

### 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 mm<sup>2</sup> (AWG22).



### APPLICATIONS

### FEATURES

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

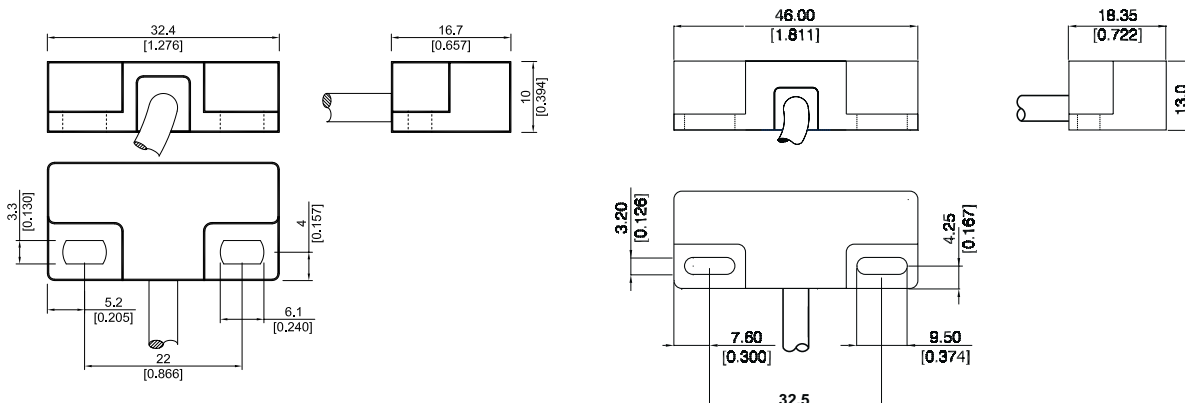
- Industrial applications
- End travel sensing limit switch in pneumatic cylinders
- Position control
- Control functions in plant and utility vehicles
- Security applications
- Door and window control
- Opening recognition contact
- Fire protection doors

### DIMENSIONS

All dimensions in mm [inch]

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

Series  
MK02/5



### TERMINATION

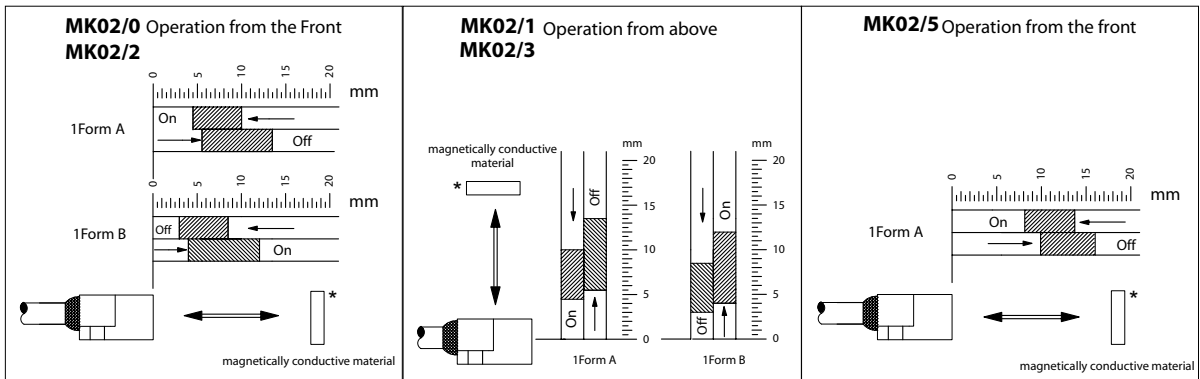
<b>W</b>		The cable cut length includes: 5 mm of wire stripped and tinned.
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For wire and termination details please consult factory.

## Ferromagnetic Metal Detection Sensors

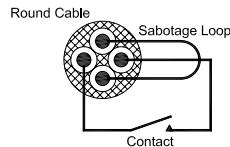
### OPERATION EXAMPLE

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 mm<sup>2</sup> (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
<b>MKX/X -</b>	<b>XX</b>	<b>XX -</b>	<b>XXX</b>	<b>X</b>		
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**

<b>All Data at 20° C</b>	<b>Switch Model → Contact Form →</b>	<b>Switch 41 Form A</b>			<b>Switch 66 Form A</b>			<b>Switch 90 Form B</b>			
<b>Contact Ratings</b>	<b>Conditions</b>	<b>Min.</b>	<b>Typ.</b>	<b>Max.</b>	<b>Min.</b>	<b>Typ.</b>	<b>Max.</b>	<b>Min.</b>	<b>Typ.</b>	<b>Max.</b>	<b>Units</b>
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 <sup>9</sup>			10 <sup>10*</sup>			10 <sup>9</sup>			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
<b>Environmental Data</b>											
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<sup>12</sup> and breakdown voltage of 480 VDC is available.