Cylindrical Reed Sensors with M8 Thread



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

DESCRIPTION

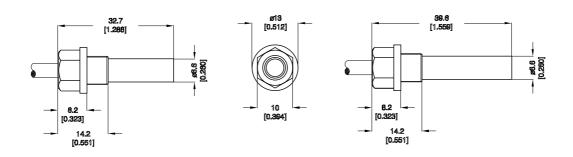
MK7 sensors are magnetically operated Reed proximity switches in a cylindrical form with an 8 mm x 0.75 thread and connecting cable or coupler. The sensor can be screwed directly onto a fixed surface with the actuating magnet on the moving surface. The widespread termination "T" or "U" makes the MK7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

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]



Cylindrical Reed Sensors with M8 Thread

ORDER INFORMATION

Part Number Example

MK7 - 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

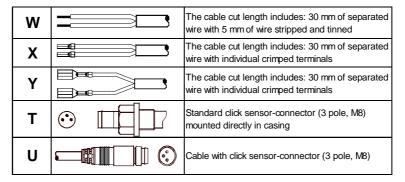
SERIES	CONTACT FORM	SWITCH MODEL	MAGNETIC SENSITIVITY	CABLE LENGTH (mm)	TERMINATION	
MK7 - MK7/1 -	xx	XX	X -	xxx	X	
Optionen	1 Form A	66	B, C, D, E		W, X, Y, T, U	
		81	А	F00*		
		51**	0.5.5	500*		
	1 Form B 1 Form C	90	C, D, E			

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.



^{**} Not available in combination with MK7/1 serie.

Cylindrical Reed Sensors with M8 Thread

CONTACT DATA

All data at 20° C	Switch Model> Contact Form>	Switch 51 Form A		Switch 66 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.			12			10	w
Switching Voltage	DC oder peak AC			250			200	V
Switching Current	DC oder peak AC			0.5			0.5	Α
Carry Current	DC oder peak AC			1.5			1.25	А
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 cloure			200			200	mΩ
Insulation Resistance across Contacts	100 Volt applied	10 ¹¹			10 ¹⁰ *			Ω
Breakdown Voltage across Contacts	Voltage applied for 60 sec	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	@ 10 kHz across contact		0.2			0.2		pF
Contact Operation **								
Must Operate Condition	Steady state field	15		30	10		30	AT
Must Release Conditon	Steady state field	6		27	4		27	AT
Environmental Data								
Shock Resistance	½ sine wave duration 11 ms			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 very 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 sectio. Consult factory if more

detail is required.

Cylindrical Reed Sensors with M8 Thread

CONTACT DATA

All data at 20 °C	Switch Model> Contact Form>	Switch 81 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			5			3	W
Switching Voltage	DC or peak AC			90			175	٧
Switching Current	DC or peak AC			0.5			0.25	А
Carry Current	DC or peak AC			1.0			1.2	А
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.