

canfield connector

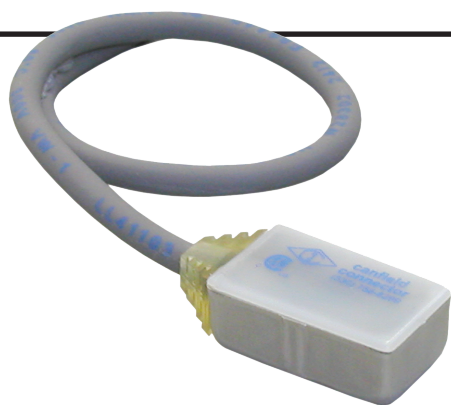
8510 Foxwood Court
Youngstown, Ohio 44514
(330) 758-8299 Fax: (330) 758-8912
www.canfieldconnector.com

SERIES 8000

REED & ELECTRONIC SENSORS FOR ROUND, TIE-ROD, OR EXTRUDED CYLINDERS

General Description

The Canfield Connector Series 8000 Reed and Electronic sensors are compact units designed for sensing applications on round cylinders from 9/16" - 4" and tie-rod pneumatic cylinders from 3/4" - 8" bore. These sensors offer a wide voltage range from 0-120 VAC/VDC 50/60 Hz and high current capacity up to 0.5 Amps. They include high intensity indicator lights and a wide viewing angle. The sensor's small package can fit easily on the smallest cylinder without appearing too large. The Series 8000's design promotes ease of installation with a tight fit. Options include 9ft. PVC or 8mm quick connect male pigtail.



Features

- Extremely consistent repeatability
- Compact design
- Surge suppression available (standard on electronic)
- Reverse polarity protection
- Wide voltage range
- Compatible with IS (Intrinsically Safe) barriers
- High intensity light (LED) standard on most models
- Compatible with most corrosive and washdown applications
- High current capacity for small size (up to 10 times the competition)
- Both reed and electronic versions work with the same (reed) magnet
- Encapsulated circuit for wet environment

Technical Data

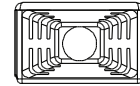
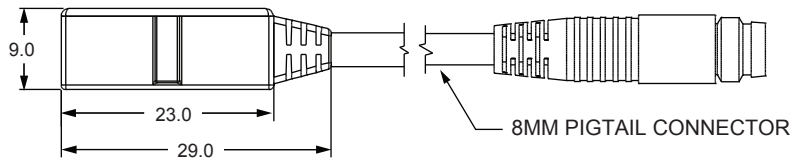
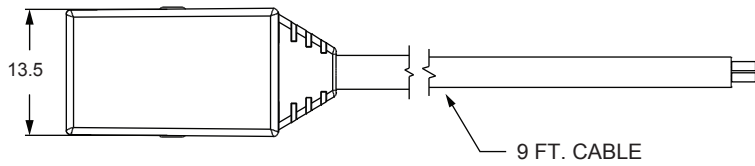
- Temperature Range: Operational from -20° to +80°C
- Shock: Operational up to 30G (11 ms.) reeds only. Not applicable for electronic
- Vibration: Operational up to 20G (10 - 55 Hz) reeds only. Not applicable for electronic
- Sensitivity and orientation: 85 gauss parallel (standard minimum required for proper operation, as measured on sensor surface. Size of sensing area depends on size and strength of magnet and thickness of cylinder wall)
- Most versions designed to meet NEMA 6/IP67 specifications
- Note: Not compatible with alcohol based fluids. Contact factory for suitable replacement



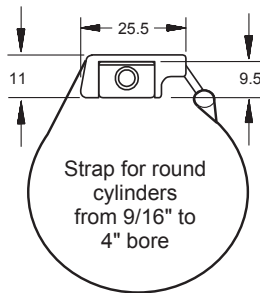
Consult factory for available versions listed by Canadian Standards Association for use with certified electrical equipment.

Dimensional Data

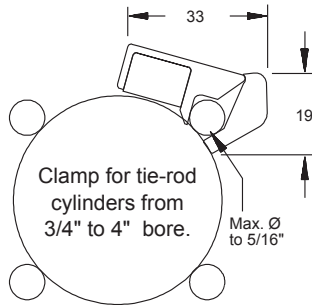
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED



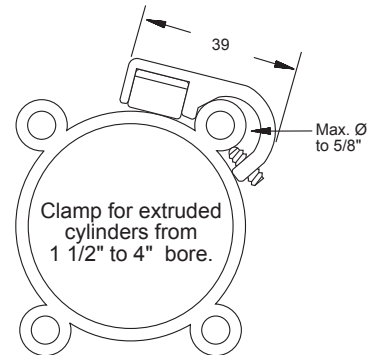
Clamp Styles



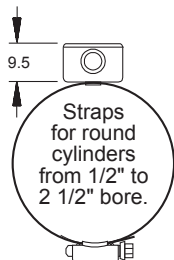
Standard Round Cylinder Universal Clamp (Style 0)



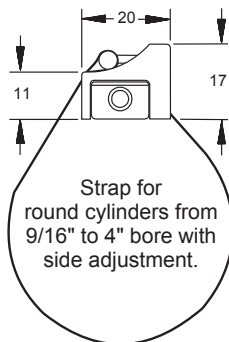
Standard Tie-Rod Cylinder Clamp (Style 2)



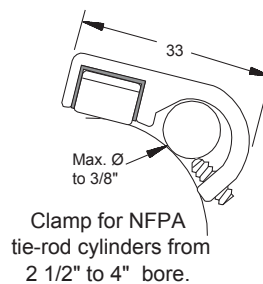
Extruded Cylinder Clamp (Style 3)



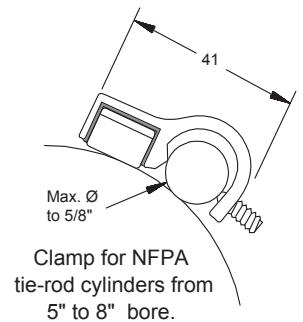
Low-Profile Round Cylinder Clamp (Style 5-9)



Side Adjust Round Cylinder Clamp (Style A)



NFPA Tie-Rod Cylinder Clamp (Style B)



NFPA Tie-Rod Cylinder Clamp (Style C)

Ordering Information

8 1 0 - 0 0 -

Clamp Styles

- 0 - Universal round cylinder clamp
- 1 - No clamp
- 2 - Universal tie-rod clamp
- 3 - Extruded cylinder clamp
- 5 - Clamp loop / no clamp***
- 6 - Clamp loop / 1/2" - 3/4" clamp
- 7 - Clamp loop / 1" - 1 1/2" clamp
- 8 - Clamp loop / 1 1/2" - 2" clamp
- 9 - Clamp loop / 2" - 2 1/2" clamp
- A - Side adjust round cylinder clamp
- B - NFPA 2 1/2" - 4" tie-rod cylinder clamp
- C - NFPA 5" - 8" tie-rod cylinder clamp

***Uses 5/16" wide band clamp

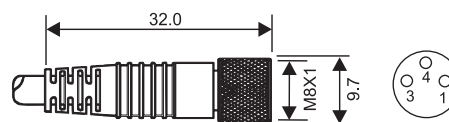
Connection Options

- 0 - 9 ft PVC cable
- 1 - 8mm quick connect male pigtail*

*Mates with cordsets shown at right.

Mating Cordsets

8mm female molded locking connectors



(for sensor types 01, 02, 04, 31, 32)

Brown = Pin 1
Blue = Pin 3
Black = Pin 4

Order part number

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

Type	Description	Function	Switching Voltage	Switching Current	Switching Power	Voltage Drop	Magnetic Sensitivity
01	Reed Switch	Normally Open	0 - 120V AC/DC	0.5 Amps Max.	10 watts Max.	0 Volts	85 Ga.
02	Reed Switch & LED	SPST Normally Open	5 - 120V AC/DC	0.025 Amps Max. 0.001 Amps Min.	3 watts Max.	6.0 Volts	85 Ga.
04	Reed Switch, LED & MOV	SPST Normally Open	5 - 120V AC/DC	0.5 Amps Max. 0.005 Amps Min.	10 watts Max.	3.0 Volts	85 Ga.
31	Electronic for Reed Magnet, LED & Sourcing	Normally Open (PNP)	6 - 24 VDC	0.3 Amps Max.	7.2 watts Max.	.5 Volts	85 Ga.
32	Electronic for Reed Magnet, LED & Sinking	Normally Open (NPN)	6 - 24 VDC	0.3 Amps Max.	7.2 watts Max.	.5 Volts	85 Ga.



SERIES 8000

Can-Pak Part Number	Qty	Function Normally Open	Switch Type
CP-810-000-002-010	10	SPST	Reed
CP-810-200-002-010	10	PNP	Reed
CP-810-000-102-010	10	NPN	Reed
CP-810-200-102-010	10	SPST	Reed

Ordering Example:

810-000-002

Universal round cylinder clamp, 9ft PVC cable, reed switch with LED, SPST, normally open, 5 - 120V AC/DC