

## DESCRIPTION

MK15 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.

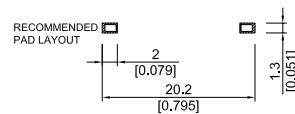
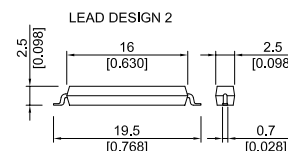
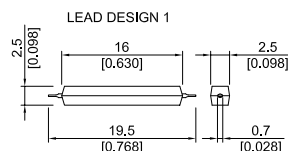
The sensors are supplied taped & reeled according to IEC 286/part 3 suitable for auto-placement. The special features of this series are the small dimensions of only 19.5 x 2.5 x 2.5mm and the simple internal structure (low-cost version).

## FEATURES

- Excellent for low power operations
- High power switches available
- Six operate sensitivities available
- Tape and Reel available
- No external power required for sensor operation
- Optional also in Form B available.

## DIMENSIONS

All dimensions in mm [inches]



## MAGNETIC SENSITIVITY

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

### Part Number Example

MK15 - B - 1

B is the magnetic sensitivity  
1 is the lead design

## ORDER INFORMATION

SERIES	MAGNETIC SENSITIVITY	LEAD DESIGN
MK15 -	X -	X
OPTIONS	B, C, D, E	1, 2

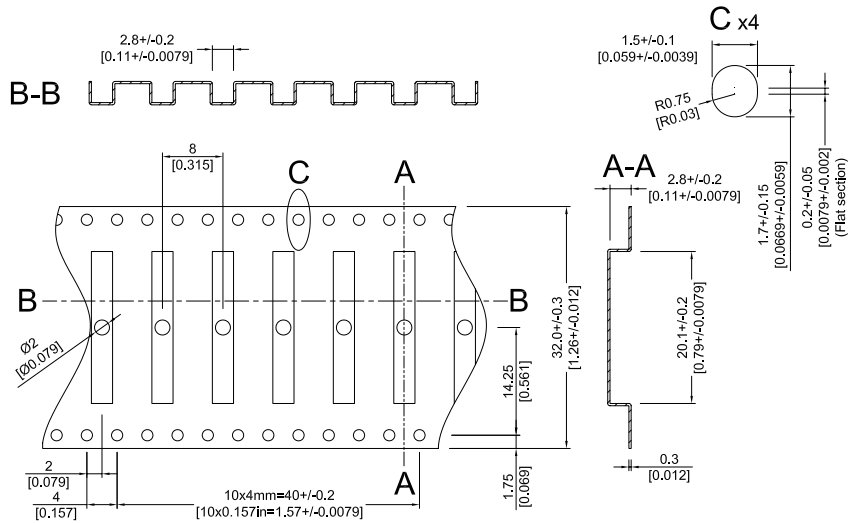


## APPLICATIONS

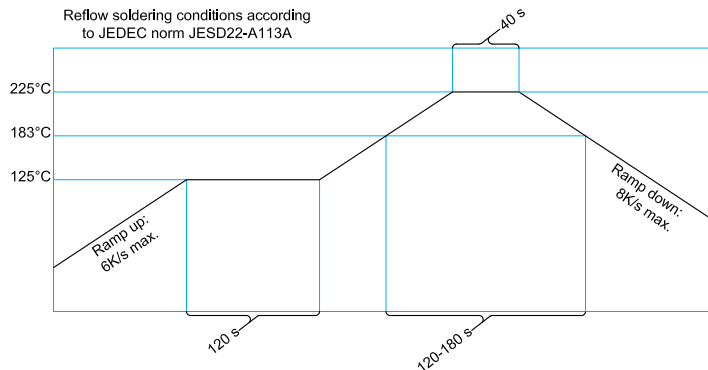
- Electronic PCB's where all components are surface mounted
- Telecommunication applications  
Hook switch in mobile and hard-wired phones
- Switching element in microphones

## Reed Sensors for SMD Mounting

### TAPE & REEL



### SOLDERING INFORMATION



**CONTACT DATA**

All data at 20° C	Contact Form -->	Form A ***			
Contact Ratings	Conditions	Min.	Typ.	Max.	Units
Switching Power	Any DC combination of V & A not to exceed their individual max.'s			10	W
Switching Voltage	DC oder peak AC			200	V
Switching Current	DC oder peak AC			0.5	A
Carry Current	DC oder peak AC			1.25	A
Static Contact Resistance	w/ 0.5 V & 10 mA			150	mΩ
Dynamic Contact Resistance	Measured w/ 0.5 V & 50 mA 1.5 ms after closure			200	mΩ
Insulation Resistance across Contacts	100 Volt applied	10 <sup>10</sup> *			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	@ 10 kHz across contact		0.2		pF
<b>Contact Operation **</b>					
Must Operate Conditon	Steady state field	10		30	AT
Must Release Condition	Steady state field	4		27	AT
<b>Umweltdaten</b>					
Shock Resistance	½ sine wave duration 11 ms			50	g
Vibration Resistance	From 10 - 2000 Hz			20	g
Ambient Temperature	10°C/ minute max. allowable	-40		130	°C
Storage Temperature	10°C/ minute max. allowabl	-50		130	°C
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 10 <sup>12</sup> and breakdown voltage 480 VDC is available. ** These ranges refer to the uncut / unmodified Reed Switches described in our Reed Switch section. *** Also Form B (NC) available. Please consult factory if more detail is required.					