

DESCRIPTION

MK6 sensors are magnetically operated Reed proximity switches for direct PCB mounting. 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. (2.54 mm PCB pin spacing, available with different distances)



APPLICATIONS

- **Telecommunications**
Telephone hook switch, keyboard applications
- **Domestic appliances**
Door switch for washing machines, dishwashers, microwave ovens, baking ovens, refrigerators
- **Limit switch for low-power signals**
Garage door controls, lever hoists, conveyors
- **Lifts / elevators**
Position indicators

FEATURES

- Form A, B, C and E (Latching) available
- High power switches available
- Various case sizes available
- Five operate sensitivities available

ORDER INFORMATION

SERIES	PACKAGING SIZE	MAGNETIC SENSITIVITY
MK6 -	X -	X
OPTIONS	4	B, C, D, E
	5	B, C
	6	A, B, C, D, E
	7	A, B, C, D, E
	8 (Form A)	A, B, C, D, E
	8 (Form C)	H, I, K

SERIES	CONTACT FORM
MK6 - 10 -	X *
OPTIONS	B
	E
* See footnote on following page.	

MAGNETIC SENSITIVITY

SENSITIVITY CLASS	PULL IN AT RANGE
A	5 - 10
B	10 - 15
C, H	15 - 20
D, I	20 - 25
E, K	25 - 30

Part Number Example

MK6 - 4 - C

4 is the packaging size
C is the magnetic sensitivity

Part Number Example

MK6 - 10 - E

E selects the latching option

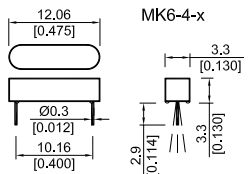
MK6 Series

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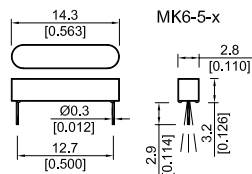
Reed Sensors for
PCB Mounting

DIMENSIONS

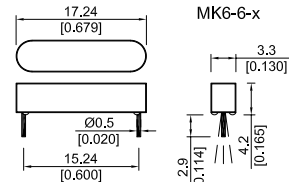
All dimensions in mm [inches]



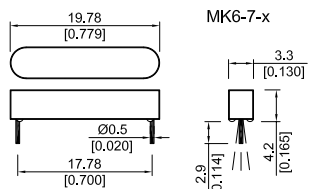
Angle of pins may deviate $\pm 7.5^\circ$



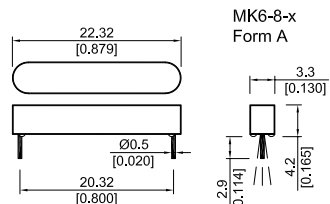
Angle of pins may deviate $\pm 7.5^\circ$



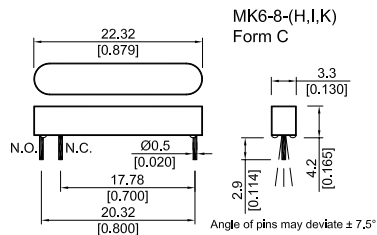
Angle of pins may deviate $\pm 7.5^\circ$



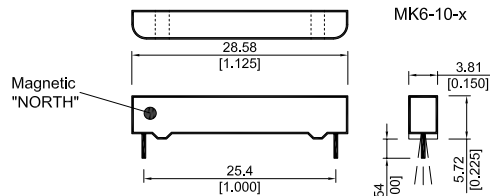
Angle of pins may deviate $\pm 7.5^\circ$



Angle of pins may deviate $\pm 7.5^\circ$



Angle of pins may deviate $\pm 7.5^\circ$



Angle of pins may deviate $\pm 7.5^\circ$

* **MK6-10-E** is a magnetic latching sensor which is opened or closed by a passing magnet and remains in that state until a magnet of opposite polarity or direction passes by again. The E refers to a latching sensor and does not represent the magnetic sensitivity.

MK6-10-B is a normally closed sensor. The B refers to a latching sensor and does not represent the magnetic sensitivity.

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CONTACT DATA

All data at 20 °C	Switch Model --> Contact Form --> Packaging styles -->	Contact 71 Form A, B, E 6, 7, 8, 10			Contact 80 Form A 4			
Contact Ratings	Conditions	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Contact Rating	Any DC combination of V & A not to exceed their individual max.'s			10			10	W
Switching Voltage	DC or peak AC			200			170	V
Switching Current	DC or peak AC			0.5			0.5	A
Carry Current	DC or peak AC			1.25			0.5	A
Static Contact Resistance	w/ 0.5V & 10mA			150			200	mΩ
Dynamic Contact Resistance	Measured w/ 0.5V & 50mA 1.5 ms after closure			200			250	mΩ
Insulation Resistance across Contacts	100 Volts applied	10 ¹⁰ *			10 ⁹			Ω
Breakdown Voltage	Voltage applied for 60 sec. min.	225 *			210			VDC
Operate Time, incl. Bounce	Measured w/ 100% overdrive			0.5			0.6	ms
Reset 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	10		30	AT
Must Reset Condition	Steady state field	4		27	4		27	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.
 * 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.

Reed Sensors for
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CONTACT DATA

All data 20 °C	Switch Model --> Contact Form --> Packaging styles -->	Contact 81 * Form A 6, 7, 8			Contact 87 Form A 5			Contact 90 Form C 8			Units
		Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	
Contact Ratings	Conditions										
Contact Rating	Any DC combination of V & A not to exceed their individual max.s			5			10			3	W
Switching Voltage	DC or peak AC			90			200			175	V
Switching Current	DC or peak AC			0.5			0.5			0.25	A
Carry Current	DC or peak AC			1.0			0.5			1.2	A
Static Contact Resistance	w/ 0.5V & 10mA			200			150			150	mΩ
Dynamic Contact Resistance	Measured w/ 0.5V & 50mA 1.5 ms after closure			200			200			250	mΩ
Insulation Resistance across Contacts	100 Volts applied	10 ⁹			10 ⁹			10 ⁹			Ω
Breakdown Voltage across Contacts	Voltage applied for 60 sec. min.	100			230			200			VDC
Operate Time, incl. Bounce	Measured w/ 100% overdrive			0.5			0.6			0.7	ms
Reset Time	Measured w/ no coil suppression			0.1			0.1			1.5	ms
Capacitance	@ 10kHz across contact		0.2			0.2			1.0		pF
Contact Operation **											
Must Operate Condition	Steady state field	5		10	10		20	15		30	AT
Must Reset Condition	Steady state field	2		9	4		18	6		27	AT
Environmental Data											
Shock Resistance	1/2 sine wave duration 11ms			30			50			50	g
Vibration Resistance	From 10 - 2000 Hz			10			20			20	g
Ambient Temperature	10 °C/ minute max. allowable	-20		85	-20		85	-20		85	°C
Storage Temperature	10 °C/ minute max. allowable	-35		85	-35		85	-35		85	°C
Soldering Temperature	5 sec. dwell			260			260			260	°C
<p>Please note: The indicated electrical data are maximum values and can vary downwards when using a more sensitive switch. * Switch model 81 is used for sensitivity range A only. ** These ranges refer to the uncut / unmodified Reed Switches described in our Reed Switch section. Consult factory if more detail is required.</p>											

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