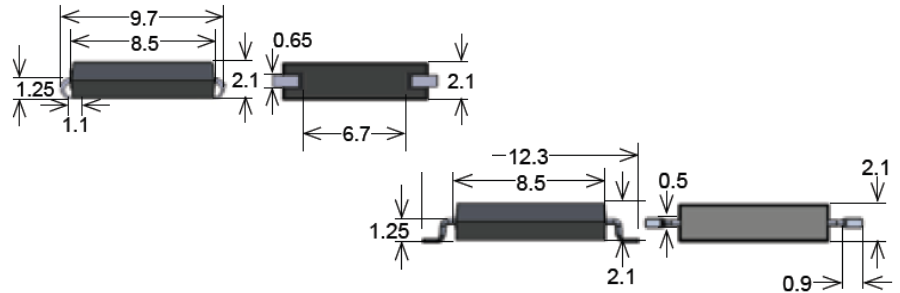


# MK17 Series Reed Sensors



- Features: Supplied in Tape & Reel, J-Lead, Excellent for Low Power Operations
- Applications: On/Off Control Switch, Position Detection, Switching Element & Others
- Markets: Appliance, Telecommunication, Security, Medical & Others

Part Description: **M K 17 - 0 - X**

| Magnetic Sensitivity | Lead Design |
|----------------------|-------------|
| B, C, D, E           | 1, 2, 3     |

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

## Series Datasheet – MK17 Reed Sensors




[www.standexmeder.com](http://www.standexmeder.com)

### 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.)<br>1/2 sine wave duration 11ms | 30         | g    |
| Vibration Resistance (max.)                            | 20         | g    |
| Operating Temperature                                  | -40 to 130 | °C   |
| Storage Temperature                                    | -50 to 130 | °C   |
| Soldering Temperature (max.)<br>5 sec. max.            | 260        | °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                    |                                                                                                                                                                                                                                                             |

### 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 |



### MK17 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 may cause immediate or post-installation failure
- Reflow Soldering Conditions according to JEDEC norm J-STD-020D.1

### Life Test Data

\*Load increase reduces life expectancy of Reed Switches

