MK17 Series

MEDER electronic

Reed Sensors for SMD Mounting



APPLICATIONS

- Electronic PCB's where all components are surface mounted
- Telecommunication applications Hook switch in mobile and hard-wired phones
- Switching element in microphones

DESCRIPTION

MK17 are magnetically operated Reed proximity switches for SMD mounting.

- Lead design 1: Flat, straight leads for PCB slot mounting.
- Lead design 2: Flat, bent SMD leads.
- Lead design 3: J-Lead.

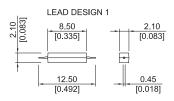
The sensors are supplied taped & reeled according to IEC 286/part 3 suitable for auto-placement. The special features of this series are the small dimensions of only 12.5 x 2.1 x 2.1mm and the simple internal structure.

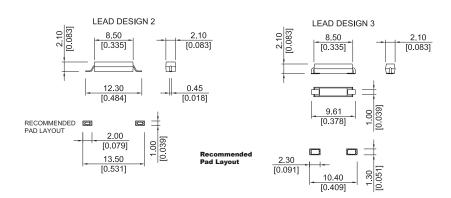
FEATURES

- Two operate sensitivities available
- Tape and Reel available
- Excellent for low power operations
- No external power required for sensor operation
- UL approved

DIMENSIONS

All dimensions in mm [inch]





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ORDER INFORMATION

Sensitivity class	Pull In At Range
В	10 - 15
С	15 - 20

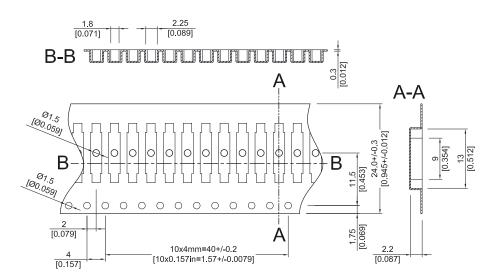
Part Number Example

MK17 - B - 1

B is the magnetic sensitivity **1** is the lead design

Series	Magnetic Sensitivity	Lead Design	
MK17 -	X -	x	
Options	B, C	1, 2	

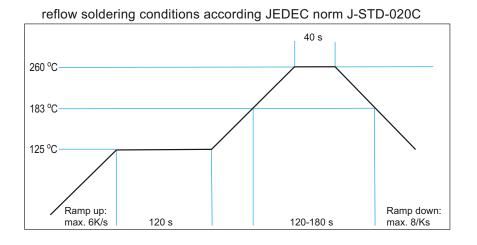
TAPE & REEL



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SOLDERING INFORMATION



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MK17 Series Reed Sensors for SMD Mounting

CONTACT DATA

All Data at 20° C	C Contact Form \rightarrow		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			170	V
Switching Current	DC or peak AC			0.5	А
Carry Current	DC or peak AC			0.5	А
Static Contact Resistance	w/ 0.5 V & 10 mA			200	mΩ
Dynamic Contact Resistance	Measured w/ 0.5 V & 50 mA , 1.5 ms after closure			250	mΩ
Insulation Resistance across Contacts	100 volts applied	10 ⁹			Ω
Breakdown Voltage across Contact	Voltage applied for 60 sec. min.	210			VDC
Operation Time incl. Bounce	Measured w/ 100 % overdrive			0.6	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		20	AT
Must Release Condition	Steady state field	4		18	AT
Environmental Data					
Shock Resistance	1/2 sinus wave duration 11 ms			30	g
Vibration Resistance	From 10 - 2000 Hz			20	g
Ambient Temperature	10°C/ minute max. allowable	-40		130	°C
Stock Temperature	10°C/ minute max. allowable	-50		130	°C
Soldering Temperature	5 sec. dwell			260	۰C
sensitive switch.	ta are maximum values and can vary down			•	

* 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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