

**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**

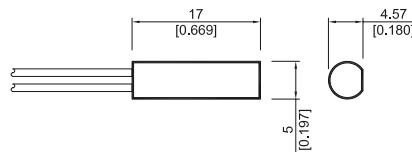
- **Position and limit switch**  
Pneumatic or hydraulic actuator position Indication and end travel limit switch
- **Door and window contacts**  
Security system applications
- **Level sensor**  
Use with magnetic floats for water level detection in coffee makers, washing machines or dishwashers

**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
MK18 -	X -	XXX	X
Options	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)

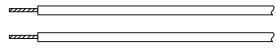
W is the termination

## 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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## CONTACT DATA

All Data at 20° C		Contact Form →	Form A			
Contact Ratings		Conditions	Min.	Typ.	Max.	Units
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
Operation 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
Contact Operation *						
Must Operate Condition	Steady state field	10		25	AT	
Must Release Condition	Steady state field	4		22	AT	
Environmental Data						
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.						