CS SERIES

ALL THREADED MAGNETIC SENSORS
FOR UNIVERSAL APPLICATIONS

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**General Description**

The Canfield Connector CS Series Cylindrical Threaded Mount Sensor is a rugged and compact magnetic sensor set within a miniature encapsulated Stainless Steel M8 threaded housing. Available in reed or electronic sensing, the CS sensor can sense magnets or magnetic objects in industrial machinery and mobile equipment. Typically used where greater sensing distance is required, the CS sensor changes state in the presence of a magnetic field. Electrical output for the CS is normally open, with sinking or sourcing outputs for the electronic versions. Input voltages available are 0 to 120 VAC/DC .5 Amp maximum for the reed and 5-24 VDC 0.2 Amp maximum for the electronic versions. The sensor is made of a Stainless Steel body, TPU encapsulant and has PVC wire standard and is NEMA 6. Temperature ranges are -20° to 80°C. The CS Series is proudly made in the U.S.A.

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**Dimensional Data**

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED

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**Mounting Orientation**

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### Technical Data

<table>
<thead>
<tr>
<th>Switch Type / Tech. Specs.</th>
<th>See Ordering Information³</th>
</tr>
</thead>
</table>
| Sensitivity / Orientation | Electronic: 25 Gauss Parallel  
Reed: 85 Gauss Parallel  
(measured from sensor surface) |
| Shock                    | Up to 30G (11mS) Reed Only  
(not applicable for electronics) |
| Vibration                | Up to 20G (10-55 Hz) Reed only |
| Materials                | Cable: PVC  
House: 300 Series Stainless Steel, TPU |
| Temperature Range        | -20° to +80°C               |
| Environmental Protection | Designed for IP 67 / NEMA 6  |
| Cable Diameter            | 2.7mm                      |
| Wire Gauge                | 24 AWG standard             |

### Mating Cordsets / Pin Configuration

8mm female molded locking connectors

<table>
<thead>
<tr>
<th>Brown = Pin 1</th>
<th>Blue = Pin 3</th>
<th>Black = Pin 4</th>
</tr>
</thead>
</table>

Order part number

RC08S-F0M030120 (2m length)  
RC08S-F0M030150 (5m length)

12mm female molded locking connector

<table>
<thead>
<tr>
<th>Brown = Pin 1</th>
<th>Blue = Pin 3</th>
<th>Black = Pin 4</th>
</tr>
</thead>
</table>

Order part number

RC12S-F0M030120 (2m length)  
RC12S-F0M030150 (5m length)

### Ordering Information

**Connection Options**

0 - 9 ft PVC cable  
3 - 8mm quick connect male pigtail*  
5 - 12mm quick connect male pigtail*  

*Mates with cordsets shown above

**Special Packaging**

A - Bulk  
G - Individually Bagged

### Switch Type / Tech. Specs.

<table>
<thead>
<tr>
<th>Switch⁷ Type</th>
<th>Description</th>
<th>Function</th>
<th>Switching Voltage</th>
<th>Switching Current</th>
<th>Switching Power</th>
<th>Voltage Drop</th>
<th>Magnetic Sensitivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Reed Switch</td>
<td>Normally Open SPST</td>
<td>0 - 120V AC/DC 50/60 Hz</td>
<td>0.5 Amps Max.</td>
<td>5 Watts Max.</td>
<td>0 Volts</td>
<td>85 Ga.</td>
</tr>
<tr>
<td>31</td>
<td>Electronic for Reed Magnet, No LED &amp; Sourcing</td>
<td>Normally Open PNP</td>
<td>5 - 24 VDC</td>
<td>0.2 Amps Max.</td>
<td>4.8 Watts Max.</td>
<td>1.0 Volts</td>
<td>25 Ga.</td>
</tr>
<tr>
<td>32</td>
<td>Electronic for Reed Magnet, No LED &amp; Sinking</td>
<td>Normally Open NPN</td>
<td>5 - 24 VDC</td>
<td>0.2 Amps Max.</td>
<td>4.8 Watts Max.</td>
<td>1.0 Volts</td>
<td>25 Ga.</td>
</tr>
</tbody>
</table>

### Ordering Example:

CSM0810-001-0A  
9 ft. PVC cable, Reed Switch, Normally Open, 0-120V AC/DC 50/60 Hz, Bulk Packaged.