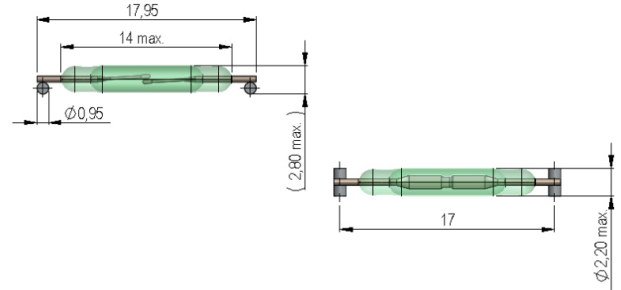


MK33 Series Reed Sensors

- **Features:** Minimal height, Long Life Expectancy
- **Applications:** vast number
- **Markets:** various markets



Part Description:

M K 3 3 - 0 0 - X - 0

| Switch Model | Magnetic Sensitivity | Lead Design |
|--------------|----------------------|-------------|
| 66, 80, 87 | B | 2 Helix |

| Customer Options | Switch Model | | | Unit |
|--|------------------|-----------------|-----------------|------|
| | 66 | 80 (optional) | 87 (optional) | |
| Contact Data | | | | |
| Rated Power (max.) Any DC combination of V&A not to exceed their individual max.'s | 10 | 10 | 10 | W |
| Switching Voltage (max.) DC or peak AC | 100 | 170 | 200 | V |
| Switching Current (max.) DC or peak AC | 0.5 | 0.5 | 0.4 | A |
| Carry Current (max.) DC or peak AC | 1.0 | 0.5 | 0.5 | A |
| Contact Resistance (max.) @ 0.5V & 50mA | 150 | 200 | 150 | mOhm |
| Breakdown Voltage (min.) According to EN60255-5 | 150 | 210 | 230 | VDC |
| Operating Time (max.) Incl. Bounce; Measured with w/ Nominal Voltage | 0.7 | 0.6 | 0.6 | Ms |
| Release Time (max.) Measured with no Coil Excitation | 0.05 | 0.05 | 0.05 | Ms |
| Insulation Resistance (typ.) Rh<45%, 100V Test Voltage | 10 ¹⁰ | 10 ⁹ | 10 ⁹ | Ohm |
| Capacitance (typ.) @ 10kHz across open Switch | 0.3 | 0.4 | 0.2 | pF |

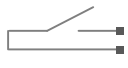
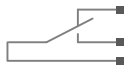
MK33 Series Reed Sensors

Dimensions (mm) and Lead Specifications

| | |
|----------------|-----------|
| Overall Length | 17,95 |
| Glass Length | 14 |
| Glass Dia. | 2.2 |
| Lead Dia. | 0.95 |
| Lead Design 2 | Gull-Wing |

| Environmental Data | | Unit |
|---|------------|------|
| Shock Resistance (max.) 1/2 sine, duration 11ms, in 3 axis | 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 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 |

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.

MK33 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 typically from a distance of greater than 12" may change it's magnetic sensitivity and/or destroy the sensor
- Reflow Soldering Conditions according to JEDEC norm J-STD-020D.1

Life Test Data

*Load increase reduces life expectancy of Reed Switches

