

Reed Sensor with Screw Thread Enclosure



DESCRIPTION

MK11 sensors are magnetically operated Reed Sensors with screw thread enclosure supplied 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

- Piston end travel and position detection
- End motion detection for linear drives
- Machine industry

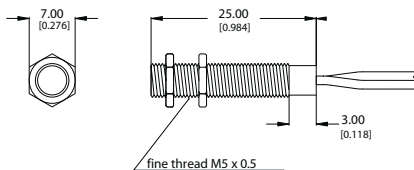
FEATURES

- Stainless steel and plastics designs with thread for space adjustment
- 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

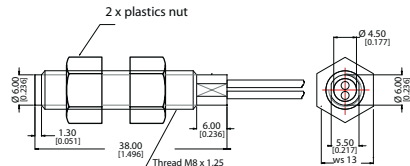
DIMENSIONS

All dimensions in mm [inch]

MK11 (Stainless Steel)



MK11/M8 (Plastics)



ORDER INFORMATION

Part Number Example

MK11 - 1A66 C - 500 W
 MK11/M8 - 1A66 C - 500 W

66 is the switch model

C is the magnetic sensitivity

500 is the cable length (mm)

W is the termination

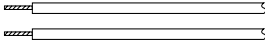
Series	Contact-form	Switch-model	Magnetic Sensitivity	Cable Length (mm)	Termination
MK11 -	1A	XX	X	XXX	X
Options	1A	66	B, C, D, E	500*	W
		84**	B, C, D, E		
	1C	90**	C, D, E		
* Other cable lengths available. ** Only for MK11/M8 (plastics).					

MAGNETIC SENSITIVITY

Sensitivity Class	Pull In At Range
B	10 - 15
C	15 - 20
D	20 - 25
E	25 - 30

TERMINATION

For wire and termination details please consult factory.

W		The cable cut length includes: 5 mm of wire stripped and tinned.
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CONTACT DATA (Stainless Steel + Plastics)

All Data at 20° C	Switch Model → Contact Form →	Switch 66 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			1.25	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 ¹⁰ *			Ω
Breakdown Voltage across Contact	Voltage applied for 60 sec. min.	225*			VDC
Operate Time incl. Bounce	Measured w/ 100 % overdrive			0.5	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		30	AT
Must Release condition	Steady state field	4		27	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.			260	°C
Please note: The indicated electrical data are maximum values and can vary downwards when using a more sensitive switch.					
* Insulation resistance of 10 ¹² 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.					

CONTACT DATA (only Plastics)

All Data at 20° C	Switch Model → Contact Form →	Switch 84 Form A			Switch 90 Form A			
Contact Ratings	Conditions	Min.	Typ.	Max.	Min.	Typ.	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			400			175	V
Switching Current	DC or peak AC			0.5			0.5	A
Carry Current	DC or peak AC			1.5			1.0	A
Static Contact Resistance	w/ 0.5 V & 10 mA			150			150	mΩ
Dynamic Contact Resistance	Measured w/ 0.5 V & 50 mA , 1.5 ms after closure							mΩ
Insulation Resistance across Contacts	100 volts applied	10 ¹²			10 ⁹			Ω
Breakdown Voltage across Contact	Voltage applied for 60 sec. min.	200			200			VDC
Operate Time incl. Bounce	Measured w/ 100 % overdrive			0.5			0.7	ms
Release Time	Measured w/ no coil suppression			0.1			1.5	ms
Capacitance	at 10 kHz cross contact		0.3			1.0		pF
Contact Operation **								
Must Operate Condition	Steady state field	15		30	15		30	AT
Must Release condition	Steady state field	6		27	6		27	AT
Environmental Data								
Shock Resistance	1/2 sinus wave duration 11 ms			50			30	g
Vibration Resistance	From 10 - 2000 Hz			20			20	g
Ambient Temperature	10°C/ minute max. allowable	-20		105	-20		70	°C
Stock Temperature	10°C/ minute max. allowable	-35		105	-35		70	°C
Soldering Temperature	5 sec.			250			260	°C
Please note: The indicated electrical data are maximum values and can vary downwards when using a more sensitive switch. * Insulation resistance of 10 ¹² 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.								