

DESCRIPTION

MK23-Sensors are magnetically operated, open 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

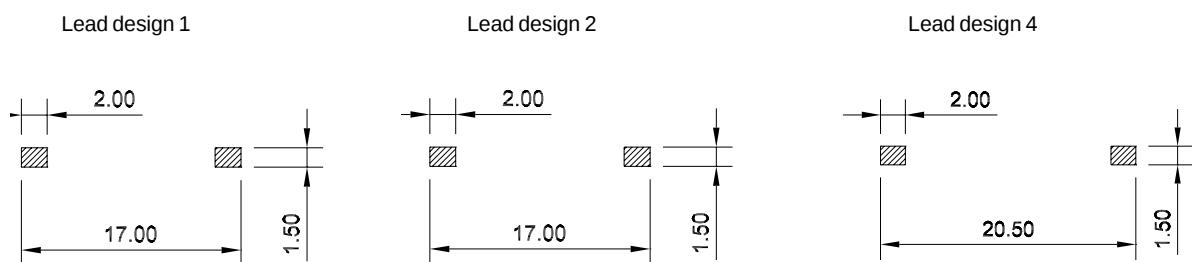
- Reed switches without moulding case for reasonable products
- Flat leads in three different designs
- Tape & Reel package
- Six operate sensitivities available
- No external power required for sensor operation

APPLICATIONS

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

PAD LAYOUT

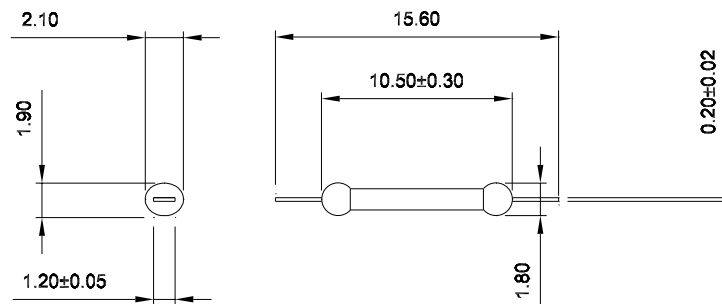
All dimensions in mm. Unspecified Tolerances +/- 0.1 mm



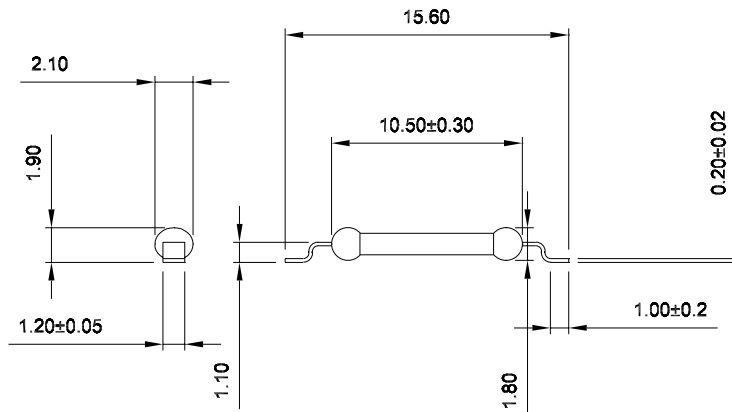
DIMENSIONS

All dimensions in mm. Unspecified Tolerances +/- 0.1 mm

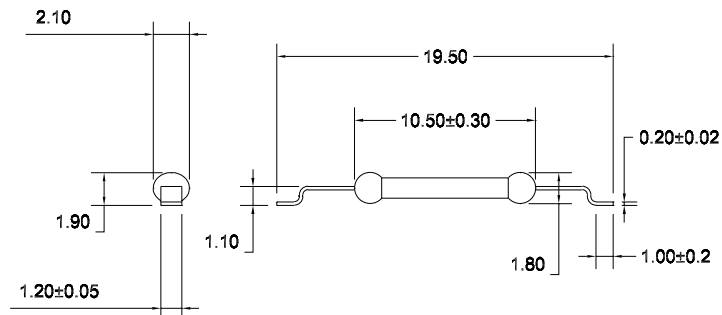
Lead design 1



Lead design 2



Lead design 4



ORDER INFORMATION

Series	Magnetic sensitivity	Lead design
MK22 -	X -	X
Options	A, B, C, D, E, F	1, 2, 4

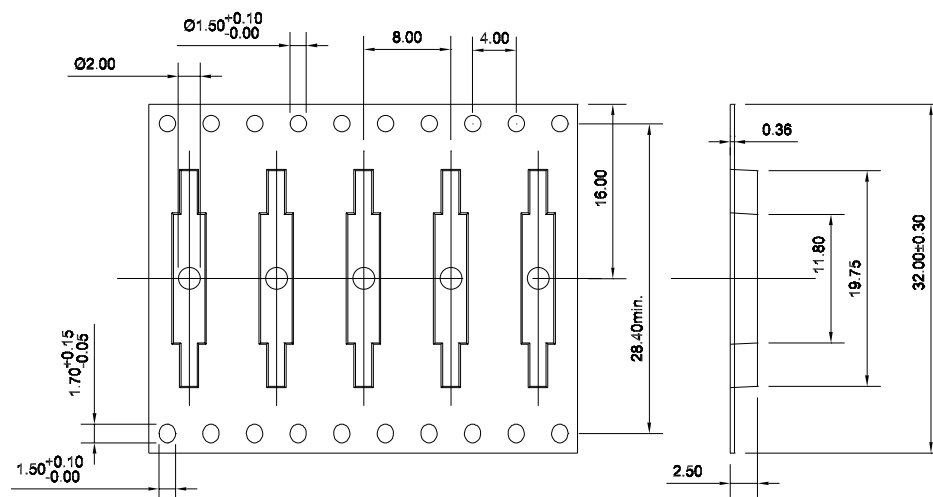
Part Number Example

MK23 - B - 4

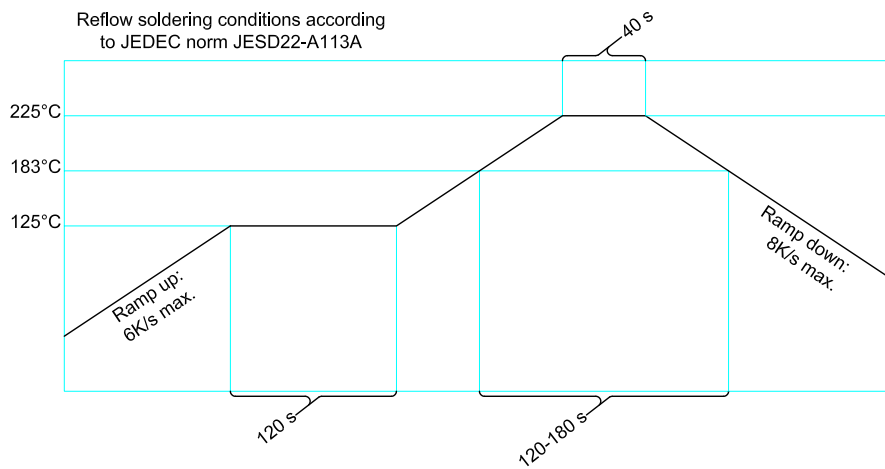
B is the magnetic sensitivity
4 is the lead design

Sensitivity class	Pull In at range
A	6 - 10
B	10 - 15
C	15 - 20
D	20 - 25
E	25 - 30
F	30 - 35

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			20*	W
Switching Voltage	DC oder peak AC			200	V
Switching Current	DC oder peak AC			1.0	A
Carry Current	DC oder peak AC			1.25	A
Static Contact Resistance (initial)	Measured with 40 % overdrive			150	mW
Insulation Resistance	RH 45 %	10 ¹²			W
Breakdown Voltage		320			VDC
Operate Time, incl. Bounce	Measured w/ 40 % overdrive			0.5	ms
Release Time				0.1	ms
Capacitance			0.2		pF
Contact Operation **					
Pull-In Switch unmodified	Test coil KMS-02	10		35	AT
Drop-Out Switch unmodified	Test coil KMS-02	5.5		28	AT
Umweltdaten					
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. Consult factory if more detail is required. ** The ranges refer to the uncut / unmodified Reed Switches described in our Reed Switch section. When cutting and modifying a Reed Switch, more magnetic force is required to activate.					