



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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

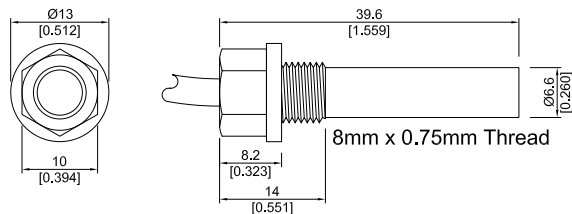
- **Position and limit switch**
Pneumatic or hydraulic actuator position
Indication and end travel limit switch
- **Door and window contacts**
Security system applications
- **Level sensor**
Use with magnetic floats for water level
detection in coffee makers, washing machines
or dishwashers

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

MEDER electronic

**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		
	90				
1 Form B 1 Form C					
* Other cable lengths available.					

Part Number Example

MK7 - 1A71 C - 500 W

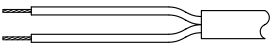
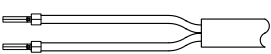
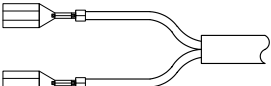
1A is the contact form
71 is the switch model
C is the magnetic sensitivity
500 is the cable length (mm)
W is the termination

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

www.meder.com

Germany # ++49-(0)7733-94870, USA # 800-870-5385

CONTACT DATA

All data at 20 °C	Switch Model --> Contact Form -->	Contact 51 Form A			Contact 71 Form A			Units
		Min.	Typ.	Max.	Min.	Typ.	Max.	
Contact Ratings	Conditions							
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.								

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			Units
		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			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.								