

DESCRIPTION

MK7 sensors are magnetically operated Reed proximity switches in a cylindrical form with an 8 mm x 0.75 thread and connecting cable or coupler. The sensor can be screwed directly onto a fixed surface with the actuating magnet on the moving surface. The MK7 series is compatible with several inductive and magnetic proximity sensors.



APPLICATIONS

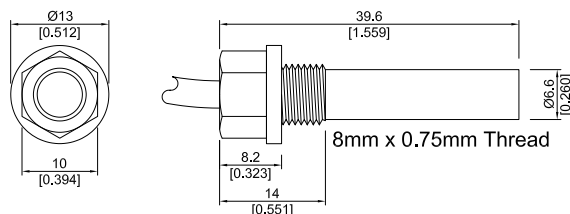
- **Position and limit switch**
Pneumatic or hydraulic actuator position
Indication and end travel limit switch
- **Door and window contacts**
Security system applications
- **Level sensor**
Use with magnetic floats for water level
detection in coffee makers, washing machines
or dishwashers

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 switch terminations and cable lengths are available

DIMENSIONS

All dimensions in mm [inches]



MK7 Series

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Cylindrical Reed Sensors
with M8 Thread

ORDER INFORMATION

SERIES	CONTACT FORM	SWITCH MODEL	MAGNETIC SENSITIVITY	CABLE LENGTH (mm)	TERMINATION
MK7 -	XX	XX	X -	XXX	X
OPTIONS	1 Form A	71	B, C, D, E	500 *	W, X, Y
		81	A		
		51	C, D, E		
	1 Form B 1 Form C	90			
* Other cable lengths available.					

Part Number Example

MK7 - 1A71 C - 500 W

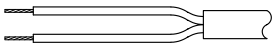
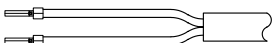
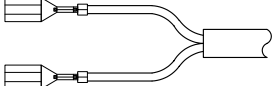
1A is the contact form
71 is the switch model
C is the magnetic sensitivity
500 is the cable length (mm)
W is the termination

MAGNETIC SENSITIVITY

SENSITIVITY CLASS	PULL IN AT RANGE
A	5 - 10
B	10 - 15
C	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: 30 mm of seperated wire with 5mm of wire stripped and tinned
X		The cable cut length includes: 30 mm of seperated wire with individual crimped terminals
Y		The cable cut length includes: 30 mm of seperated wire with individual spade terminals

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CONTACT DATA

All data at 20 °C	Switch Model --> Contact Form -->	Contact 51 Form A			Contact 71 Form A			
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			12			10	W
Switching Voltage	DC or peak AC			250			200	V
Switching Current	DC or peak AC			0.5			0.5	A
Carry Current	DC or peak AC			1.5			1.25	A
Static Contact Resistance	w/ 0.5V & 10mA			150			150	mΩ
Dynamic Contact Resistance	Measured w/ 0.5V & 50mA 1.5 ms after closure			200			200	mΩ
Insulation Resistance across Contacts	100 Volts applied	10 ¹¹			10 ¹⁰ *			Ω
Breakdown Voltage across Contacts	Voltage applied for 60 sec. min.	350			225 *			VDC
Operate Time, incl. Bounce	Measured w/ 100% overdrive			1.0			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	15		30	10		30	AT
Must Release Condition	Steady state field	6		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 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.								

MK7 Series

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Cylindrical Reed Sensors
with M8 Thread

CONTACT DATA

All data at 20 °C	Switch Model --> Contact Form -->	Contact 81 Form A			Contact 90 Form B / C			
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			5			3	W
Switching Voltage	DC or peak AC			90			175	V
Switching Current	DC or peak AC			0.5			0.25	A
Carry Current	DC or peak AC			1.0			1.2	A
Static Contact Resistance	w/ 0.5V & 10mA			200			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	10 ⁹			10 ⁹			Ω
Breakdown Voltage across Contacts	Voltage applied for 60 sec. min.	100			200			VDC
Operate Time, incl. Bounce	Measured w/ 100% overdrive			0.5			0.7	ms
Reset Time	Measured w/ no coil suppression			0.1			1.5	ms
Capacitance	@ 10kHz across contact		0.2			1.0		pF
Contact Operation **								
Must Operate Condition	Steady state field	5		10	15		30	AT
Must Reset Condition	Steady state field	2		9	6		27	AT
Environmental Data								
Shock Resistance	1/2 sine wave duration 11ms			30			50	g
Vibration Resistance	From 10 - 2000 Hz			10			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.								

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