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.



APPLICATIONS

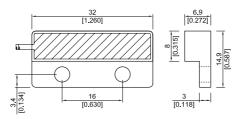
- Position and limit switch
 Pneumatic or hydraulic actuator position
- End motion detection for linear drive Indication and end travel limit switch
- Machine industry
 End motion detection and door/flap control

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]



ORDER INFORMATION

SERIES	CONTACT	SWITCH MODEL	MAGNETIC SENSITIVITY	CABLE LENGTH (mm)	TERMINATION		
MK12 -	хх	хх	х -	ххх	х		
OPTIONS	1 Form A	66	B, C, D, E				
		81	А				
		84		500 *	W, X, Y		
	1 Form B 1 Form C	90	C, D, E				
* Other cable lengths available.							

Part Number Example

MK12 - 1A66 C - 500 W

1A is the contact form 66 is the switch model C is the magnetic sensitivity 500 is the cable length (mm) W is the termination

MAGNETIC SENSITIVITY

SENSITIVITY CLASS	PULL IN AT RANGE
А	5 - 10
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		The cable cut length includes: 5mm of wire stripped and tinned
X	======================================	The cable cut length includes: individual crimped terminals
Υ		The cable cut length includes: individual spade terminals

CONTACT DATA

All data at 20 °C	Switch Model> Contact Form>	_	witch Form /		Switch 81 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			5	W
Switching Voltage	DC or peak AC			200			90	V
Switching Current	DC or peak AC			0.5			0.5	Α
Carry Current	DC or peak AC			1.25			1.0	Α
Static Contact Resistance	w/ 0.5V & 10mA			150			200	mΩ
Dynamic Contact Resistance	Measured w/ 0.5V & 50mA 1.5 ms after closure			200			200	mΩ
Insulation Resistance across Contacts	100 Volts applied	1010 *			10 ⁹			Ω
Breakdown Voltage across Contacts	Voltage applied for 60 sec. min.	225 *			100			VDC
Operate Time, incl. Bounce	Measured w/ 100% overdrive			0.5			0.5	ms
Release Time	Measured w/ no coil suppression			0.1			0.1	ms
Capacitance	@ 10kHz across contact		0.2			0.2		pF
Contact Operation **								
Must Operate Condition	Steady state field	10		30	5		10	AT
Must Release Condition	Steady state field	4		27	2		9	AT
Environmental Data								
Shock Resistance	1/2 sine wave duration 11ms			50			30	g
Vibration Resistance	From 10 - 2000 Hz			20			10	g
Ambient Temperature	10 °C/ minute max. allowable	-20		85	-20		85	٥C
Storage Temperature	10 °C/ minute max. allowable	-35		85	-35		85	°C
Soldering Temperature	5 sec. dwell			260			260	٥C

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.

CONTACT DATA

All data at 20 °C	Switch Model> Contact Form>	Switch 84 Form A		Switch 90 Form B / C				
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			3	W
Switching Voltage	DC or peak AC			400			175	V
Switching Current	DC or peak AC			0.5			0.25	А
Carry Current	DC or peak AC			1.0			1.2	Α
Static Contact Resistance	w/ 0.5V & 10mA			150			150	mΩ
Dynamic Contact Resistance	Measured w/ 0.5V & 50mA 1.5 ms after closure			200			250	mΩ
Insulation Resistance across Contacts	100 Volts applied	1011			10 ⁹			Ω
Breakdown Voltage across Contacts	Voltage applied for 60 sec. min.	700			200			VDC
Operate Time, incl. Bounce	Measured w/ 100% overdrive			2.0			0.7	ms
Reset Time	Measured w/ no coil suppression			0.1			1.5	ms
Capacitance	@ 10kHz across contact		0.7			1.0		pF
Contact Operation **								
Must Operate Condition	Steady state field	15		30	10		35	AT
Must Reset Condition	Steady state field	6		27	4		30	AT
Environmental Data								
Shock Resistance	1/2 sine wave duration 11ms			50			50	g
Vibration Resistance	From 10 - 2000 Hz			20			20	g
Ambient Temperature	10 °C/ minute max. allowable	-20		85	-20		85	°C
Storage 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.

** These ranges refer to the uncut / unmodified Reed Switches described in our Reed Switch section. Consult factory if more detail is required.