Reed Sensors

DESCRIPTION

MK20 (also MK20/1) sensors are magnetically operated Reed proximity switches in a cylindrical module, fitted with interconnect cable. 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 [inches]



Cylindrical Reed Sensors

ORDER INFORMATION

Part Number Example

MK20 - C - 100 W

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

Series	Magnetic Sensitivity	Cable Length (mm)	Termination	
MK20 - MK20/1 -	X -	xxx	х	
Options	B, C, D	100 *	W	

^{*} Other cable length available.

MAGNETIC SENSITIVITY

Sensitivity class	Pull In At Range		
В	10 - 15		
С	15 - 20		
D	20 - 25		

TERMINATION

For wire and termination details please consult factory.

Reed Sensors

CONTACT DATA

All Data at 20° C	Contact Form →		Form A		
Contact Ratings	Conditions	Min.	Тур.	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	Α
Carry Current	DC or peak AC			0.5	Α
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.