

DESCRIPTION

These reed proximity switches operate when in the presence of magnetically conductive material. Instead of an actuating magnet, only a simple piece of iron is required to operate the sensor from the front or from above. The standard cable is UL listed and is round twin core 2 x 0.35 mm² (AWG22).



APPLICATIONS

- Industrial applications
- End travel sensing limit switch in pneumatic cylinders
- Position control
- Control functions in plant and utility vehicles
- Security applications
- Door and window control
- Opening recognition contact
- Fire protection doors

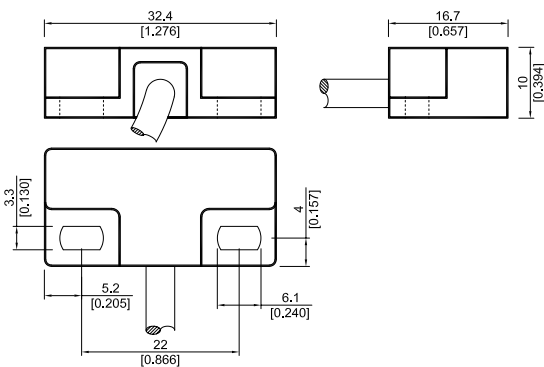
FEATURES

- Form A and B are available
- Other cables, connectors and colors available
- Activation from the front or from above
- Sabotage loop available

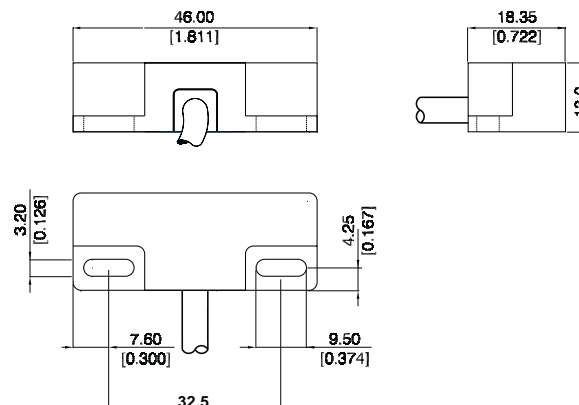
DIMENSIONS

All dimensions in mm [inch]

Series
MK02/0, MK02/1,
MK02/2, MK02/3



Series
MK02/5



TERMINATION

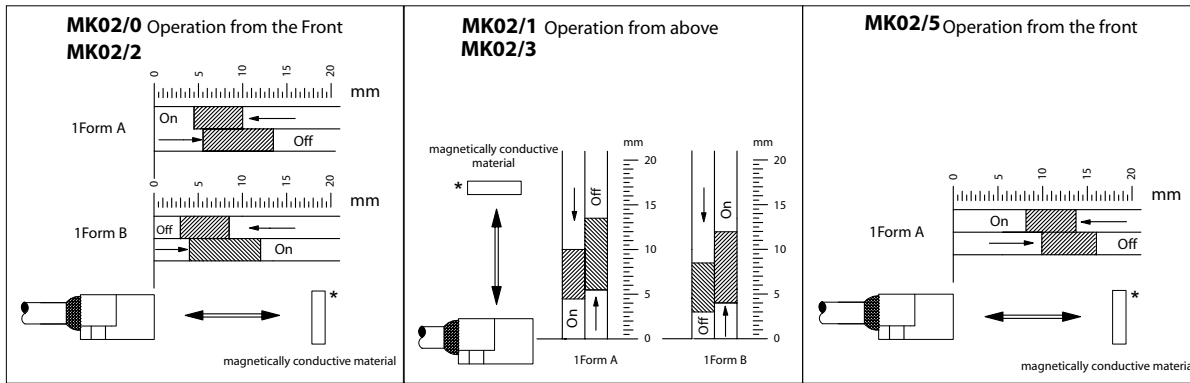
| | | |
|----------|--|---|
| W | | The cable cut length includes: 5 mm of wire stripped and tinned. |
|----------|--|---|

For wire and termination details please consult factory.

Ferromagnetic Metal Detection Sensors

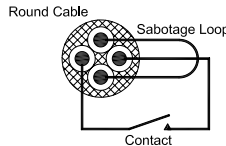
OPERATION EXAMPLE

For best operation it is recommended that you **DO NOT** mount these sensors on any ferromagnetic material **OR** use any ferromagnetic screws.



* Dimension (mm): 3 x 12 x 32

The standard cable is a 4-wire round - core 4 x 0.14 mm² (cable sheath and wires are white) forming a sabotage loop. See example of this loop to the right.



(Sabotage loop for MK02/2, MK02/3.)

ORDER INFORMATION

| Series | Contact Form | Switch Model | Cable Length (mm) | Termination | Sabotage Loop | Operation |
|----------------|--------------|--------------|-------------------|-------------|---------------|-----------|
| MKX/X - | XX | XX - | XXX | X | | |
| 02/0 | 1 A 1 B | 66 90 | 500* | W | No | Front |
| 02/1 | 1 A 1 B | 66 90 | | | No | Above |
| 02/2 | 1 A 1 B | 66 90 | | | Yes | Front |
| 02/3 | 1 A 1 B | 66 90 | | | Yes | Above |
| 02/5 | 1 A | 41 | | | No | Front |
| 02/6 | 1 A | 41 | | | Yes | Front |

* other cable lengths available.

Part Number Example

MK02/0 - 1A66 - 500 W

MK02/0 is the front operation series
1A is the contact form
66 is the switch model
500 is the cable length (mm)
W is the termination

CONTACT DATA

| All Data at 20° C | Switch Model → Contact Form → | Switch 41 Form A | | | Switch 66 Form A | | | Switch 90 Form B | | | Units |
|--|---|---------------------|------|------|---------------------|------|------|---------------------|------|------|-------|
| | | Min. | Typ. | Max. | Min. | Typ. | Max. | Min. | Typ. | Max. | |
| Switching Power | Any DC combination of V & A not to exceed their individual max.'s | | | 16 | | | 10 | | | 3 | W |
| Switching Voltage | DC or peak AC | | | 40 | | | 200 | | | 175 | V |
| Switching Current | DC or peak AC | | | 0.4 | | | 0.5 | | | 0.25 | A |
| Carry Current | DC or peak AC | | | 0.7 | | | 1.25 | | | 1.2 | A |
| Static Contact Resistance | w/ 0.5 V & 10 mA | | | 100 | | | 150 | | | 150 | mΩ |
| Dynamic Contact Resistance | Measured w/ 0.5 V & 50 mA , 1.5 ms after closure | | | 150 | | | 200 | | | 250 | mΩ |
| Insulation Resistance across Contacts | 100 volts applied | 10 ⁹ | | | 10 ^{10*} | | | 10 ⁹ | | | Ω |
| Breakdown Voltage across Contact | Voltage applied for 60 sec. min. | 150 | | | 225* | | | | | | VDC |
| Operate Time incl. Bounce | Measured w/ 100 % overdrive | | | 0.7 | | | 0.5 | | | 0.7 | ms |
| Release Time | Measured w/ no coil suppression | | | 0.05 | | | 0.1 | | | 1.5 | ms |
| Capacitance | at 10 kHz cross contact | | 0.3 | | | 0.2 | | | 1.0 | | pF |
| Environmental Data | | | | | | | | | | | |
| Shock Resistance | 1/2 sinus wave duration 11 ms | | | 50 | | | 30 | | | 50 | g |
| Vibration Resistance | From 10 - 2000 Hz | | | 20 | | | 10 | | | 20 | g |
| Ambient Temperature | 10°C/ minute max. allowable | -20 | | 85 | -20 | | 85 | -20 | | 85 | °C |
| Stock Temperature | 10°C/ minute max. allowable | -35 | | 85 | -35 | | 85 | -35 | | 85 | °C |
| Soldering Temperature | 5 sec. | | | 260 | | | 260 | | | 260 | °C |
| Please note: The indicated electrical data are maximum values and can vary downwards when using a more sensitive switch. * Insulation resistance of 10 ¹² and breakdown voltage of 480 VDC is available. | | | | | | | | | | | |