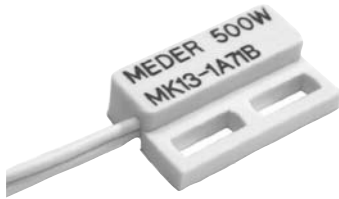


Reed Sensors with Screw Fastening Mounting Holes

[查询"MK13-1A66B-500W"供应商](#)



DESCRIPTION

MK13 sensors are magnetically operated Reed proximity switches in a case with an 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

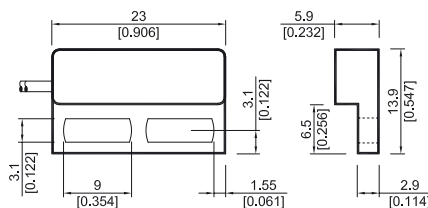
- **Position and limit switch**
Pneumatic or hydraulic actuator position
- **End motion detection for linear drive**
Indication and end travel limit switch
- **Machine industry**
End motion detection and door/flap control

FEATURES

- Form A, B, and C available
- 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]



[查询"MK13-1A66B-500W"供应商](#)

ORDER INFORMATION

| Series | Contact Form | Switch Model | Magnetic Sensitivity | Cable length (mm) | Termination |
|---------------------------------|----------------------|--------------|----------------------|-------------------|-------------|
| MK13 - | XX | XX | X - | XXX | X |
| Options | 1 Form A | 66 | B, C, D, E | 500 * | W |
| | | 84 | C, D, E | | |
| | 1 Form B 1 Form C | 90 | | | |
| * Other cable lengths available | | | | | |

Part Number Example

MK13 - 1A66 C - 500 W

1A is the contact form
66 is the switch model
C is the magnetic sensitivity
500 is the cable length (mm)
W is the termination

MAGNETIC SENSITIVITY

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

TERMINATION

For wire and termination details please consult factory.
Form C version requires 3 conductors.

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

**Reed Sensors with Screw
Fastening Mounting Holes**
[查询"MK13-1A66B-500W"供应商](#)
CONTACT DATA

| All Data at 20° C | Switch Model → Contact Form → | Switch 66 Form A | | | Switch 84 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 | | | 200 | | | 400 | V |
| Switching Current | DC or peak AC | | | 0.5 | | | 0.5 | A |
| Carry Current | DC or peak AC | | | 1.25 | | | 1.0 | A |
| Static Contact Resistance | w/ 0.5 V & 10mA | | | 150 | | | 150 | mΩ |
| Dynamic Contact Resistance | Measured w/ 0.5 V & 50mA , 1.5 ms after closure | | | 200 | | | 200 | mΩ |
| Insulation Resistance across Contacts | 100 volts applied | 10 ¹⁰ * | | | 10 ¹¹ | | | Ω |
| Breakdown Voltage across Contact | Voltage applied for 60 sec. min. | 225 * | | | 700 | | | VDC |
| Operation Time incl. Bounce | Measured w/ 100 % overdrive | | | 0.5 | | | 2.0 | ms |
| Release Time | Measured w/ no coil suppression | | | 0.1 | | | 0.1 | ms |
| Capacitance | at 10 kHz cross contact | | 0.2 | | | 0.7 | | pF |
| Contact Operation ** | | | | | | | | |
| Must Operate Condition | Steady state field | 10 | | 30 | 15 | | 30 | AT |
| Must Release Condition | Steady state field | 4 | | 27 | 6 | | 27 | AT |
| Environmental Data | | | | | | | | |
| Shock Resistance | 1/2 sinus wave duration 11 ms | | | 50 | | | 50 | g |
| Vibration Resistance | From 10 - 2000 Hz | | | 20 | | | 20 | g |
| Ambient Temperature | 10°C/ minute max. allowable | -20 | | 85 | -20 | | 85 | °C |
| Stock Temperature | 10°C/ minute max. allowable | -35 | | 85 | -35 | | 85 | °C |
| Soldering Temperature | 5 sec. dwell | | | 260 | | | 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. | | | | | | | | |

[查询"MK13-1A66B-500W"供应商](#)

CONTACT DATA

| All Data at 20° C | Switch Model → Contact Form → | Switch 90 Form B / C | | | |
|---|---|-------------------------|------|------|-------|
| Contact Ratings | Conditions | Min. | Typ. | Max. | Units |
| Switching Power | Any DC combination of V & A not to exceed their individual max.'s | | | 3 | W |
| Switching Voltage | DC or peak AC | | | 175 | V |
| Switching Current | DC or peak AC | | | 0.25 | A |
| Carry Current | DC or peak AC | | | 1.2 | A |
| Static Contact Resistance | w/ 0.5 V & 10mA | | | 150 | mΩ |
| Dynamic Contact Resistance | Measured w/ 0.5 V & 50mA , 1.5 ms after closure | | | 250 | mΩ |
| Insulation Resistance across Contacts | 100 volts applied | 10 ⁹ | | | Ω |
| Breakdown Voltage across Contact | Voltage applied for 60 sec. min. | 200 | | | VDC |
| Operation Time incl. Bounce | Measured w/ 100 % overdrive | | | 0.7 | ms |
| Release Time | Measured w/ no coil suppression | | | 1.5 | ms |
| Capacitance | at 10 kHz cross contact | | 1.0 | | pF |
| Contact Operation ** | | | | | |
| Must Operate Condition | Steady state field | 10 | | 35 | AT |
| Must Release Condition | Steady state field | 4 | | 30 | AT |
| 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. dwell | | | 260 | °C |
| Please note: The indicated electrical data are maximum values and can vary downwards when using a more sensitive switch. ** These ranges refer to the uncut / unmodified Reed Switches described in our Reed Switch section. Consult factory if more detail is required. | | | | | |