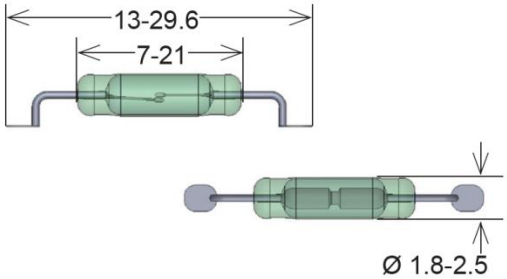
MK23
Reed Sensors



Values depend on switch model (xxx)

- Features: Miniature, Close Differential, Long Life Expectancy
- Applications: Air Conditioning, Gas Metering , Barcode Scanner, Security Panel, Water Flow Gauge & Others
- Markets: Automotive, Telecommunication, Security, Test & Measurement, Household, Medical & Others

Part Description: MK 23-00-X-0

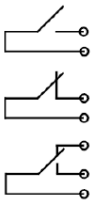
Switch Model	Sensitivity	Lead Design
35, 46, 52, 66, 80, 85, 87, 90	B, C, D, E, F, G	1, 2, 4

Customer Options	Switch Model								Unit
Contact Data	**35**	**46**	**52**	**66**	**80**	**85**	**87**	**90**	
Rated Power (max.) Any DC combination of V&A not to exceed their individual max.'s	20	10	50	10	10	100	10	10	W
Switching Voltage (max.) DC or peak AC	200	200	350	200	170	1,000	200	175	V
Switching Current (max.) DC or peak AC	1.0	0.5	0.5	0.5	0.5	1.0	0.4	0.5	A
Carry Current (max.) DC or peak AC	1.25	1.0	2.5	1.0	0.5	2.5	0.5	1.0	A
Contact Resistance (max.) @ 0.5V & 10mA	150	150	150	150	200	150	150	150	mOhm
Breakdown Voltage (min.) According to EN60255-5	0.22	0.225	0.5	0.25	0.21	1.5	0.23	0.2	kVDC
Operating Time (max.) Incl. Bounce; Measured with 40% Overdrive	0.5	0.7	1.1	0.7	0.6	1.1	0.6	0.7	ms
Release Time (max.) Measured with no Coil Excitation	0.1	0.05	0.1	0.05	0.1	0.1	0.05	1.5	ms
Insulation Resistance (min.) RH < 45%, 100 V Test Voltage	10^{10}	10^{9}	10^{10}	10^{10}	10^{9}	10^{10}	10^{9}	10^{9}	Ohm
Capacitance (typ.) @ 10kHz across open Switch	0.3	0.3	0.5	0.3	0.2	0.5	0.2	1.5	pF

Modifications in the sense of technical progress are reserved.

Dimensions (mm) and Lead Specifications	
Overall Length	13.0 – 29.6
Glass Length	7 .0 – 21.0
Glass Dia.	1.8 - 2.75
Lead Dia.	0.3 to 0.6
Lead design 1	Flat, straight leads for PCB slot mounting
Lead Design 2	Flat, bent SMD leads (Gull-wing)
Lead Design 4	Round, bent SMD leads for PCB slot mounting

Environmental Data		Unit
Shock Resistance (max.) 1/2 sine wave duration 11ms	50	g
Vibration Resistance (max.)	20	g
Operating Temperature	-40 to 130	°C
Storage Temperature	-55 to 130	°C
Soldering Temperature (max.) 5 sec. max.	260	°C

Glossary		
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	

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

REACH COMPLIANT

RoHS COMPLIANT

cRUus

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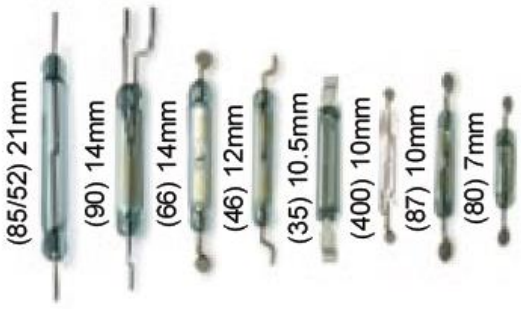
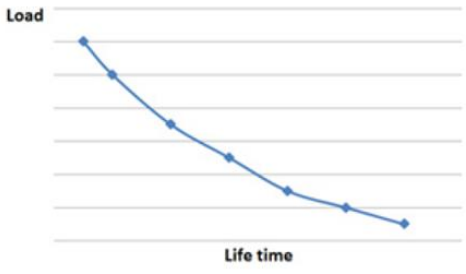


Handling & Assembly Instructions

- 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
- Series resistor recommended for >5m cable length

Life Test Data

*Load increase reduces life expectancy of Reed Switches



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