Ex magnetic sensors
Ex RC M20 1W - 5m - Niro
Material number: 1178197 (Material number (old): 22039502)

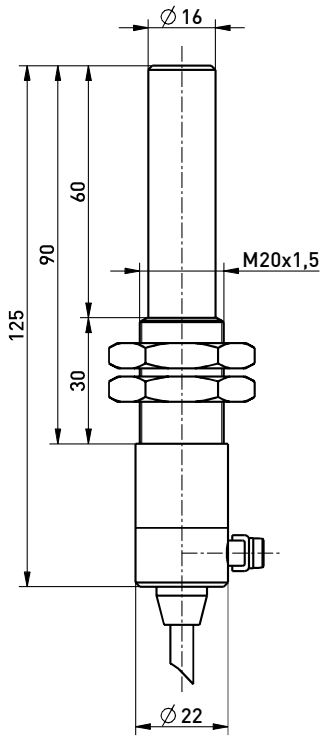
Features/Options

- Ex zone 1 and 21
- Stainless steel
- Including 2 mounting nuts
- 1 Reed contact
- Actuation from front
- Switching distance up to 30 mm depending on the actuating magnet
- With pre-wired cable
- N.B.: Please state required approvals for Russia and Brazil with your order!

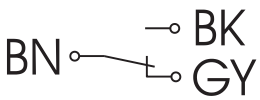
Notes

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

Dimensions



Contact diagram



Technical data

Standards	EN 60947-5-1; EN 60079-0; EN 60079-18
Enclosure	Stainless steel
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	10^6 ... 10^9 operations
Vibration resistance	10 ... 50 g
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 EAC Ex INMETRO
Weight	630 g

Errors and omissions excepted.

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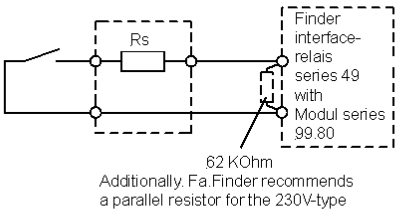
Directive for the protection of reed contacts

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

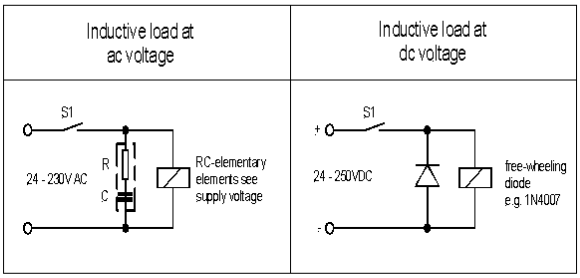
coil voltage	serial resistor Rs
24 VDC 24 VAC 230 VAC	27 Ohm 39 Ohm 330 Ohm / 0,6 W

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)

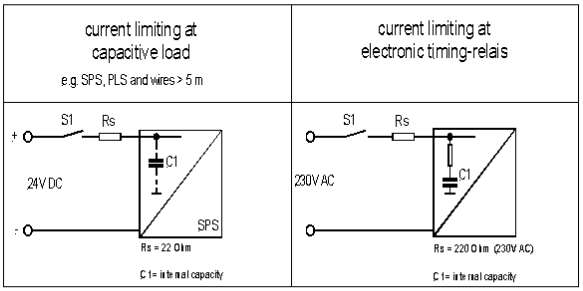


Additionally. Fa.Finder recommends a parallel resistor for the 230V-type

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)

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