

Reed Sensor with Screw Thread Enclosure

[查询"MK11-1A66B-500W"供应商](#)



DESCRIPTION

MK11 sensors are magnetically operated Reed Sensors with screw thread enclosure supplied with interconnect cable. The sensor should be mounted on a fixed surface with the actuating magnet on the moving surface. Introduction or removal of the magnetic field determines the closing and opening of the Reed Switch.

APPLICATIONS

- Piston end travel and position detection
- End motion detection for linear drives
- Machine industry

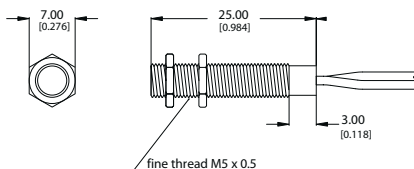
FEATURES

- Stainless steel and plastics designs with thread for space adjustment
- High power switches available
- Other cables, connectors and colors available
- Various case sizes available
- Five operate sensitivities available
- A choice of cable terminations and lengths are available

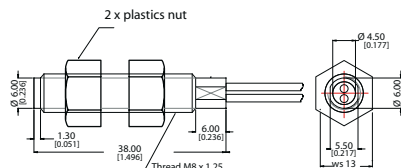
DIMENSIONS

All dimensions in mm [inches]

MK11 (Stainless Steel)



MK11/M8 (Plastics)



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ORDER INFORMATION

Part Number Example

MK11 - 1A66 C - 500 W
 MK11/M8 - 1A66 C - 500 W

66 is the switch model

C is the magnetic sensitivity

500 is the cable length (mm)

W is the termination

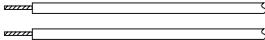
| Series | Contact-form | Switch-model | Magnetic Sensitivity | Cable Length (mm) | Termination |
|---|--------------|--------------|----------------------|-------------------|-------------|
| MK11 - | 1A | XX | X | XXX | X |
| Options | 1A | 66 | B, C, D, E | 500* | W |
| | | 84** | B, C, D, E | | |
| | 1C | 90** | C, D, E | | |
| * Other cable lengths available. ** Only for MK11/M8 (plastics). | | | | | |

MAGNETIC SENSITIVITY

| Sensitivity Class | Pull In At Range |
|-------------------|------------------|
| B | 10 - 15 |
| C | 15 - 25 |
| D | 20 - 25 |
| E | 25 - 30 |

TERMINATION

For wire and termination details please consult factory.

| | | |
|----------|---|---|
| W |  | The cable cut length includes: 5 mm of wire stripped and tinned. |
|----------|---|---|

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CONTACT DATA (Stainless Steel + Plastics)

| All Data at 20° C | Switch Model → Contact Form → | Switch 66 Form A | | | |
|---|---|-----------------------|------|------|-------|
| Contact Ratings | Conditions | Min. | Typ. | Max. | Units |
| Switching Power | Any DC combination of V & A not to exceed their individual max.'s | | | 10 | W |
| Switching Voltage | DC or peak AC | | | 200 | V |
| Switching Current | DC or peak AC | | | 0.5 | A |
| Carry Current | DC or peak AC | | | 1.25 | A |
| Static Contact Resistance | w/ 0.5 V & 10 mA | | | 150 | mΩ |
| Dynamic Contact Resistance | Measured w/ 0.5 V & 50 mA , 1.5 ms after closure | | | 200 | mΩ |
| Insulation Resistance across Contacts | 100 volts applied | 10 ¹⁰ * | | | Ω |
| Breakdown Voltage across Contact | Voltage applied for 60 sec. min. | 225* | | | VDC |
| Operation Time incl. Bounce | Measured w/ 100 % overdrive | | | 0.5 | ms |
| Release Time | Measured w/ no coil suppression | | | 0.1 | ms |
| Capacitance | at 10 kHz cross contact | | 0.2 | | pF |
| Environmental Data | | | | | |
| Shock Resistance | 1/2 sinus wave duration 11 ms | | | 50 | g |
| Vibration Resistance | From 10 - 2000 Hz | | | 20 | g |
| Ambient Temperature | 10°C/ minute max. allowable | -20 | | 85 | °C |
| Stock Temperature | 10°C/ minute max. allowable | -35 | | 85 | °C |
| Soldering Temperature | 5 sec. | | | 260 | °C |
| Please note: The indicated electrical data are maximum values and can vary downwards when using a more sensitive switch. * Insulation resistance of 10 ¹² and breakdown voltage of 480 VDC is available. ** These ranges refer to the uncut / unmodified Reed Switches described in our Reed Switch section. Consult factory if more detail is required. | | | | | |

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CONTACT DATA (only Plastics)

| All Data at 20° C | Switch Model → Contact Form → | Switch 84 Form A | | | Switch 90 Form A | | | |
|---------------------------------------|---|---------------------|------|------|---------------------|------|------|-------|
| Contact Ratings | Conditions | Min. | Typ. | Max. | Min. | Typ. | Max. | Units |
| Switching Power | Any DC combination of V & A not to exceed their individual max.'s | | | 10 | | | 10 | W |
| Switching Voltage | DC or peak AC | | | 180 | | | 175 | V |
| Switching Current | DC or peak AC | | | 0.5 | | | 0.5 | A |
| Carry Current | DC or peak AC | | | 1.5 | | | 1.0 | A |
| Static Contact Resistance | w/ 0.5 V & 10 mA | | | 150 | | | 150 | mΩ |
| Dynamic Contact Resistance | Measured w/ 0.5 V & 50 mA , 1.5 ms after closure | | | | | | | mΩ |
| Insulation Resistance across Contacts | 100 volts applied | 10 ¹² | | | 10 ⁹ | | | Ω |
| Breakdown Voltage across Contact | Voltage applied for 60 sec. min. | 200 | | | 200 | | | VDC |
| Operation Time incl. Bounce | Measured w/ 100 % overdrive | | | 0.5 | | | 0.7 | ms |
| Release Time | Measured w/ no coil suppression | | | 0.1 | | | 1.5 | ms |
| Capacitance | at 10 kHz cross contact | | 0.3 | | | 1.0 | | pF |
| Environmental Data | | | | | | | | |
| Shock Resistance | 1/2 sinus wave duration 11 ms | | | 50 | | | 30 | g |
| Vibration Resistance | From 10 - 2000 Hz | | | 20 | | | 20 | g |
| Ambient Temperature | 10°C/ minute max. allowable | -20 | | 105 | -20 | | 70 | °C |
| Stock Temperature | 10°C/ minute max. allowable | -35 | | 105 | -35 | | 70 | °C |
| Soldering Temperature | 5 sec. | | | 250 | | | 260 | °C |

Please note: The indicated electrical data are maximum values and can vary downwards when using a more sensitive switch.

* Insulation resistance of 10¹² and breakdown voltage of 480 VDC is available.

** These ranges refer to the uncut / unmodified Reed Switches described in our Reed Switch section. Consult factory if more detail is required.