enclosure, nickeled
- Long life
- 1 Reed contact
- Actuation from front

Notes

- 2 mounting nuts are included in delivery
- The actuator is not included in the delivery of the switches

- Switching distance up to 30 mm depending on the actuating magnet
- With pre-wired cable
- 2 hexagon nuts are provided
- N.B.: Please state required approvals for Russia and Brazil with your order!

Dimensions



Technical data

Standards

EN 60947-5-1; EN 60079-0;
EN 60079-18

Enclosure

brass, nickeled

Actuator

series M permanent magnet

Degree of protection

IP 67 to IEC/EN 60529

Contact material

Rhodium

Switching system

reed contacts

Switching elements

change-over contact

Connection

pre-wired cable H05VV-F

Cable cross-section

4 x 0.75 mm²

Cable length

5 m

Switching voltage

250 VAC

Switching current

1.5 A

Short-circuit current

max. 2 A

Switching capacity

max. 50 W

Utilisation category

AC-12; DC-12

Bounce duration

0.3 ... 0.6 ms

Ambient temperature

-20 °C ... +70 °C

Mechanical life

> 1 million operations

Electrical life

10⁶ ... 10⁹ operations

Vibration resistance

10 ... 50 g

Note

Switch must be protected from mechanical damage!

Ex marking

⊕ II 2G Ex mb IIC T6 Gb,

⊕ II 2D Ex mb IIIC T80 °C Db IP67

IECEx Ex mb IIC T6 Gb,

Ex tb IIIC T80 °C Db IP67

Approvals

DMT 01 ATEX E 058 X

IECEx BVS 07.0007 X

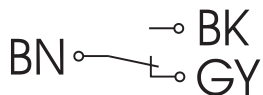


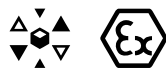
Weight

560 g

Errors and omissions excepted.

Contact diagram





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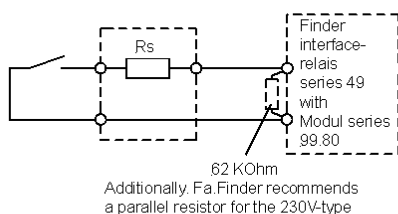
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Directive for the protection of reed contacts

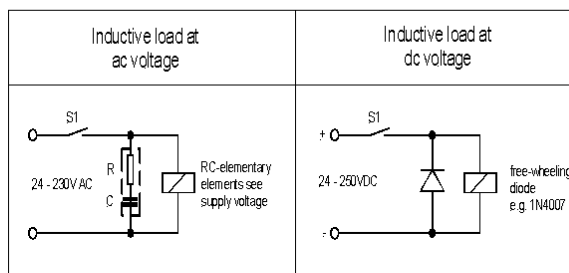
With unknown input currents, input capacitances we recommend the interposing of an interface relays. When using Finderrelais series 49, in the following you will find some proposals to protect the reed contact against overload.

coil voltage	serial resistor R_s
24 VDC	27 Ohm
24 VAC	39 Ohm
230 VAC	330 Ohm / 0,6 W

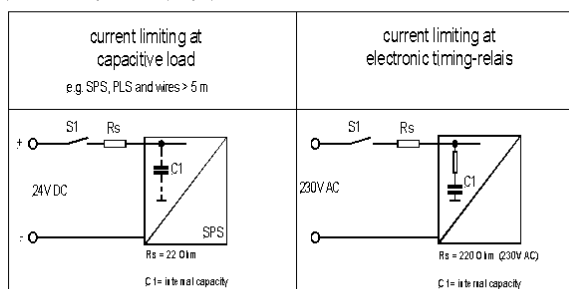
Due to the cable capacitances it is necessary to place the series resistors as near as possible to the reed contact, in general the next terminal point (junction box)



At inductive load:



At capacity load, wires longer than 5m or connection with process control system with capacity input:



It is to observe the electrical data (switching voltage, switching current, switching capacity)