MK12 Series

MEDER electronic

Reed Sensors with Screw Fastening Mounting Holes



APPLICATIONS

- Position and limit switch
 Pneumatic or hydraulic actuator position
- End motion detection for linear drive Indication and end travel limit switch
- Machine industry
 End motion detection and door/flap control

DESCRIPTION

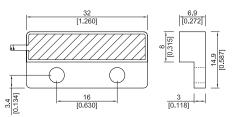
MK12 sensors are magnetically operated Reed Sensors designed for screw mounting. The larger casing permits the use of higher rated switches. The sensor should be mounted on a fixed surface with the actuating magnet on the moving surface. Introduction or removal of the magnetic field determines the closing and opening of the Reed Switch.

FEATURES

- Form A, B, and C available
- · High power switches available
- · Other cables, connectors and colors available
- Various case sizes available
- · Five operate sensitivities available
- A choice of cable terminations and lengths are available

DIMENSIONS

All dimensions in mm [inches]



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Series	Contact Form	Switch Model	Magnetic Sensitivity	Cable length (mm)	Termination	
MK12 -	XX	хх	X -	ххх	x	
Options	1 Form A	66	B, C, D, E			
		84		500 *	W	
	1 Form B 1 Form C	90	C, D, E			
* Other cable lengths available						

ORDER INFORMATION

Part Number Example

MK12 - 1A66 C - 500 W

1A is the contact form66 is the switch modelC is the magnetic sensitivity500 is the cable length (mm)W is the termination

MAGNETIC SENSITIVITY

Sensitivity Class	Pull-in At Range
В	10 - 15
С	15 - 20
D	20 - 25
E	25 - 30

TERMINATION

For wire and termination details please consult factory. Form C version requires 3 conductors.

W

2000C

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

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CONTACT DATA

All Data at 20° C	Switch Model \rightarrow Contact Form \rightarrow	_	vitch Form /		Switch 84 Form A			
Contact Ratings	Conditions	Min.	Тур.	Max.	Min.	Тур.	Max.	Units
Switching Power	Any DC combination of V & A not to exceed their individual max.'s			10			10	w
Switching Voltage	DC or peak AC			200			400	V
Switching Current	DC or peak AC			0.5			0.5	А
Carry Current	DC or peak AC			1.25			1.0	А
Static Contact Resistance	w/ 0.5 V & 10mA			150			150	mΩ
Dynamic Contact Resistance	Measured w/ 0.5 V & 50 mA , 1.5 ms after closure			200			200	mΩ
Insulation Resistance across Contacts	100 volts applied	10 ¹⁰ *			1011			Ω
Breakdown Voltage across Contact	Voltage applied for 60 sec. min.	225 *			700			VDC
Operation Time incl. Bounce	Measured w/ 100 % overdrive			0.5			2.0	ms
Release Time	Measured w/ no coil suppression			0.1			0.1	ms
Capacitance	at 10 kHz cross contact		0.2			0.7		pF
Contact Operation **								
Must Operate Condition	Steady state field	10		30	15		30	AT
Must Release Condition	Steady state field	4		27	6		27	AT
Environmental Data								
Shock Resistance	1/2 sinus wave duration 11 ms			50			50	g
Vibration Resistance	From 10 - 2000 Hz			20			20	g
Ambient Temperature	10°C/ minute max. allowable	-20		85	-20		85	°C
Stock Temperature	10°C/ minute max. allowable	-35		85	-35		85	°C
Soldering Temperature	5 sec. dwell			260			260	°C

Please note: The indicated electrical data are maximum values and can vary downwards when using a more sensitive switch.

^{*} Insulation resistance of 10¹² and breakdown voltage of 480 VDC is available.

** 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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CONTACT DATA

All Data at 20° C	Switch Model \rightarrow Contact Form \rightarrow						
Contact Ratings	Conditions	Min.	Тур.	Max.	Units		
Switching Power	Any DC combination of V & A not to exceed their individual max.'s			3	w		
Switching Voltage	DC or peak AC			175	V		
Switching Current	DC or peak AC			0.25	А		
Carry Current	DC or peak AC			1.2	А		
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			250	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			0.7	ms		
Release Time	Measured w/ no coil suppression			1.5	ms		
Capacitance	at 10 kHz cross contact		1.0		pF		
Contact Operation *							
Must Operate Condition	Steady state field	10		35	AT		
Must Release Condition	Steady state field	4		30	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		85	°C		
Stock Temperature	10°C/ minute max. allowable	-35		85	°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							

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