DESCRIPTION

MK24 are the smallest, 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 in 16mm Tape & Reel package according to IEC 286/part 3 suitable for auto-placement.

FEATURES

- Small dimensions: 5.0 x 2.2 x 1.7mm
- Three operate sensitivities available
- Tape and Reel available
- Excellent for low power operations
- No external power required for sensor operation
- UL approved

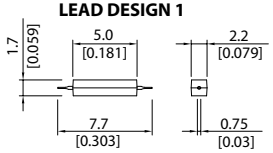
APPLICATIONS

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

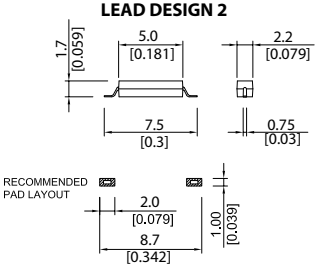
DIMENSIONS

All dimensions in mm [inch]

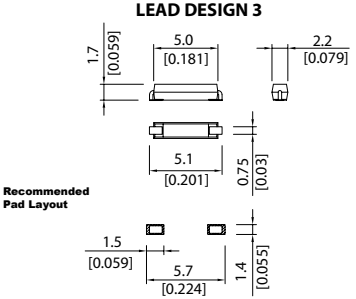
LEAD DESIGN 1



LEAD DESIGN 2



LEAD DESIGN 3



ORDER INFORMATION

Series	Magnetic Sensitivity	Lead Design
MK24 -	**X -**	**X**
Options	A, B, C	1, 2, 3

Part Number Example

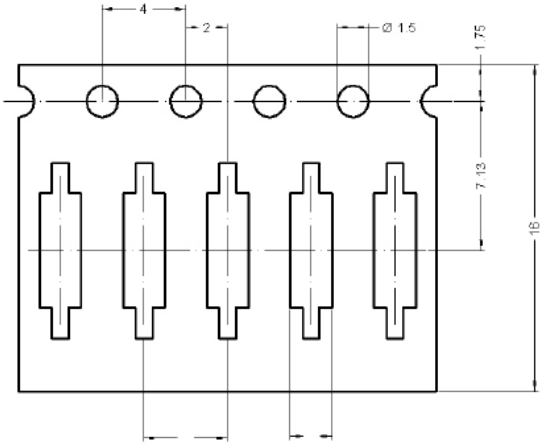
MK24 - B - 1

B is the magnetic sensitivity
1 is the lead design

MAGNETIC SENSITIVITY

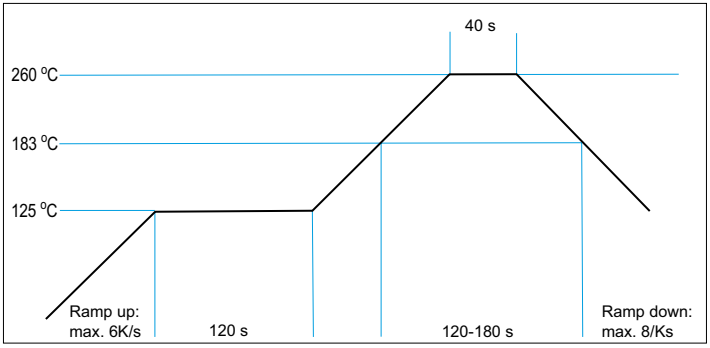
Sensitivity class	Pull In AT Range
A	5 - 10
B	10 - 15
C	15- 20

TAPE & REEL



SOLDERING INFORMATION

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



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			1	W
Switching Voltage	DC or peak AC			60	V
Switching Current	DC or peak AC		0.1	0.3	A
Carry Current	DC or peak AC			0.5	A
Static Contact Resistance	w/ 0.5 V & 10 mA		300	500	mΩ
Dynamic Contact Resistance	Measured w/ 0.5 V & 50 mA , 1.5 ms after closure			500	mΩ
Insulation Resistance across Contacts	100 volts applied	10^{10}			Ω
Breakdown Voltage across Contact	Voltage applied for 60 sec. min.	100			VDC
Operate 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		0.1		pF
Contact Operation *					
Must Operate Condition	Steady state field	10		30	AT
Must Release Condition	Steady state field	4		28	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		125	°C
Stock Temperature	10°C/ minute max. allowable	-40		125	°C
Soldering Temperature	5 sec. dwell	260		280	°C

Please note: The indicated electrical data are maximum values and can vary downwards when using a more sensitive switch.
* These ranges refer to the uncut / unmodified Reed Switches described in our Reed Switch section. Consult factory if more detail is required.