

## MS-228M-3





## MS-228M-3

Reed Sensor M8 metal thread

| Electrical Characteristics      |        | @ 25 °C          |
|---------------------------------|--------|------------------|
| Contact form                    |        | A                |
| Contact rating max.             | W / VA | 10               |
| Switching voltage max.          | VDC    | 200              |
|                                 | VAC    | 140              |
| Switching current max.          | A      | 1                |
| Carry current max.              | A      | 1.2              |
| Breakdown voltage min.          | VDC    | 240              |
| Total resistance max. (initial) | mΩ     | 300              |
| Insulation resistance min.      | Ω      | 10 <sup>10</sup> |

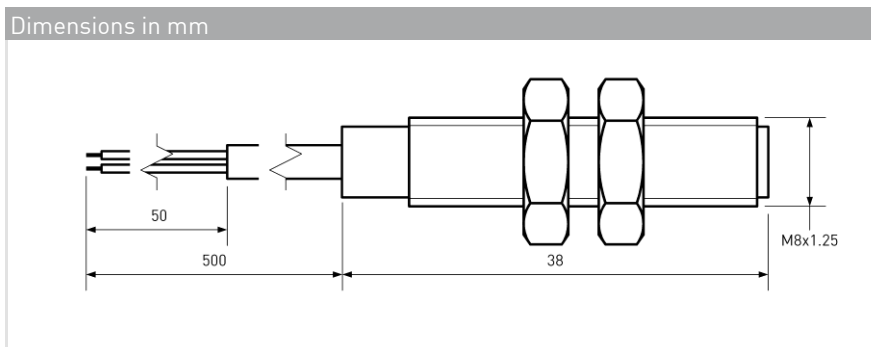
| Features                               |
|--|
| ➤ Adjustable switching point           |
| ➤ Metal housing with M8 thread         |
| ➤ Mechanically protected               |
| ➤ Various sensitivity ranges available |

| Magnetical Characteristics (of unmodified Reed Switch) |      | @ 25 °C |
|--|------|---------|
| Pull in range available                                | AT   | 10 - 25 |
| Drop out min.  | AT   | 4       |
| Test coil  | TC   | 014     |
| Test equipment tolerance                               | ± AT | 2       |

| Approvals   |
|---|
|  |
|  |
|  |

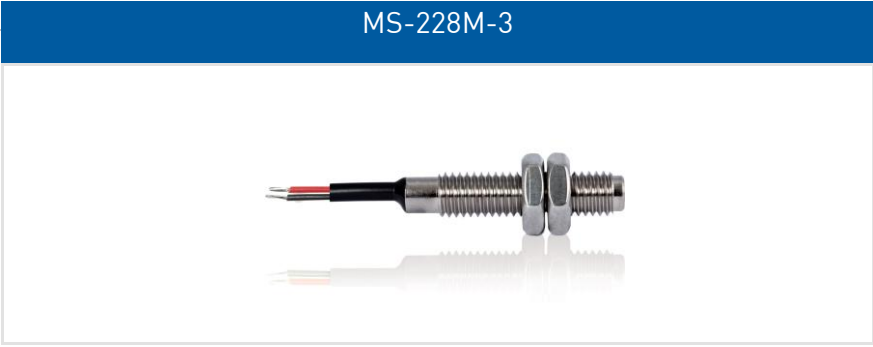
| Operating Characteristics (of unmodified Reed Switch) |    | @ 25 °C |
|---|----|---------|
| Switching frequency max.                              | Hz | 500     |
| Resonant frequency typ.                               | Hz | 4000    |
| Operate time max. (incl. bounce)                      | ms | 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  | 100        |



| Ordering Information                              |                 |
|---|-----------------|
| Packing Unit                                      | 25 pcs          |
| Weight per piece                                  | 22.5 g          |
| Weight per package                                | 580 g           |
| Standard AT Ranges                                |                 |
|   | 1 = 10 to 15 AT |
|   | 2 = 15 to 20 AT |
|   | 3 = 20 to 25 AT |
| Ordering Example                                  |                 |
| MS-228M-3-2 describes MS-228M-3 with 15 to 20 AT. |                 |

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Material Information

|                  | Material  | Colour                              |
|------------------|---|-------------------------------------|
| Housing          | Brass, Nickel plated  |                                     |
| Cable            | UL 2464, AWG 24, 50 mm dismantled, 4 mm stripped and tinned | Jacket: black, wires: black and red |
| Potting compound | Epoxy   | black                               |
| Nuts             | Brass, Nickel plated, M8, 2 pcs separately packed           |                                     |

Test Procedure of final Reed Sensor

Test Coil placed in vertical position

Reed Sensor axially centered in Test Coil

Measured without nuts

Test Parameters

|               |          |              |
|---------------|----------|--------------|
| Test coil     | TC-324   |              |
| Test programs |          |              |
|               | AT range | Test program |
|               | 1 =      | MS-228M-3-1  |
|               | 2 =      | MS-228M-3-2  |
|               | 3 =      | MS-228M-3-3  |

Remarks

When mounted onto ferromagnetic parts switching distance of MS-228M-3 may reduce.  
Electromagnetical influences and magnetic fields may change the switching behaviour of the sensor.

Matching actuator MSM-228M available as well.