PIC
SWITCHING THE SMART WAY


# MS-217-6

Power Reed Sensor

| Electrical Characteristics | | @ 25 °C |
|---|---|---|
| Contact form | | A |
| Contact rating max. | W / VA | 50 |
| Switching voltage max. | VDC | 200 |
| | VAC | 250 |
| Switching current max. | A | 1.5 |
| Carry current max. | A | 2 |
| Breakdown voltage min. | VDC | 400 |
| Total resistance max. (initial) | mΩ | 200 |
| Insulation resistance min. | Ω | $10^{10}$ |

## Features

- Sensor with Power Reed Switch
- Not ESD sensitive
- Various sensitivity ranges available
- Customized types available

| Magnetical Characteristics (of unmodified Reed Switch) | | @ 25 °C |
|---|---|---|
| Pull in range available | AT | 25 - 40 |
| Drop out min. | AT | 5 |
| Test coil | TC | 020 |
| Test equipment tolerance | ± AT | 2 |

## Approvals

RoHS

REACH

IP67

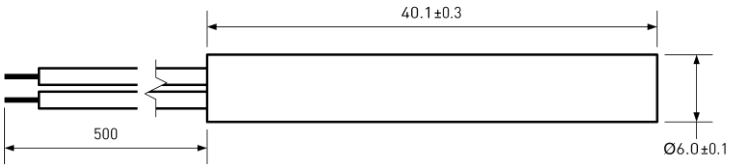
cULus

| Operating Characteristics (of unmodified Reed Switch) | | @ 25 °C |
|---|---|---|
| Switching frequency max. | Hz | 300 |
| Resonant frequency typ. | Hz | 2600 |
| Operate time max. (incl. bounce) | ms | 1 |
| Release time max. | ms | 0.4 |

| Environmental Characteristics | | |
|---|---|---|
| Operating temperature | °C | -20 to +85 |
| Vibration (50-2000 Hz) | g | 20 |
| Shock (1/2 sin 11 ms) | g | 50 |



## Dimensions in mm




## Ordering Information

| | | |
|---|---|---|
| Packing Unit | 50 | pcs |
| Weight per piece | 5.4 | g |
| Weight per package | 280 | g |
| Standard AT Ranges | | |
| | 4 = 25 to 30 | AT |
| | 5 = 30 to 35 | AT |
| | 6 = 35 to 40 | AT |

Ordering Example

MS-217-6-4 describes MS-217-6 with 25 to 30 AT.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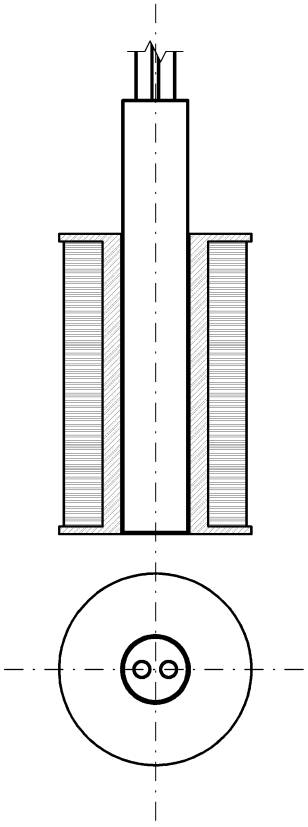
# MS-217-6

Power Reed Sensor

## Material Information

| | Material | Colour |
|---|---|---|
| Housing | ABS | black |
| Cable | UL 1007/1569, AWG 24, 4 mm stripped and tinned | black |
| Potting compound | Epoxy | black |

## Test Procedure of final Reed Sensor



Test Coil placed in vertical position

Reed Sensor aligns with bottom line

Reed Sensor centered in Test Coil

## Test Parameters

| | | |
|---|---|---|
| Test coil | | TC-093 |
| Test programs | | |
| | AT range | Test program |
| | 4 = | MS-217-6-4 |
| | 5 = | MS-217-6-5 |
| | 6 = | MS-217-6-6 |

## Remarks

When mounted onto ferromagnetic parts switching distance of MS-217-6 may reduce.
Electromagnetical influences and magnetic fields may change the switching behaviour of the sensor.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