

## Cylindrical Reed Sensors



### DESCRIPTION

MK18 sensors are magnetically operated Reed proximity switches in a cylindrical module, fitted with interconnect cable. The sensor should be mounted on a fixed surface with the actuating magnet on the moving surface. Introduction or removal of the magnetic field determines the closing and opening of the Reed Switch.

### APPLICATIONS

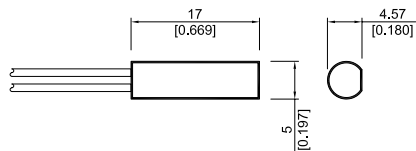
- **Position and limit switch**
- Pneumatic or hydraulic actuator position Indication and end travel limit switch
- **Door and window contacts**  
Security system applications
- **Level sensor**  
Use with magnetic floats for water level detection in coffee makers, washing machines or dishwashers

### FEATURES

- Flat side indicates maximum sensitivity
- Small size
- Other cables, connectors and colors available
- Three operate sensitivities available
- A choice of cable terminations and lengths are available

### DIMENSIONS

All dimensions in mm [inch]



**ORDER INFORMATION**

Series	Magnetic Sensitivity	Cable Length (mm)	Termination
<b>MK18 -</b>	<b>X -</b>	<b>XXX</b>	<b>X</b>
<b>Options</b>	B, C, D	100 *	W
* Other cable length available.			

**Part Number Example**

MK18 - C - 100 W

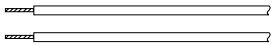
**C** is the magnetic sensitivity  
**100** is the cable length (mm)  
**W** is the termination

**MAGNETIC SENSITIVITY**

Sensitivity class	Pull In AT Range
B	10 - 15
C	15 - 20
D	20 - 25

**TERMINATION**

For wire and termination details please consult factory.

<b>W</b>		The cable cut length includes: 5 mm of wire stripped and tinned
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## Cylindrical Reed Sensors

### CONTACT DATA

All Data at 20° C	Contact Form →	Form A			
		Min.	Typ.	Max.	Units
Contact Ratings	Conditions				
Switching Power	Any DC combination of V & A not to exceed their individual max.'s			10	W
Switching Voltage	DC or peak AC			200	V
Switching Current	DC or peak AC			0.5	A
Carry Current	DC or peak AC			0.5	A
Static Contact Resistance	w/ 0.5 V & 10 mA			150	mΩ
Dynamic Contact Resistance	Measured w/ 0.5 V & 50 mA , 1.5 ms after closure			200	mΩ
Insulation Resistance across Contacts	100 volts applied	10 <sup>9</sup>			Ω
Breakdown Voltage across Contact	Voltage applied for 60 sec. min.	230			VDC
Operate Time incl. Bounce	Measured w/ 100 % overdrive			0.6	ms
Release Time	Measured w/ no coil suppression			0.1	ms
Capacitance	at 10 kHz cross contact		0.2		pF
<b>Contact Operation *</b>					
Must Operate Condition	Steady state field	10		25	AT
Must Release Condition	Steady state field	4		22	AT
<b>Environmental Data</b>					
Shock Resistance	1/2 sinus wave duration 11 ms			30	g
Vibration Resistance	From 10 - 2000 Hz			20	g
Ambient Temperature	10°C/ minute max. allowable	-20		70	°C
Stock Temperature	10°C/ minute max. allowable	-20		70	°C
Soldering Temperature	5 sec. dwell			260	°C
Please note: The indicated electrical data are maximum values and can vary downwards when using a more sensitive switch.					
* These ranges refer to the uncut / unmodified Reed Switches described in our Reed Switch section. Consult factory if more detail is required.					

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