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Standex Electronics

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Series Datasheet

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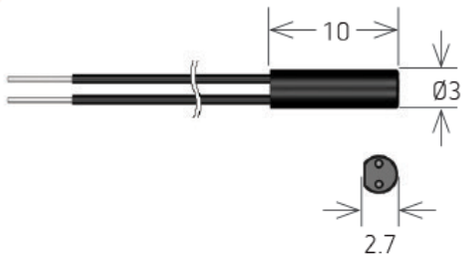
MK20/1 Series Reed Sensors

- **Features: Cylindrical Reed Sensor, Choice of Cable Termination & Lengths available, Various Case Sizes**
- **Applications: Door & Window Contacts, With Magnetic Floats for Water Level Detection, Position Sensing**
- **Markets: Appliance, Industrial, Security & Others**



Part Description: MK20/1-X-000X

Magnetic Sensitivity	Cable Length (mm)	Termination
B, C, D, E	100, 200, 300, 500	W = Stripped & Tinned

Customer Options	Switch Model	Unit
Contact Data	80	
Rated Power (max.) Any DC combination of V&A not to exceed their individual max.'s	10	W
Switching Voltage (max.) DC or peak AC	170	V
Switching Current (max.) DC or peak AC	0.5	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	0.21	kVDC
Operating Time (max.) Incl. Bounce; Measured with w/ Nominal Voltage	0.6	ms
Release Time (max.) Measured with no Coil Excitation	0.05	ms
Insulation Resistance (typ.) Rh<45%, 100V Test Voltage	10^9	Ohm
Capacitance (typ.) @ 10kHz across open Switch	0.4	pF

USA: +1 866.782.6339 | salesusa@standexmeder.com EMEA: +49 7731/8399-0 | info@standexmeder.com APAC: +86 21/37606000 | salesasia@standexmeder.com

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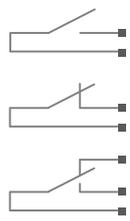
Housing and Lead Specifications

Housing Material	PBT 30% GF
Case Color	Black
Sealing Compound	Polyurethane
Cable Type	Single Wires
Cable Material	PVC
Cross Section (mm^2)	2 x 0.06

Environmental Data		Unit
Shock Resistance (max.) 1/2 sine wave duration 11ms	50	g
Vibration Resistance (max.)	20	g
Operating Temperature Cable not moved	-30 to 70	°C
Operating Temperature Cable moved	-5 to 70	°C
Storage Temperature	-30 to 70	°C

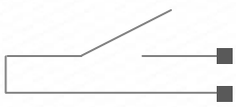
Glossary Contact Form

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

MK20/1 Reed Sensor

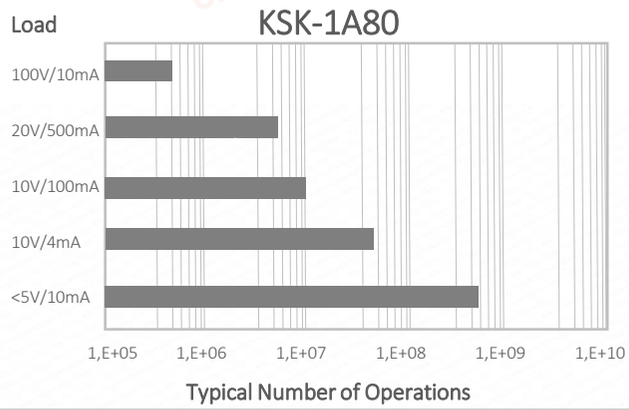


Handling & Assembly Instructions

- Max torque of screw is 1Nm
- Cable bending-radius is diameter x 15
- Min. bending distance to housing is 5mm
- Drag mark out of the mounting area forbidden
- Decrease switching distance by mounting on iron
- Do not use magnetically inductive screws
- Series resistor recommended for > 5m cable length

Life Test Data

*Load increase reduces life expectancy of Reed Switches



Please note: All technical specifications on this series datasheet refer to the standard product range. Modifications in the sense of technical progress are reserved. For general information only. For more specific information, please consult the product datasheet, available upon request.

This series datasheet could contain technical inaccuracies or typographical errors. Changes are periodically made to the information herein. These change will be incorporated in future revisions.

For deviating values, most current specifications and products please contact your nearest sales office.

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USA: +1 866.782.6339 | salesusa@standexmeder.com EMEA: +49 7731/8399-0 | info@standexmeder.com APAC: +86 21/37606000 | salesasia@standexmeder.com