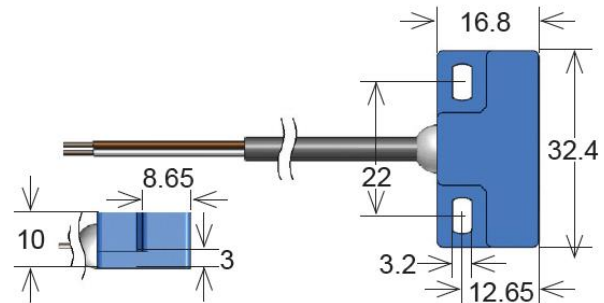


# MK02 Series Reed Sensors



- Features: Ferrous Metal Detection, Front or Above Operation, Choice of Cable Termination & Lengths
- Applications: Door & Window Control, Fire Protection Doors, Safety & Interlock Sensing & Others
- Markets: Appliance, Industrial, Security & Others

Part Description: **MK 02/0-0X00-000X**

Operation Series	Contact QTY	Contact Form	Switch Model	Cable Length (mm)	Termination
0, 1, 2, 3, 4	01	A, B, C	66, 90	200, 300, 500, 1000, 1500, 2000, 3000, 5000	w

Customer Options	Switch Model		Unit
Contact Data	66	90	
<b>Rated Power (max.)</b> Any DC combination of V&A not to exceed their individual max.'s	10	10	W
<b>Switching Voltage (max.)</b> DC or peak AC	180	175	V
<b>Switching Current (max.)</b> DC or peak AC	0.5	0.5	A
<b>Carry Current (max.)</b> DC or peak AC	1.25	1.0	A
<b>Contact Resistance (max.)</b> @ 0.5V & 50mA	150	150	mOhm
<b>Breakdown Voltage (min.)</b> According to EN60255-5	0.25	0.2	kVDC
<b>Operating Time (max.)</b> Incl. Bounce; Measured with w/ Nominal Voltage	0.7	0.7	ms
<b>Release Time (max.)</b> Measured with no Coil Excitation	0.05	1.5	ms
<b>Insulation Resistance (typ.)</b> Rh<45%, 100V Test Voltage	10 <sup>10</sup>	10 <sup>9</sup>	GOhm
<b>Capacitance (typ.)</b> @ 10kHz across open Switch	0.3	1.5	pF

## Series Datasheet – MK02 Reed Sensors

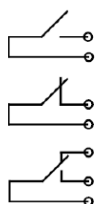
[www.standexmeder.com](http://www.standexmeder.com)

### Housing and Cable Specifications

Housing Material	PBT Glass Fibre Reinforced
Case Color	Blue
Sealing Compound	Polyurethan
Cable Typ	Round Cable
Cable Material	PVC
Cross Section (mm <sup>2</sup> )	4 x 0.14 / 2 x 0.25

Environmental Data		Unit
Shock Resistance (max.) 1/2 sine wave duration 11ms	50	g
Vibration Resistance (max.)	20	g
Operating Temperature Cable not moved	-30 to 80	°C
Operating Temperature Cable moved	-5 to 80	°C
Storage Temperature	-30 to 80	°C

### Glossary Contact Form

Form A	NO = Normally Open Contacts SPST = Single Pole Single Throw	
Form B	NC = Normally Closed Contacts SPST = Single Pole Single Throw	
Form C	Changeover SPDT = Single Pole Double Throw	



### MK02 Reed Sensor

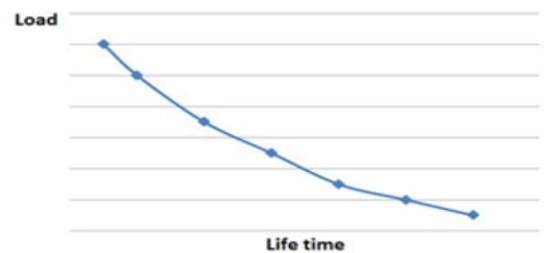


### Handling & Assembly Instructions

- Max torque of screw is 1Nm
- Cable bending-radius is diameter x 15
- Min. bending distance to housing is 5mm
- Drag mark out of the mounting area forbidden
- Decrease switching distance by mounting on iron
- Do not use magnetically inductive screws
- Series resistor recommended for > 5m cable length

### Life Test Data

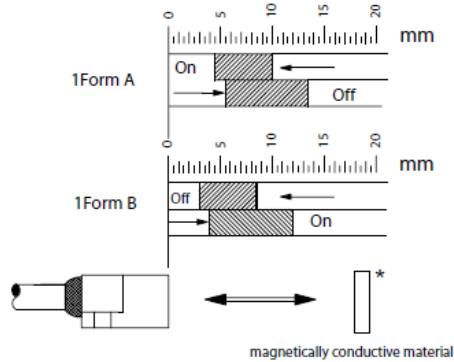
\*Load increase reduces life expectancy of Reed Switches



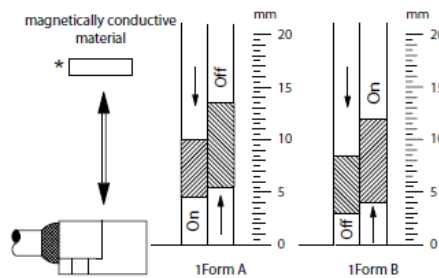
### Operation Series – Screw Flange Mount

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

#### MK02/0 Operation from the Front MK02/2

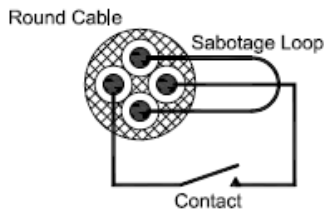


#### MK02/1 Operation from above MK02/3



\* 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