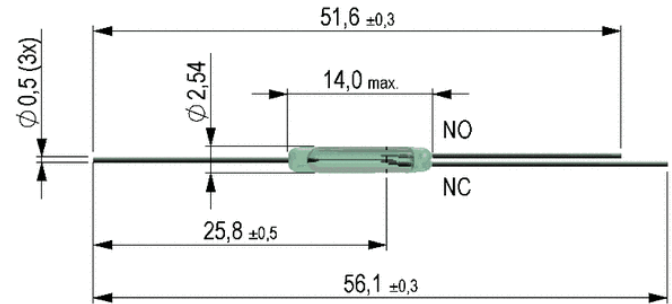


# KSK-1C90U Reed Switches



- Features: SPDT Changeover, Miniature
- Applications: Door Detector, Tampering Switch, Counter & Others
- Markets: Automotive, Test & Measurement, Safety & Others

Part Description: **K S K - 1 C 9 0 U X X X X**

| Contact QTY | Contact Form        | Switch Model | Pull-In Excitation<br>(AT-Range) |
|-------------|---------------------|--------------|----------------------------------|
| 1           | C (SPDT-Changeover) | 90F          | 15 - 45                          |

| Contact Data   |                 | Unit |
|--|-----------------|------|
| <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   | 175             | V    |
| <b>Switching Current (max.)</b><br>DC or peak AC   | 0.5             | A    |
| <b>Carry Current (max.)</b><br>DC or peak AC   | 1.0             | A    |
| <b>Contact Resistance (max.)</b><br>@ 0.5V & 10mA  | 150             | mOhm |
| <b>Breakdown Voltage (min.)</b><br>DC or peak AC   | 200             | V    |
| <b>Operating Time (max.)</b><br>Incl. Bounce; Measured with 40% Overdrive                    | 0.7             | ms   |
| <b>Release Time (max.)</b><br>Measured with no Coil Excitation                               | 1.5             | ms   |
| <b>Test Coil</b>   | KMS-01          |      |
| <b>Insulation Resistance (min.)</b><br>RH < 45%, 100 V Test Voltage                          | 10 <sup>9</sup> | Ohm  |
| <b>Capacitance (typ.)</b><br>@ 10kHz across open Switch                                      | 1.0             | pF   |

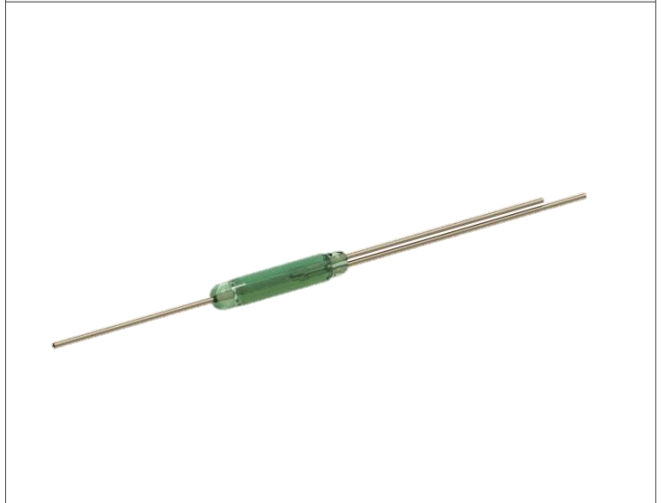
Series Datasheet – KSK-1C90U Reed Switches

www.standexmeder.com

| Dimensions (mm)       |      |
|-----------------------|------|
| Overall Length (max.) | 56.1 |
| Glass Length (max.)   | 14.0 |
| Glass Dia (max.)      | 2.54 |
| Lead Dia. (max.)      | 0.5  |

| Environmental Data                                     |            | Unit |
|--|------------|------|
| Shock Resistance (max.)<br>1/2 sine wave duration 11ms | 50         | g    |
| Vibration Resistance (max.)                            | 20         | g    |
| Operating Temperature                                  | -40 to 130 | °C   |
| Storage Temperature                                    | -55 to 130 | °C   |
| Soldering Temperature (max.)<br>5 sec. max.            | 260        | °C   |

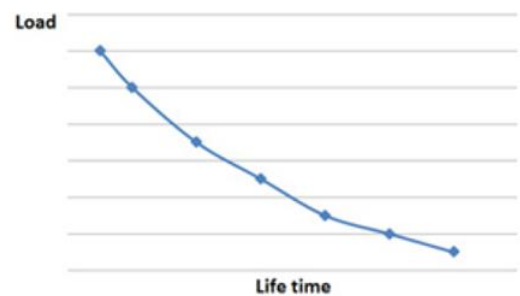
KSK-1C90U Reed Switch



| Handling & Assembly Instructions |   |
|----------------------------------|---|
| ➤                                | Use proper lead clamping or heat sinking techniques to prevent mechanical and/or heat stress to the glass seal during bending, cutting, soldering, and welding          |
| ➤                                | Mechanical shock as the result of dropping the reed switch typically from a distance of greater than 12" may change it's magnetic sensitivity and/or destroy the switch |
| ➤                                | Any form of modification to the switch leads will alter it's magnetic sensitivity   |
| ➤                                | Series resistor recommended for >5m cable length  |

Life Test Data

\*Load increase reduces life expectancy of Reed Switches



| Glossary Contact Material |  |  |
|---------------------------|--|--|
| 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                    |  |

