DESCRIPTION

MK20/1 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.

FEATURES

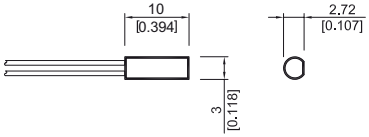
- Flat side indicates maximum sensitivity
- Small size
- Other cables, connectors and colors available
- Three operate sensitivities available
- A choice of cable terminations and lengths are available

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

DIMENSIONS

All dimensions in mm [inch]



MK20/1

Cylindrical
Reed Sensors

ORDER INFORMATION

Series	Magnetic Sensitivity	Cable Length (mm)	Termination
MK20/1 -	**X -**	**XXX**	**X**
Options	B, C, D	100 *	W
* Other cable length available.			

Part Number Example

MK20/1 - C - 100 W

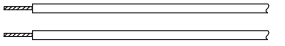
C is the magnetic sensitivity
100 is the cable length (mm)
W is the termination

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.

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

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			5	W
Switching Voltage	DC or peak AC			175	V
Switching Current	DC or peak AC			0.25	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			300	mΩ
Insulation Resistance across Contacts	100 volts applied	10^9			Ω
Breakdown Voltage across Contact	Voltage applied for 60 sec. min.	200			VDC
Operation Time incl. Bounce	Measured w/ 100 % overdrive			0.4	ms
Release Time	Measured w/ no coil suppression			0.1	ms
Capacitance	at 10 kHz cross contact		0.3		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			50	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.