



**canfield  
connector**

**CS SERIES**  
ALL THREADED  
MAGNETIC SENSORS FOR  
UNIVERSAL APPLICATIONS

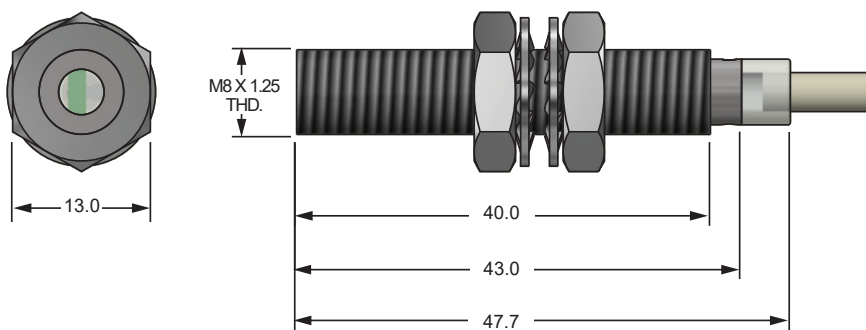
## GENERAL DESCRIPTION

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.



## DIMENSIONAL DATA

All dimensions are in millimeters unless otherwise noted.

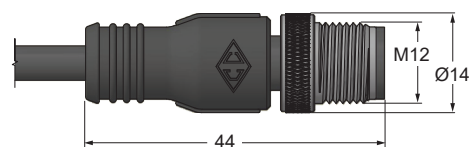


## CONNECTION OPTIONS

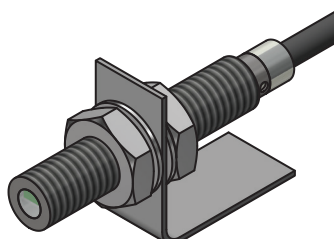
**8mm**



**12mm**



## MOUNTING ORIENTATION



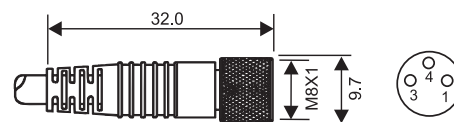


## TECHNICAL DATA

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

### (ADDITIONAL) MATING CORDSETS / PIN CONFIGURATION

#### 8mm female molded locking connector



Brown = Pin 1

Blue = Pin 3

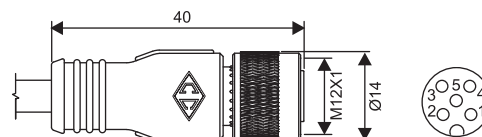
Black = Pin 4

#### Order P/N:

RC08-AFM030-0120C10A (2m length)

RC08-AFM030-0150C10A (5m length)

#### 12mm female molded locking connector (3 pole) 250VAC/DC 4 Amps max.



Brown = Pin 1

Blue = Pin 3

Black = Pin 4

N/C = Pin 2

N/C = Pin 5

#### Order P/N:

RC12-AFM030-0120C10A (2m length)

RC12-AFM030-0150C10A (5m length)

## ORDERING INFORMATION

CSM0810 -    - 0

#### 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

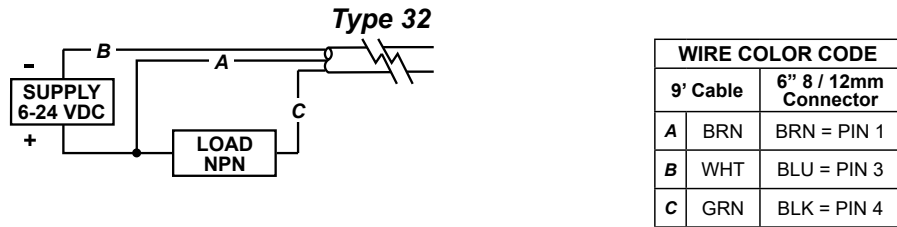
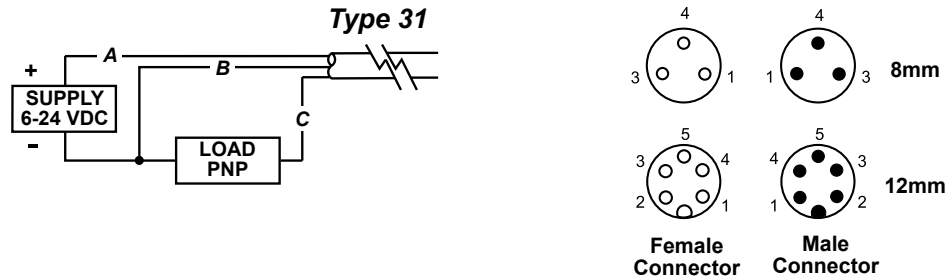
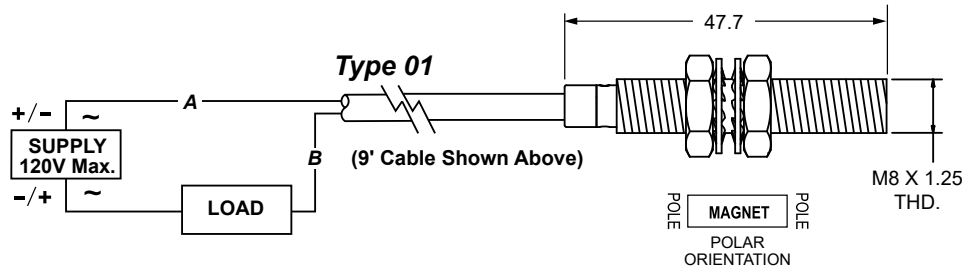
Switch <sup>†</sup> Type	Description	Function	Switching Voltage	Switching Current	Switching Power	Voltage Drop	Magnetic Sensitivity
01	Reed Switch	Normally Open SPST	0 - 120V AC/DC 50/60 Hz	0.5 Amps Max.	5 Watts Max.	0 Volts	85 Ga.
31	Electronic for Reed Magnet, No LED & Sourcing	Normally Open PNP	5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

#### Ordering Example: CSM0810-001-0A

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

## SERIES CS TYPE 01, 31 & 32

### Wiring Diagram

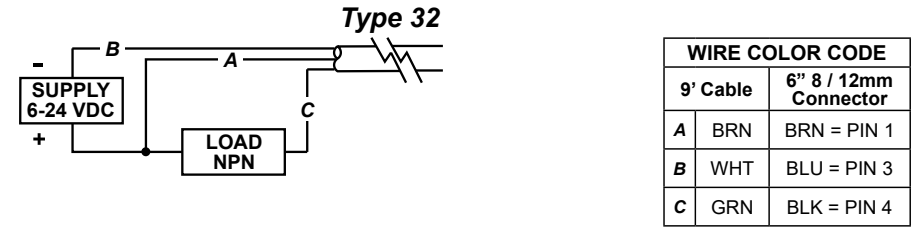
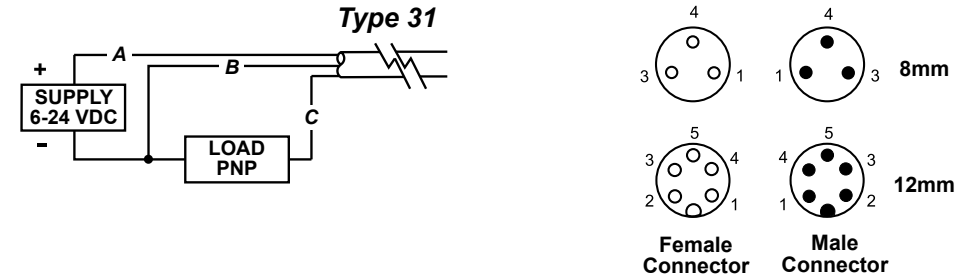
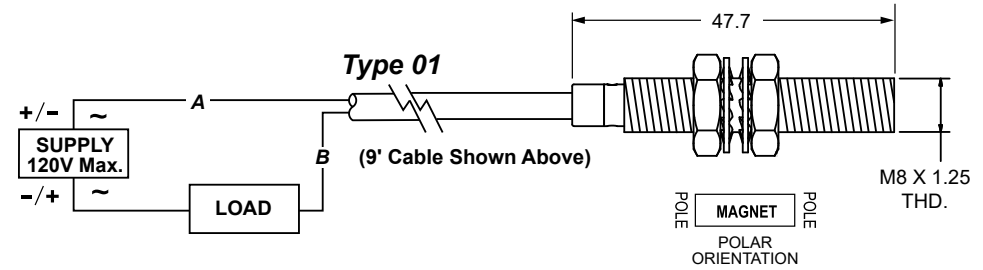


Switch Type	Description	Function	Switching Voltage	Switching Current	Switching Power	Voltage Drop	Magnetic Sensitivity
01	Reed Switch	Normally Open SPST	0 - 120V AC/DC 50/60 Hz	0.5 Amps Max.	5 watts Max.	0 Volts	85 Ga.
31	Electronic for Reed Magnet, No LED & Sourcing	Normally Open PNP	5 - 24 VDC	0.2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

Minimum Gauss rating required for proper operation as measured at end of sensor.  
Power supply polarity must be observed for proper operation (except Type 01).  
**WARNING:** Do not exceed ratings. Permanent damage to sensor may occur.

## SERIES CS TYPE 01, 31 & 32

### Wiring Diagram



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

Minimum Gauss rating required for proper operation as measured at end of sensor.  
Power supply polarity must be observed for proper operation (except Type 01).  
**WARNING:** Do not exceed ratings. Permanent damage to sensor may occur.