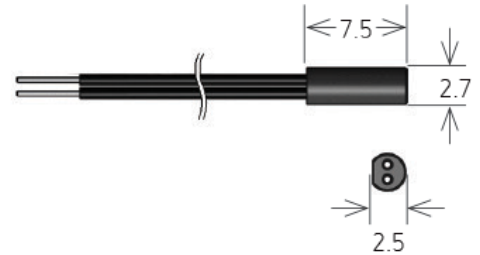


# MK20/2 Series Reed Sensors

- **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: **MK20/2-X-000X**

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

| Customer Options   | Switch Model     | Unit |
|--|------------------|------|
| <b>Contact Data</b>  | <b>04</b>        |      |
| <b>Rated Power (max.)</b><br>Any DC combination of V&A not to exceed their individual max.'s | 3                | W    |
| <b>Switching Voltage (max.)</b><br>DC or peak AC   | 30               | V    |
| <b>Switching Current (max.)</b><br>DC or peak AC   | 0.3              | A    |
| <b>Carry Current (max.)</b><br>DC or peak AC   | 0.5              | A    |
| <b>Contact Resistance (max.)</b><br>@ 0.5V & 50mA  | 200              | mOhm |
| <b>Breakdown Voltage (min.)</b><br>According to EN60255-5                                    | 0.1              | kVDC |
| <b>Operating Time (max.)</b><br>Incl. Bounce; Measured with w/ Nominal Voltage               | 0.25             | ms   |
| <b>Release Time (max.)</b><br>Measured with no Coil Excitation                               | 0.15             | ms   |
| <b>Insulation Resistance (typ.)</b><br>Rh<45%, 100V Test Voltage                             | 10 <sup>10</sup> | Ohm  |
| <b>Capacitance (typ.)</b><br>@ 10kHz across open Switch                                      | 0.1              | pF   |

# MK20/2 Series Reed Sensors

## Housing and Lead Specifications

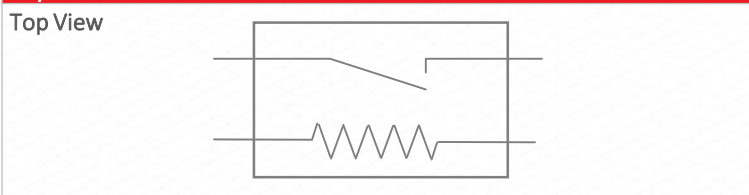
|                                  |              |
|----------------------------------|--------------|
| Housing Material                 | PBT 30% GF   |
| Case Color                       | Black        |
| Sealing Compound                 | Polyurethane |
| Cable Type                       | Single Wires |
| Cable Material                   | PVC          |
| Cross Section (mm <sup>2</sup> ) | 2 x 0.06     |

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

## Glossary Contact Form

|        |  |   |
|--------|--|---|
| Form A | NO = Normally Open Contacts<br>SPST = Single Pole Single Throw   |  |
| Form B | NC = Normally Closed Contacts<br>SPST = Single Pole Single Throw |  |
| Form C | Changeover<br>SPDT = Single Pole Double Throw                    |  |

## Layout



## Glossary Magnetic Sensitivity

| Sens. | B     | C     | D     | E     |
|-------|-------|-------|-------|-------|
| AT    | 10-15 | 15-20 | 20-25 | 25-30 |

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.

## MK20/2 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

