

## MS-209-3





## MS-209-3

Ultraminiature Reed Sensor

| Electrical Characteristics      |        | @ 25 °C         |
|---------------------------------|--------|-----------------|
| Contact form                    |        | A               |
| Contact rating max.             | W / VA | 10              |
| Switching voltage max.          | VDC    | 150             |
|                                 | VAC    | 120             |
| Switching current max.          | A      | 0.5             |
| Carry current max.              | A      | 0.7             |
| Breakdown voltage min.          | VDC    | 200             |
| Total resistance max. (initial) | mΩ     | 300             |
| Insulation resistance min.      | Ω      | 10 <sup>9</sup> |

| Features                     |
|------------------------------|
| ▶ Small size                 |
| ▶ Customized types available |
| ▶ No power supply required   |

| Magnetical Characteristics (of unmodified Reed Switch) |      | @ 25 °C |
|--|------|---------|
| Pull in range available                                | AT   | 10 - 20 |
| Drop out min.  | AT   | 3       |
| Test coil  | TC - | 010     |
| Test equipment tolerance                               | ± AT | 2       |

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

| Operating Characteristics (of unmodified Reed Switch) |    | @ 25 °C |
|---|----|---------|
| Switching frequency max.                              | Hz | 600     |
| Resonant frequency typ.                               | Hz | 12000   |
| Operate time max. (incl. bounce)                      | ms | 0.3     |
| Release time max.                                     | ms | 0.1     |

| Environmental Characteristics |    |             |
|-------------------------------|----|-------------|
| Operating temperature         | °C | -30 to + 80 |
| Vibration (50-2000 Hz)        | g  | 20          |
| Shock (1/2 sin 11 ms)         | g  | 100         |

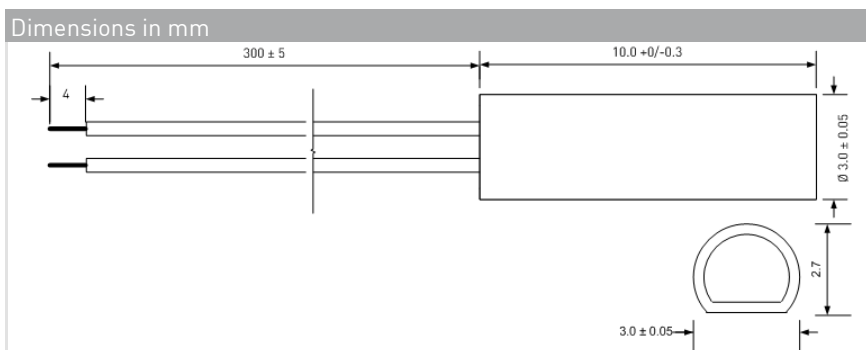
| Ordering Information |        |
|----------------------|--------|
| Packing Unit         | 50 pcs |
| Weight per piece     | 1.55 g |
| Weight per package   | 85 g   |
| Standard AT Ranges   |        |

- 1 = 10 to 15 AT
- 2 = 15 to 20 AT

Ordering Example  
MS-209-3-1 describes MS-209 with 10-15 AT

### Remarks

When mounted onto ferromagnetic parts switching distance of MS-209-3 may reduce. Electromagnetical influences and magnetic fields may change the switching behaviour of the sensor.



| Material Information |   |        |
|----------------------|---|--------|
|                      | Material                                  | Colour |
| Housing              | ABS                                       | black  |
| Cable                | UL 1685, AWG 30, 4 mm stripped and tinned | black  |
| Potting compound     | Epoxy                                     | black  |