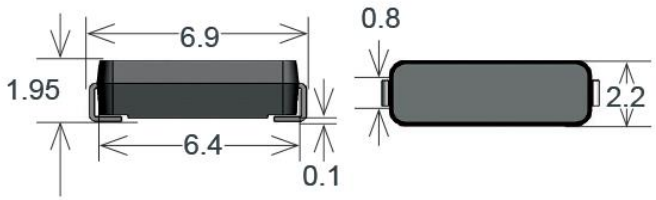
MK31 Series Reed Sensors

- **Features: Excellent for Low Power Operations, Gap of the paddles is exactly in the middle, Centrally aligned, Round corners, Supplied in Tape & Reel, J-Lead and Gull Wing**
- **Applications: On/Off Control Switch, Position Detection, Sabotage Switch, Switching Element & Others**
- **Markets: Metering, Appliance, Medical, Security, Telecommunication & Others**



Part Description: MK31-X-0

Magnetic Sensitivity	Lead Design
B	2, 3

Customer Options	Switch Model	Unit
Contact Data	04	
Rated Power (max.) Any DC combination of V&A not to exceed their individual max.'s	3	W
Switching Voltage (max.) DC or peak AC	30	V
Switching Current (max.) DC or peak AC	0.3	A
Carry Current (max.) DC or peak AC	0.5	A
Contact Resistance (max.) @ 0.5V & 50mA	200	mOhm
Breakdown Voltage (min.) According to EN60255-5	100	VDC
Operating Time (max.) Incl. Bounce; Measured with w/ Nominal Voltage	0.2	ms
Release Time (max.) Measured with no Coil Excitation	0.15	ms
Insulation Resistance (typ.) Rh<45%, 100V Test Voltage	10	GOhm
Capacitance (typ.) @ 10kHz across open Switch	0.1	pF

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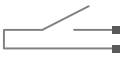
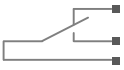
MK31 Series Reed Sensors

Housing and Lead Specifications	
Housing Material	Mineral Filled Epoxy
Case Color	Black
Lead Design 1	Flat, straight leads for PCB slot mounting
Lead Design 2	Flat, bent SMD leads
Lead Design 3	J-Lead

Environmental Data		Unit
Shock Resistance (max.) 1/2 sine wave duration 11ms	30	g
Vibration Resistance (max.)	20	g
Operating Temperature	-40 to 115	°C
Storage Temperature	-55 to 115	°C
Soldering Temperature (max.) 5 sec. max.	260	°C

Glossary Contact Form		
Form A	NO = Normally Open Contacts SPST = Single Pole Single Throw	
Form B	NC = Normally Closed Contacts SPST = Single Pole Single Throw	
Form C	Changeover SPDT = Single Pole Double Throw	

Layout

Top View

Glossary Magnetic Sensitivity							
Sens.	A	B	C	D	E	F	G
AT	05-10	10-15	15-20	20-25	25-30	30-35	35-40

MK31 Reed Sensor

Handling & Assembly Instructions

- Use proper lead clamping or heat sinking techniques to prevent mechanical and/or heat stress during, soldering, and welding
- Mechanical shock as the result of dropping the reed sensor typically from a distance of greater than 12" may change it's magnetic sensitivity and/or destroy the sensor
- Reflow Soldering Conditions according to JEDEC norm J-STD-020D.1

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