MEDER electronic

MK1 Series

Surface Mount **Reed Sensors**

DESCRIPTION

The MK1 sensor offers a selection of magnetically operated Reed proximity switches with J-lead connections for SMD mounting. The sensors are provided in the standard 32 mm tape according to IEC 286 / part 3. Several AT ranges for the Pull-in / Drop-out sensitivities are available. Low profile packaging with a height of only 3.25 mm.

FEATURES

- Surface Mount Design
- Form C available
- High power switches available
- Four operate sensitivities available

SCHEMATIC DRAWING

DIMENSIONS

APPLICATIONS

• Electronic PCB's where all components are

· Connection detection in battery chargers

Hook switch sensor in mobile phones

Telecommunications

surface mounted

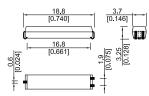
Position detection

 Microphones On/off control switch

All dimensions in mm [inches]

View from top of component





ORDER INFORMATION

SENSITIVITY CLASS	PULL IN AT RANGE		
В	10 - 15		
С	15 - 20		
D	20 - 25		
E	25 - 30		

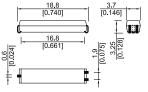
Part Number Example

MK1 - B

B is the magnetic sensitivity class



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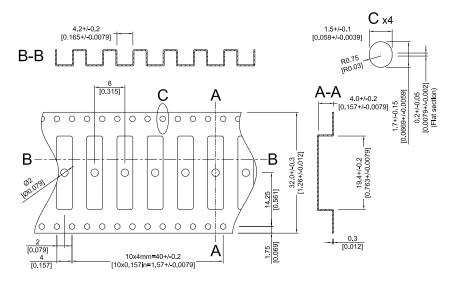
SERIES	MAGNETIC SENSITIVITY		
MK1 -	Х		
OPTIONS	B, C, D, E		

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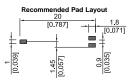
TAPE & REEL

All dimensions in mm [inches]



SOLDERING INFORMATION

All dimensions in mm [inches]



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All data at 20 °C	Contact Form>	Form A				
Contact Ratings	Conditions	Min.	Тур.	Max.	Units	
Contact Rating	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	А	
Carry Current	DC or peak AC			1.25	А	
Static Contact Resistance	w/ 0.5V & 10mA			150	mΩ	
Dynamic Contact Resistance	Measured w/ 0.5V & 50mA 1.5 ms after closure			200	mΩ	
Insulation Resistance across Contacts	100 Volts applied	1010 *			Ω	
Breakdown Voltage across Contacts	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	@ 10kHz across contact		0.2		pF	
Contact Operation **						
Must Operate Condition	Steady state field	10		30	AT	
Must Release Condition	Steady state field	04		27	AT	
Environmental Data						
Shock Resistance	1/2 sine wave duration 11ms			50	g	
Vibration Resistance	From 10 - 2000 Hz			20	g	
Ambient Temperature	10 °C/ minute max. allowable	-40		130	٥C	
Storage Temperature	10 °C/ minute max. allowable	-50		130	٥C	
Soldering Temperature	5 sec. dwell			260	°C	
 Please note: The indicated electrical data are maximum values and can vary downwards when using a more sensitive switch. * Insulation Resistance of 10¹² and a Breakdown voltage of 480 VDC version is available. 						

CONTACT DATA

Insulation Resistance of 10¹² and a Breakdown voltage of 480 VDC version 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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