# Reed Sensors for Screw Fastening



### **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**

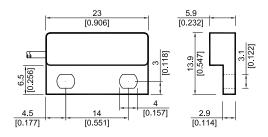
MK04 sensors are magnetically operated Reed proximity switches designed for screw mounting. The sensor should be mounted on a fixed surface with the actuating magnet on the moving surface. Introduction or removal of the magnetic field determines the closing and opening of the Reed Switch.

#### **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
- · High voltage versions upon request

### **DIMENSIONS**

All dimensions in mm [inch]



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## **ORDER INFORMATION**

#### **Part Number Example**

MK04 - 1A66 C - 500 W

1A is the contact form66 is the switch modelC is the magnetic sensitivity500 is the cable length (mm)W is the termination

Series	Contact form	Switch- model	Magnetic Sensitivity	Cable Length (mm)	Termina- tion	
MK4 -	ХХ	ХХ	х-	ххх	x	
Options	1 Form A	66	B, C, D, E		w	
	1 Form B 1 Form C	90		500*		
* Other cable length available.						

# **MAGNETIC SENSITIVITY**

Sensitivity Class	Pull In AT Range
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:				
	<u> </u>	5 mm of wire stripped and tinned				

## **Reed Sensors** for Screw Fastening

## **CONTACT DATA**

All Data at 20° C	Switch Model → Contact Form →	_	Switch 66 Form A		
Contact Ratings	Conditions	Min.	Тур.	Max.	Units
Switching Power	Any DC combination of V & A not to exceed their individual max.'s			10	w
Switching Voltage	DC or peak AC			200	V
Switching Current	DC or peak AC			0.5	Α
Carry Current	DC or peak AC			1.25	Α
Static Contact Resistance	w/ 0.5 V & 10mA			150	mΩ
Dynamic Contact Resistance	Measured w/ 0.5 V & 50mA , 1.5 ms after closure			200	mΩ
Insulation Resistance across Contacts	100 volts applied	10 <sup>10</sup>			Ω
Breakdown Voltage across Contact	Voltage applied for 60 sec. min.	225 *			VDC
Operate Time incl. Bounce	Measured w/ 100 % overdrive			0.5	ms
Release Time	Measured w/ no coil suppression			0.1	ms
Capacitance	at 10 kHz cross contact		0.2		pF
Contact Operation **					
Must Operate Condition	Steady state field	10		60	AT
Must Release Condition	Steady state field	4		54	AT
Environmental Data					
Shock Resistance	1/2 sinus wave duration 11 ms			50	g
Vibration Resistance	From 10 - 2000 Hz			20	g
Ambient Temperature	10°C/ minute max. allowable	-20		85	∘C
Stock Temperature	10°C/ minute max. allowable	-35		85	∘C
Soldering Temperature	5 sec.			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<sup>12</sup> 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 Screw Fastening

## **CONTACT DATA**

All Data at 20° C	Switch Model → Contact Form →	Switch 90 Form B / C			
Contact Ratings	Conditions	Min.	Тур.	Max.	Units
Switching Power	Any DC combination of V & A not to exceed their individual max.'s			20	w
Switching Voltage	DC or peak AC			175	V
Switching Current	DC or peak AC			0.5	Α
Carry Current	DC or peak AC			1.0	Α
Static Contact Resistance	w/ 0.5 V & 10mA			150	mΩ
Dynamic Contact Resistance	Measured w/ 0.5 V & 50mA , 1.5 ms after closure			250	mΩ
Insulation Resistance across Contacts	100 volts applied	10º			Ω
Breakdown Voltage across Contact	Voltage applied for 60 sec. min.	200			VDC
Operate Time incl. Bounce	Measured w/ 100 % overdrive			0.7	ms
Release Time	Measured w/ no coil suppression			1.5	ms
Capacitance	at 10 kHz cross contact		1.0		pF
Contact Operation **					
Must Operate Condition	Steady state field	15		40	AT
Must Release Condition	Steady state field				AT
Environmental Data					
Shock Resistance	1/2 sinus wave duration 11 ms			50	g
Vibration Resistance	From 10 - 2000 Hz			20	g
Ambient Temperature	10°C/ minute max. allowable	-20		85	°C
Stock Temperature	10°C/ minute max. allowable	-35		85	°C
Soldering Temperature	5 sec.			260	°C

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