

### DESCRIPTION

MK22-Sensors are magnetically operated, over moulded Reed proximity Switches for SMD mounting.

**Lead design 1:** Flat, straight leads for PCB slot mounting.

**Lead design 2:** Flat, bent SMD leads (15.6 mm length)

**Lead design 3:** Flat, bent SMD leads (19.5 mm length)

Magnet force and position magnet/sensor determine Pull-In and Drop-Out point. The sensors are supplied taped & reeled according to IEC 286/ part 3 suitable for auto-placement.



### FEATURES

- Over moulded Reed switches for better mechanical resistance
- Flat leads in three different designs
- Tape & Reel package
- Six operate sensitivities available
- No external power required for sensor operation

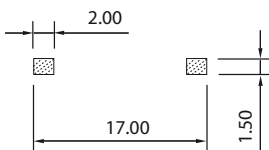
### APPLICATIONS

- Electronic PCB's where all components are surface mounted
- No power-requirement sensor for low power applications
- Telecommunication applications
- Automotive applications

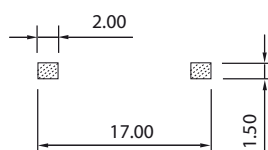
### PAD LAYOUT

All dimensions in mm [inches]  
unspecified tolerances +/- 0.1 mm

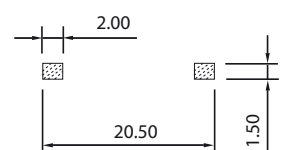
Lead design 1



Lead design 2



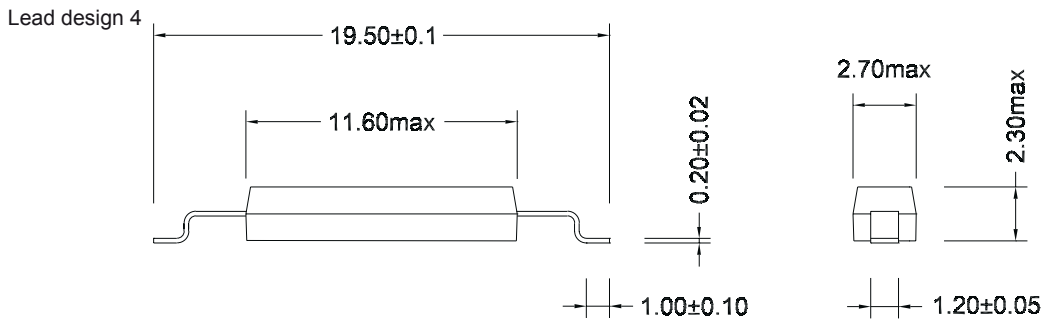
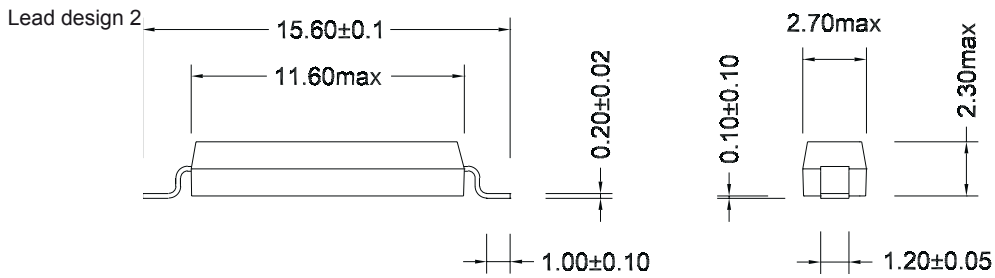
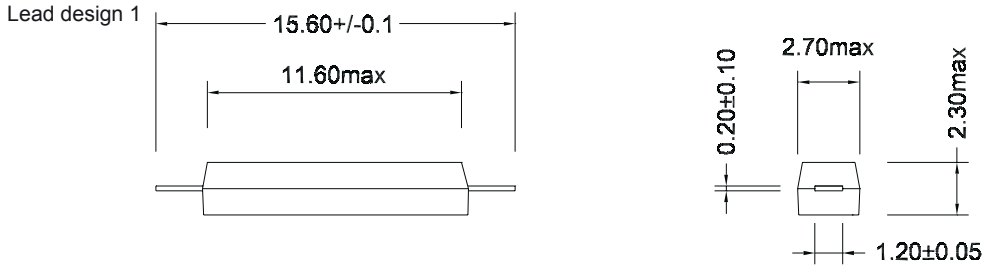
Lead design 4



**Reed Sensors for  
SMD Mounting**

**DIMENSIONS**

All dimensions in mm [inches] unspecified tolerances +/- 0.1 mm



**ORDER INFORMATION**

Series	Magnetic Sensitivity	Lead Design
MK 22 -	X -	X
Options	A, B, C	1, 2, 4

**Part Number Example**

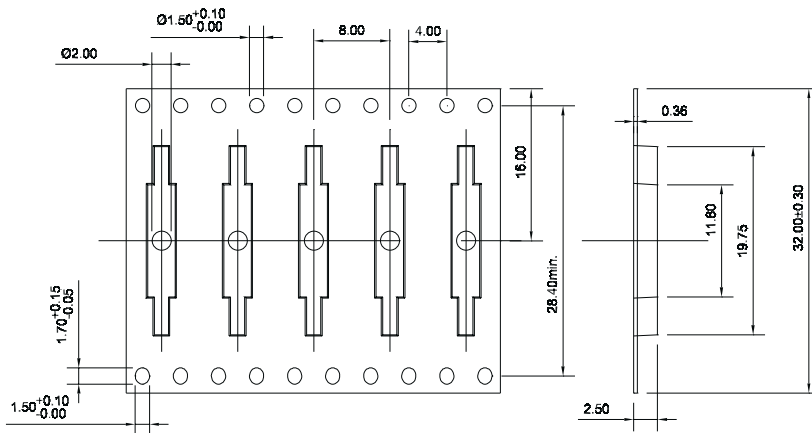
MK22 - B - 4

B is the magnetic sensitivity  
4 is the lead design

**MAGNETIC SENSITIVITY**

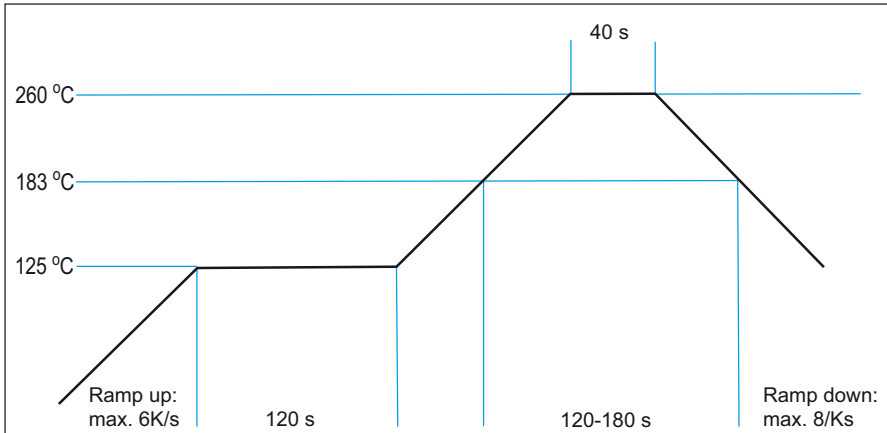
Sensitivity Class	Pull IN At Range
B	10 - 15
C	15 - 20

**TAPE & REEL**



SOLDERING INFORMATION

reflow soldering conditions according JEDEC norm J-STD-020C



**CONTACT DATA**

<b>All Data at 20° C</b>	<b>Contact Form →</b>	<b>Form A</b>			
<b>Contact Ratings</b>	<b>Conditions</b>	<b>Min.</b>	<b>Typ.</b>	<b>Max.</b>	<b>Units</b>
Switching Power	Any DC combination of V & A not to exceed their individual max.'s			20*	W
Switching Voltage	DC or peak AC			200	V
Switching Current	DC or peak AC			1.0	A
Carry Current	DC or peak AC			1.25	A
Static Contact Resistance (initial)	w/ 0.5 V & 10 mA			150	mΩ
Insulation Resistance	RH 45%	10 <sup>12</sup>			Ω
Breakdown Voltage	Voltage applied for 60 sec. min.	320			VDC
Operation Time incl. Bounce	Measured w/ 100 % overdrive			0.5	ms
Release Time	Measured w/ no coil suppression			0.1	ms
Capacitance	at 10 kHz cross contact		0.2		pF
<b>Contact Operation **</b>					
Pull-In Switch unmodified	Test coil KMS-02	10		3.5	AT
Drop-Out Switch unmodified	Test coil KMS-02	5.5		28	AT
<b>Environmental Data</b>					
Shock Resistance	1/2 sinus wave duration 11 ms			50	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.			260	°C
<p>* The indicated electrical data are maximum values and can vary downwards when using a more sensitive switch. Consult factory if more detail is required.                      ** These ranges refer to the uncut / unmodified Reed Switches described in our Reed Switch section. Consult factory if more detail is required.</p>					