Sensor switch
CS1-J(N, P, X) Series

### Specification

<table>
<thead>
<tr>
<th>Item Type</th>
<th>CS1-J</th>
<th>CS1-JX</th>
<th>CS1-JN</th>
<th>CS1-JP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>STSP Normally opened type</td>
<td>Transistor with contact, Normally opened type</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sensor type</td>
<td>Reed switch with contact</td>
<td>NPN type</td>
<td>PNP type</td>
<td></td>
</tr>
<tr>
<td>Operating voltage (V)</td>
<td>5 - 24V AC/DC</td>
<td>5 - 30V DC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. Switching current (mA)</td>
<td>100</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Switching rating (W)</td>
<td>Max. 10</td>
<td>Max. 6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current consumption</td>
<td>NO</td>
<td>15mA Max.</td>
<td>8mA</td>
<td></td>
</tr>
<tr>
<td>Voltage drop</td>
<td>2.5V Max. @ 100mA DC</td>
<td>0.5V Max. @ 200mA DC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cable</td>
<td>§ 3.3, 2C, Gray or resistant</td>
<td>PVC (Flame retardant)</td>
<td>§ 3.3, 2C, Black or resistant</td>
<td></td>
</tr>
<tr>
<td>Indicator</td>
<td>Red LED</td>
<td>NO</td>
<td>Red LED</td>
<td></td>
</tr>
<tr>
<td>Leakage current</td>
<td>NO</td>
<td>0.01mA Max.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sensitivity (Gauss)</td>
<td>60 - 70</td>
<td>60 - 70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. Frequency (Hz)</td>
<td>200</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shock (ms²)</td>
<td>300</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vibration (ms²)</td>
<td>50</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature range (°C)</td>
<td>-10 - 70</td>
<td>-10 - 70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protection classification</td>
<td>IP57 (NEMA)</td>
<td>IP57 (NEMA)</td>
<td></td>
<td></td>
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<tr>
<td>Protective circuit</td>
<td>NO</td>
<td>Power reverse polarity, surge suppression</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Note: Please contact us for high temperature resistant (-125 to -150°C), low temperature resistant (-60 to -25°C) and explosion-proof sensor switch.

### Ordering code

**CS1 — J X — 020**

1. Connecting way
   - C08: 8 pin quick joint, length of wire is 150mm
   - C12: 12 pin quick joint, length of wire is 150mm
   - 020: length of wire is 2m
   - 030: length of wire is 3m
   - 050: length of wire is 5m
   - 100: length of wire is 10m

### Model of sensor switch

- J: two-line magnetic spring pipe with contact normally opened
- N: three-line NPN with no contact (current flows in) normally opened
- P: three-line PNP with no contact (current flows out) normally opened
- X: two-line magnetic spring pipe with contact, without indicator light normally opened

1. Note: The quick joint that is attached at the end of wire is three-needle male joint-linear-rotary screw thread type. The female joint plug has to be ordered additionally. Please refer to PV1-49 for the specific data.

### Mounting

No installation accessories are necessary for the sensor switch of CS1-J (N, P, and X) series. It can be directly fixed onto the cylinder, which is convenient and fast.

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VI-44
Sensor switch

Joint attached to coil end of sensor switch

### Female joint for male joint

#### Ordering code

<table>
<thead>
<tr>
<th>M83F</th>
<th>4</th>
<th>B</th>
<th>02</th>
<th>PVC</th>
</tr>
</thead>
</table>

- **Joint type**
  - M83F: M3 x 1 (three needle-female joint (linear))
  - M83FL: M3 x 1 (three needle-female joint (right angle))
  - M12SF: M12 x 1 (three needle-female joint (linear))
  - M12SFL: M12 x 1 (three needle-female joint (right angle))

- **Cable OD**
  - 2.9: OD 2.9mm
  - 3.3: OD 3.3mm
  - 4.0: OD 4.0mm
  - 4.5: OD 4.5mm
  - 5.2: OD 5.2mm

- **Cable color**
  - B: Black (three core)
  - G: Grey (two core)

- **Wire length**
  - 02: Wire length is 2m
  - 03: Wire length is 3m
  - 05: Wire length is 5m
  - 10: Wire length is 10m

### Male joint attached to coil end of sensor switch

- **Wiring diagram**
  - Two needle-male joint
    - Brown (+)
    - Black (-)
  - Three needle-male joint
    - Brown (+)
    - Black (-)

- **Note:** There is no need to order it individually. What only needs to do is to choose the sensor switch with quick joint.