

## MEDER electronic

## MK21 Series

Reed Sensors with Mounting  
Holes for Screw Fastening

### DESCRIPTION

MK21 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. Leads are teflon coated. Designed for extreme environment. High temperatures, 150 °C Impervious to water, fuels, oils, inks and most acids.



### APPLICATIONS

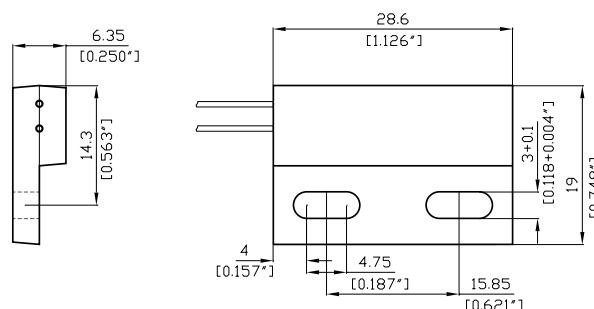
- **Position and limit switch**  
Pneumatic or hydraulic actuator position
- **End motion detection for linear drive**  
Indication and end travel limit switch
- **Machine industry**  
End motion detection and door/flap control

### FEATURES

- High power switches available
- Other cables, connectors and colors available
- Four operate sensitivities available
- A choice of cable terminations and lengths are available

### DIMENSIONS

All dimensions in mm [inches]



[www.meder.com](http://www.meder.com)

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### Reed Sensors with Mounting Holes for Screw Fastening

### ORDER INFORMATION

SERIES	CONTACT FORM	SWITCH MODEL	MAGNETIC SENSITIVITY	CABLE LENGTH (mm)	TERMINATION
MK21 -	1A	XX	X -	XXX	W
OPTIONS		66	B, C, D, E	500 *	
		84	C, D, E		
* Other cable lengths available.					

#### Part Number Example

MK21 - 1A66 C - 500 W

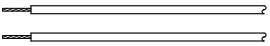
66 is the switch model  
C is the magnetic sensitivity  
500 is the cable length (mm)

### MAGNETIC SENSITIVITY

SENSITIVITY CLASS	PULL IN AT RANGE
B	10 - 15
C	15 - 20
D	20 - 25
E	25 - 30

### TERMINATION

For wire and termination details please contact factory.

W		The cable cut length includes: 5mm of wire stripped and tinned
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**CONTACT DATA**

All data at 20 °C	Switch Model --> Contact Form -->	Switch 66 Form A			Switch 84 Form A			
Contact Ratings	Conditions	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Switching Power	Any DC combination of V & A not to exceed their individual max.'s			10			10	W
Switching Voltage	DC oder peak AC			200			400	V
Switching Current	DC oder peak AC			0.5			0.5	A
Carry Current	DC oder peak AC			1.25			1.0	A
Static Contact Resistance	w/ 0.5 V & 10mA			150			150	mΩ
Dynamic Contact Resistance	Measured w/ 0.5 V & 50 mA 1.5 ms after closure			200			200	mΩ
Insulation Resistance across Contact	100 Voltapplied	10 <sup>10</sup> *			10 <sup>11</sup>			Ω
Breakdown Voltage across Contact	Voltage applied for 60 sec. min.	225 *			700			VDC
Operate Time, incl. Bounce	Measured w/ 50 % overdrive			0.5			2.0	ms
Release Time	Measured w / no coil suppression			0.1			0.1	ms
Capacitance	@ 10 kHz across contact		0.2			0.7		pF
<b>Contact Operation**</b>								
Must Operate Condition	Steady state field	10		30	15		30	AT
Must Release Condition	Steady state field	4		27	6		27	AT
<b>Environmental Data</b>								
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	-30		150	-30		150	°C
Storage Temperature	10 °C/ minute max. allowable	-40		160	-40		160	°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 <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.								