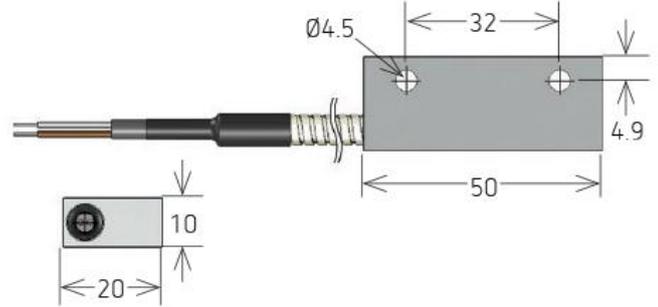


# MK27 Series Reed Sensors

- **Features:** Aluminum Screw Fastening Reed Sensor with Metal-Tubed Cable Termination
- **Applications:** Harsh Environments Position, Agricultural Engineering & Others
- **Markets:** Agriculture, Construction, Appliance, Industrial, Security & Others



Part Description: **MK27-0X00X-000X**

Contact Qty	Contact Form	Switch Model	Magnetic Sensitivity	Cable Length (mm)	Termination
1	A, B, C	66, 85	B, C, D, E	500, 1000, 1500, 2000, 3000, 5000	W = Stripped & Tinned

Customer Options	Switch Model		Unit
	66	85	
<b>Contact Data</b>			
<b>Rated Power (max.)</b> Any DC combination of V&A not to exceed their individual max.'s	10	100	W
<b>Switching Voltage (max.)</b> DC or peak AC	180	1000	V
<b>Switching Current (max.)</b> DC or peak AC	0.5	1.0	A
<b>Carry Current (max.)</b> DC or peak AC	1.25	2.5	A
<b>Contact Resistance (max.)</b> @ 0.5V & 50mA	150	150	mOhm
<b>Breakdown Voltage (min.)</b> According to EN60255-5	0.25	1.5	kVDC
<b>Operating Time (max.)</b> Incl. Bounce; Measured with w/ Nominal Voltage	0.7	1.1	ms
<b>Release Time (max.)</b> Measured with no Coil Excitation	0.05	0.05	ms
<b>Insulation Resistance (typ.)</b> Rh<45%, 100V Test Voltage	10 <sup>10</sup>	10 <sup>10</sup>	Ohm
<b>Capacitance (typ.)</b> @ 10kHz across open Switch	0.3	0.5	pF

# MK27 Series Reed Sensors

## Housing and Lead Specifications

Housing Material	Aluminum
Case Color	-
Sealing Compound	Polyurethane
Cable Type	Round Cable
Cable Material	PVC
Cross Section (mm <sup>2</sup> )	2 x 0.25

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 80	°C
Operating Temperature Cable moved	-5 to 80	°C
Storage Temperature	-30 to 80	°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



## MK27 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

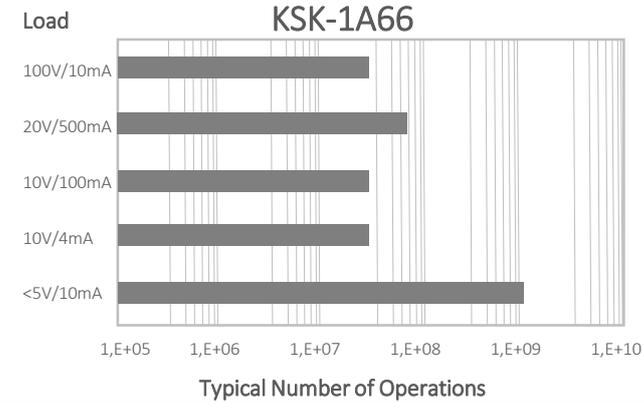
## Glossary Magnetic Sensitivity

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

# MK27 Series Reed Sensors

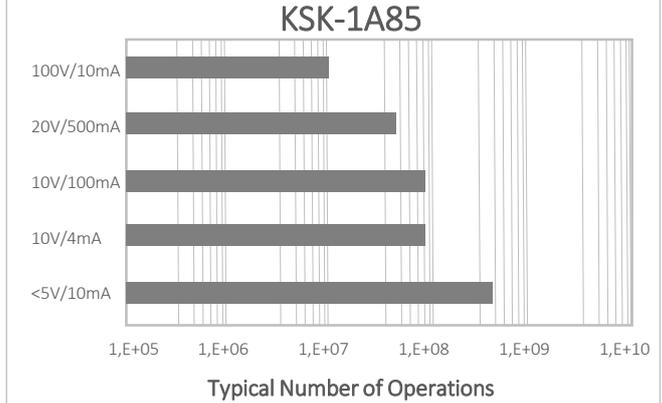
## Life Test Data

\*Load increase reduces life expectancy of Reed Switches



## 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.

