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.



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
- Various case sizes available
- Four operate sensitivities available
- A choice of cable terminations and lengths are available

DIMENSIONS

All dimensions in mm [inches]



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SERIES	CONTACT FORM	SWITCH MODEL	MAGNETIC SENSITIVITY	CABLE LENGTH (mm)	TERMINATION		
MK21 -	1A	xx	Χ-	xxx	W		
OPTIONS		71	B, C, D, E	500 *			
		84	C, D, E	500			
* Other cable lengths available.							

ORDER INFORMATION

Part Number Example

MK21 - 1A71 C - 500 W

71 is the switch modelC is the magnetic sensitivity500 is the cable length (mm)

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 contact factory.

W The cable cut length includes: 5mm of wire stripped and tinned	W
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All data at 20 °C	Switch Model> Contact Form>	Contact		71 4	71 Contac Form		84 4		
Contact Ratings	Conditions	Min.	Тур.	Max.	Min.	Тур.	Max.	Units	
Contact Rating	Any DC combination of V & A not to exceed their individual max.'s			10			10	W	
Switching Voltage	DC or peak AC			200			400	V	
Switching Current	DC or peak AC			0.5			0.5	А	
Carry Current	DC or peak AC			1.25			1.0	А	
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	1010*			10 ¹¹			Ω	
Breakdown Voltage across Contacts	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	@ 10kHz across contact		0.2			0.7		pF	
Contact Operation **									
Must Operate Condition	Steady state field	10		30	15		30	AT	
Must Release Condition	Steady state field	4		27	6		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	٥C	
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.									

CONTACT DATA

Note note. The indicated electrical data are maximum values and can vary downwards when using a more sensitive switch.
 * Insulation resistance of 10¹² and breakdown voltage of 480VDC is available.
 ** 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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