canfield connector

Magnetic ◆ Proximity ◆ Angle ◆ Tilt

SENSORS

www.canfieldconnector.com

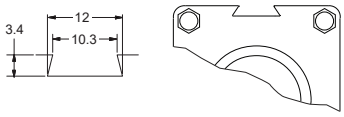
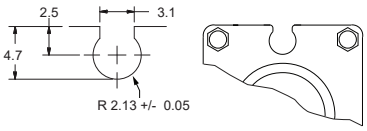
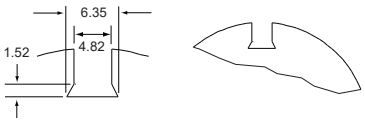
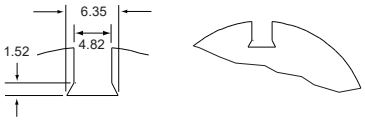
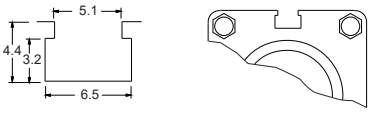
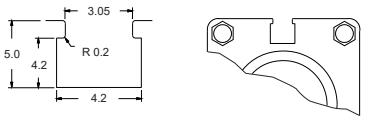
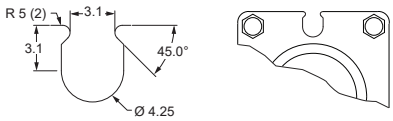
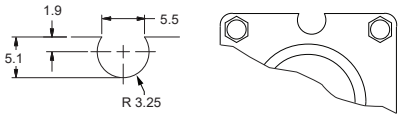
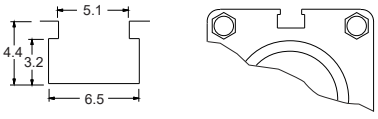
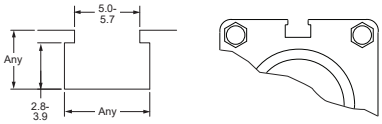
Table of Contents

Introductory Information

Cylinder Proximity and Inclinometer Sensors

Additional Information

Sensor / Groove Cross Reference Chart

8WS Dovetail			Numatics
9C Round Keyway			DE-STA-CO Robohand SMC Bimba Compact Air Fabco
9D Universal Dovetail			Fabco Numatics Rotomation
9E Universal Dovetail			Fabco Numatics Rotomation
9F 4mm T-Slot			Fabco Festo Numatics Rotomation
9H 4.2mm T-Slot			4x4 Groove
9K 4.2mm U Groove			Mindman Koganei
9M50 6.5mm D Groove			Norgren
9Q Universal T-Slot			Parker Fabco Festo Numatics Rotomation
9U Universal T-Slot			Fabco Festo Numatics Parker SMC

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REED OR ELECTRONIC? *Which type of sensor should I use*

The type of sensor that is best for a particular application depends on the operating parameters and cost related issues. Canfield Connector is proud to offer the industry's best value in Reed and Electronic Sensors. However if our sensors are misapplied, they could fail prematurely. Therefore, give careful consideration when selecting the proper proximity sensor for your application. We have prepared this catalog with all the necessary information in order to aid in this decision. If you require more assistance or have any questions, please feel free to call. Our customer service and engineering staff will be happy to assist you. *For technical assistance, please call - (330) 758-8299 or visit our web site at www.canfieldconnec*tor.com

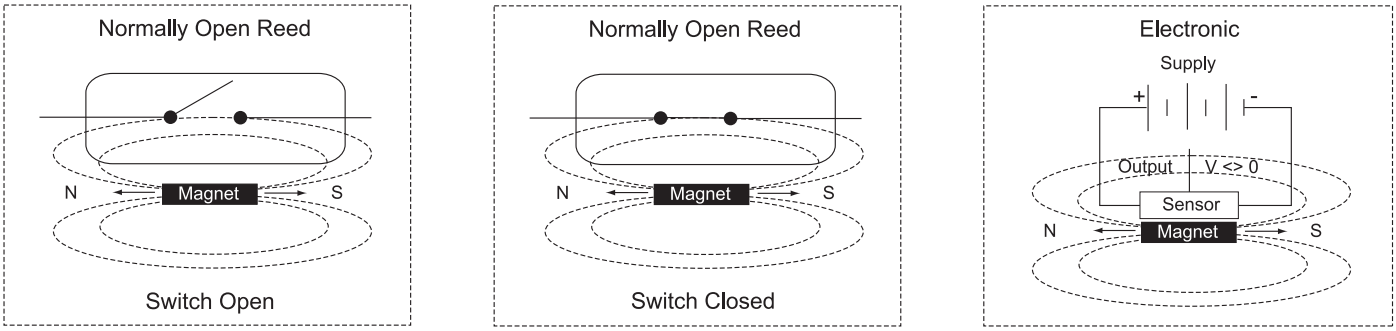
Reed Switch Sensors:
If initial cost and versatility are most important, then reed switch sensors should be considered. For example the 7000 Series Type 04 reed switch will operate from 5 to 240 volts AC or DC. Generally, one switch can be stocked to cover a large majority of common applications. Please note, reed sensors do to work well with inrush surge currents and transients (common to inductive & capacitive loads; i.e. relays, coils & long wire runs). If inrush surge currents and transients must be accommodated, switch Types 21 - 29 may be specified. These parameters should be given careful consideration when selecting a proximity device that will be best suited for an application.

Electronic Sensors:
In general, if longevity is a major concern, electronic sensors should be used whenever they fit within the operating parameters specified for a given application. They should receive special attention when high cycle rates are required. If electronic sensors are used within their operating range they will always outperform and out last mechanical reed sensors. The initial added cost associated with a electronic sensor will be outweighed should the application require high cycle rates.

PRINCIPLES OF OPERATION FOR MAGNETIC PROXIMITY SWITCHES

Reed / Electronic Switch Working Principle

Our reed switch sensors contain hermetically sealed reed elements (mechanical contacts) which can be open or closed in their normal state depending on the version selected. When a magnetic field moves within proximity of the switch, magnetism is induced into the leads and forces the contacts to change state (open if normally closed or closed if normally open). Typically used with air cylinders that are built with internal magnetic pistons.



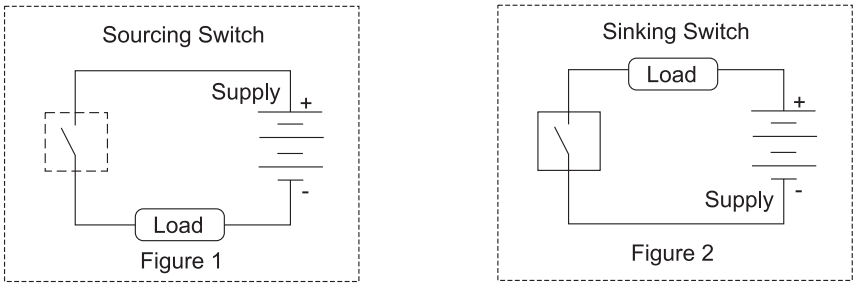
Note: Arrows indicate movement of magnet in relation to switch surface.

Sinking (NPN) vs. Sourcing (PNP)

Electronic switches are available in Sinking or Sourcing versions. The basic difference between these two ways of solid state switching is as follows:

The Sourcing method connects or switches one side of the load to the positive (+) side of the supply. The negative (-) side is connected directly to the other side of the load as shown in figure 1. PNP is the acronym used to describe the transistor that performs this type of switching in a solid state sensor.

The Sinking method connects or switches one side of the load to the negative (-) side of the supply. The positive (+) side is connected directly to the other side of the load as shown in figure 2. NPN is the acronym used to describe the transistor that performs this type of switching in a solid state sensor.



PROXIMITY SENSOR TYPES

Reed Switch Sensors:

Type 01 & 05 -

These two sensors are the most basic types. They are made up of a reed element only. The Type 01 is single pole, single throw, normally open and the Type 05 is single pole, single throw, normally closed. These sensors act as an in line switch which is actuated in a magnetic field, with no minimum current requirement.

Features:
- Lowest cost
- Non polarity dependent
- CSA versions available
- AC or DC operation
- Zero leakage current
- High power capacity
- Nema 6 versions available

Type 02 and 04 & 09 -

The Type 02 is current limiting and is single pole, single throw, normally open. The Type 04 is single pole, single throw, normally open and Type 09 is single pole, single throw, normally closed. They act as an in line switch which is actuated in a magnetic field. These sensors also include an LED indicator and surge suppression. Surge suppression helps to extend the life of the sensor when it is used to switch higher current loads and / or inductive loads. The Type 04 & 09 are similar to the Type 01 & 05, in that they perform the same function.

Features:
- Lowest cost
- Polarity protection
- CSA versions available
- AC or DC operation
- Zero leakage current
- LED indicator
- High power capacity
- Nema 6 versions available

Type 06 -

This sensor is a reed type sensor which uses a single pole, double throw element. This enables the switching of two separate loads. One side of the switch is normally closed and the other is normally open. This sensor also included an LED indicator which is connected to the normally open side of the switch. The LED indicator operates when the normally open side is closed with a minimum 5mA current flowing through the switch and a typical 3 volt drop.

Features:
- AC or DC operation
- High power capacity
- Zero leakage current
- CSA versions available
- LED indicator on normally open
- Nema 6 versions available

Type 21 & 25 and 23, 24 & 29 -

These sensors are designed specifically to switch high power AC loads (including inductive loads) and loads with high transient or inrush currents, although they are not limited to these applications. These sensor types all use a reed element to sense a magnetic field and a triac to drive the output, and include standard surge suppression. This configuration provides excellent longevity even under the most demanding conditions. The Type 21 & 25 utilize a two wired switch has no LED and Types 23, 24 & 29 utilize a three wired switch with LED.

Features:
- Solid state triac output = long life
- High power capacity
- CSA versions available
- Low voltage drop
- Resistant to current inrush
- Zero leakage current
- Nema 6 versions available

Electronic Sensors:

Type 15 & 16 -

These two sensors use magnetoresistive elements with no magnetic polarity. They are 100% solid state, and have no moving parts, resulting in extremely long life expectancy. These virtually vibration and shock proof sensors utilize a rugged triac to switch power convenient AC voltage (common to reed switches) combined with the reliability of solid state technology (common to electronic switches).

Features:
- Solid state circuitry = long life
- LED indicator
- Resistant to current inrush
- Low voltage drop
- CSA versions available
- Nema 6 versions available
- AC operation
- Resistant to shock and vibration
- No minimum current to operate

Type 31 & 32 -

These sensors use magnetoresistive elements with no magnetic polarity. They are 100% solid state, and have no moving parts, resulting in extremely long life expectancy. They are designed to operate within 6 to 24V DC, and are available in two configurations: NPN (Sinking) output and PNP (Sourcing) output. Both include an indicator light which illuminates when the switch is actuated. No minimum load current and low voltage drop make them ideal for use with programmable controllers.

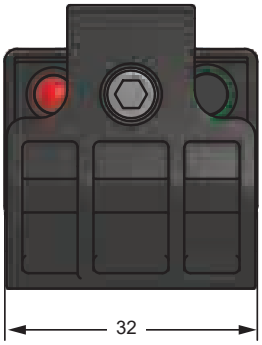
Features:
- Solid state circuitry = long life
- LED indicator
- Resistant to current inrush
- Low voltage drop
- CSA versions available
- Nema 6 versions available
- No minimum current to operate
- High power capacity
- Highly shock and vibration resistant

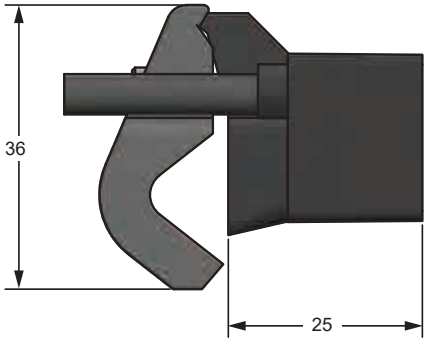
GENERAL DESCRIPTION

The Canfield 7000 Series proximity sensors are used to sense position on cylinders. They accommodate 2 to 8 inch bore tie rod cylinders or 3/4 to 4 inch round cylinders. This proven design is rugged yet cost effective. The Series 7000 boasts the largest number of custom circuits to match applications found in the market. Examples include; 1 or 4 Amp reed switches, normally open, normally closed or SPDT switch types, reed or electronic sensing elements in the same package style, and the industry's first 120 VAC Hall sensor. A wide range of enclosures and connector options are available. To reduce stocking requirements, two clamp options feature a self-adjusting clamp for NFPA and other tie rod cylinders from 2 to 8 inch bore. Another clamp option features a band clamp from 3/4 to 4 inch round cylinders.

DIMENSIONAL DATA

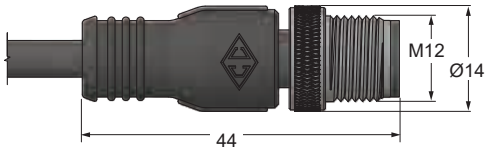
All dimensions are in millimeters unless otherwise noted.





CONNECTION OPTION

12mm



MOUNTING / CLAMP STYLES

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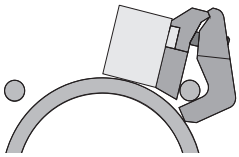
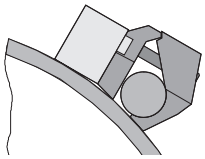


Clamp for NFPA
tie-rod cylinders
Universal 2" to 6" bore.

STYLE: 9



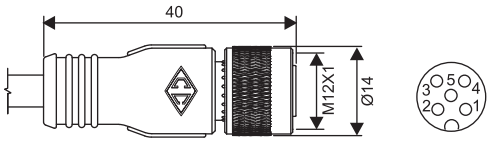
Clamp for NFPA
tie-rod cylinders
6" to 8" bore.

TECHNICAL DATA

Switch Type / Tech. Specs.	See Ordering Information†
Sensitivity / Orientation	Reed / Electronic: 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: PEI, PA
Temperature Range	-20° to +80°C
Environmental Protection	Designed for IP 67 / NEMA 6
Cable Diameter	5.1mm
Wire Gauge	22 AWG standard

(ADDITIONAL) MATING CORDSETS / CONFIGURATION

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

710-□00-□□□

Mounting / Clamp Style
0 - Universal tie rod clamp 2" to 6" bore
9 - 5/8" tie rod clamp 6" to 8" bore

Connector Style
0 - Standard cable module (9 ft)
5 - 12mm quick connect male*
**Mates with cordsets shown on previous page*

This series is available in CAN-PAK Quick-Ship Bulk Packs

Switch† Type	Description	Function	Switching Voltage	Switching Current	Switching Power	Voltage Drop
01	Reed Switch, 2 Wire	Normally Open SPST	0 - 240V AC/DC 50/60 Hz	1 Amp max.	30 Watts max.	0 Volts
04	Reed Switch, MOV, Red LED, 2 Wire	Normally Open SPST	5 - 240V AC/DC 50/60 Hz	1 Amp max. .005 Amps min.	30 Watts max.	3 Volts
05	Reed Switch, 2 Wire	Normally Closed SPST	0 - 120V AC/DC 50/60 Hz	1 Amp max.	20 Watts max.	0 Volts
06	Reed Switch, Red LED, 3 Wire	Single Pole, Double Throw	5 - 120V AC/DC 50/60 Hz	1 Amp max. .005 Amps min.	20 Watts max.	3 Volts/load1 0 Volts/load2
09	Reed Switch, MOV, Red LED, 2 Wire	Normally Closed SPST	5 - 120V AC/DC 50/60 Hz	1 Amp max. .005 Amps min.	20 Watts max.	3 Volts
15	AC Electronic Sensor for Reed Magnets, Red LED, 3 Wire	Normally Open TRIAC output	12-24 VAC	600 mA max. 5 Amps Inrush	15 Watts max.	1 Volt
16	AC Electronic Sensor for Reed Magnets, Red LED, 3 Wire	Normally Open TRIAC output	120 VAC	600 mA max. 5 Amps Inrush	72 Watts max.	1 Volt
21	Reed Switch, MOV, 2 Wire	Normally Open TRIAC output	10 - 240 VAC 50/60 Hz	4 Amps max. 50 Amps Inrush	100 Watts max.	1 Volt
23	Reed Switch, MOV, Red LED, 3 Wire	Normally Open TRIAC output	10 - 50 VAC 50/60 Hz	4 Amps max. 50 Amps Inrush .005 Amps min.	100 Watts max.	1 Volt
24	Reed Switch, MOV, Red LED, 3 Wire	Normally Open TRIAC output	24 - 240 VAC 50/60 Hz	4 Amps max. 50 Amps Inrush .005 Amps min.	100 Watts max.	1 Volt
25	Reed Switch, MOV, 2 Wire	Normally Closed TRIAC output	10-120 VAC 50/60 Hz	4 Amps max. 50 Amps Inrush	100 Watts max.	1 Volt
29	Reed Switch, MOV, Red LED, 3 Wire	Normally Closed TRIAC Output	10-120 VAC 50/60 Hz	4 Amps max. 50 Amps Inrush .005 Amps min.	100 Watts max.	1 Volts
31	Electronic for Reed Magnet, Red LED & Sourcing, 3 Wire	Normally Open PNP	6 - 24 VDC	1 Amp max.	24 Watts max.	0.5 Volts
32	Electronic for Reed Magnet, Red LED & Sinking, 3 Wire	Normally Open NPN	6 - 24 VDC	1 Amp max.	24 Watts max.	0.5 Volts

Each switch supplied with clamp assembly

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

Ordering Example: 710-000-004

Universal tie rod clamp, Standard cable, reed switch, lighted, MOV surge suppression, normally open, 5 - 240V AC/DC 50/60 Hz

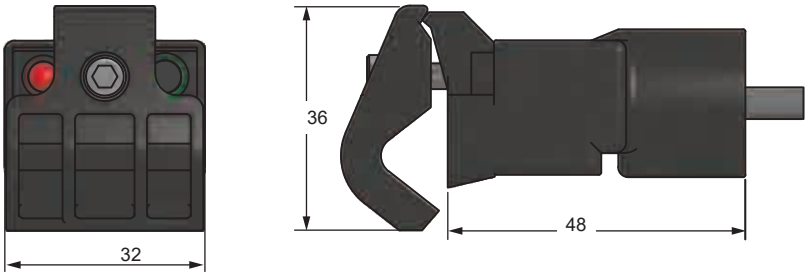
GENERAL DESCRIPTION

The Canfield Connector 7C Series proximity sensors are used to sense position on pneumatic actuators equipped with magnetic pistons from 2" to 8" bore. This proven design is rugged yet cost effective. All switches feature a self-adjusting clamp that grips standard NFPA and custom cylinders eliminating stocking requirements of many clamps for different bore sizes. The Series 7C boasts the largest number of custom circuits to match applications found in the market. Examples include; 1 or 4 Amp reed switches, normally open, normally closed or SPDT switch types, reed or electronic sensing elements in the same package style, not to mention the industry's first 120 VAC Hall sensor. The low cost 7C features a ½" conduit hub and wire lead to meet stringent electrical codes in certain regions and applications.

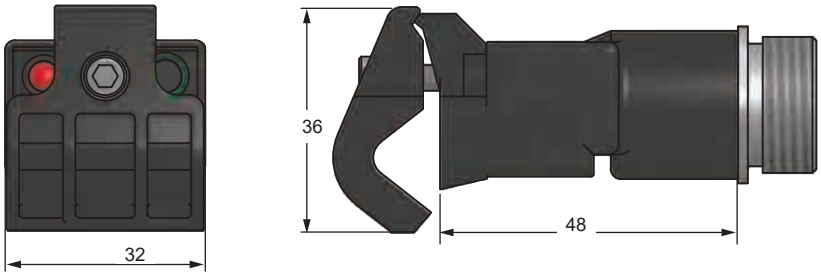
DIMENSIONAL DATA

All dimensions are in millimeters unless otherwise noted.

1/2" CONDUIT

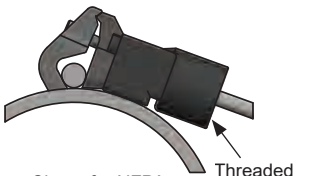


3 / 5 PIN AUTOMOTIVE

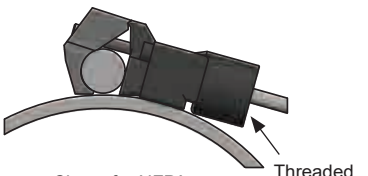


MOUNTING / CLAMP STYLES

STYLE: 0



STYLE: 9



TECHNICAL DATA

Switch Type / Tech. Specs.	See Ordering Information†
Sensitivity / Orientation	Reed / Electronic: 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: PEI, PA
Temperature Range	-20° to +80°C
Environmental Protection	Designed for IP 67 / NEMA 6
Cable Diameter	5.1mm
Wire Gauge	22 AWG standard

PIN CONFIGURATION

Automotive Connector

STYLE: 3
3 Pin

STYLE: 4
5 Pin

ORDERING INFORMATION

7 C1 0 - □ 0 0 - □ □ □

Mounting / Clamp Style
0 - Universal tie rod clamp 2" to 6" bore
9 - 5/8" tie rod clamp 6" to 8" bore

Connector Style
2 - 1/2" Conduit Hub
3 - 3 Pin Automotive Connector
4 - 5 Pin Automotive Connector

Switch† Type	Description	Function	Switching Voltage	Switching Current	Switching Power	Voltage Drop
01	Reed Switch, 2 Wire	Normally Open SPST	0 - 240V AC/DC 50/60 Hz	1 Amp max.	30 Watts max.	0 Volts
04	Reed Switch, MOV, Red LED, 2 Wire	Normally Open SPST	5 - 240V AC/DC 50/60 Hz	1 Amp max. .005 Amps min.	30 Watts max.	3 Volts
05	Reed Switch, 2 Wire	Normally Closed SPST	0 - 120V AC/DC 50/60 Hz	1 Amp max.	20 Watts max.	0 Volts
06	Reed Switch, Red LED, 3 Wire	Single Pole, Double Throw	5 - 120V AC/DC 50/60 Hz	1 Amp max. .005 Amps min.	20 Watts max.	3Volts/load1 0Volts/load2
09	Reed Switch, MOV, Red LED, 2 Wire	Normally Closed SPST	5 - 120V AC/DC 50/60 Hz	1 Amp max. .005 Amps min.	20 Watts max.	3 Volts
15	AC Electronic Sensor for Reed Magnets, Red LED, 3 Wire	Normally Open TRIAC output	12-24 VAC	600 mA max. 5 Amps Inrush	15 Watts max.	1 Volt
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21	Reed Switch, MOV, 2 Wire	Normally Open TRIAC output	10 - 240 VAC 50/60 Hz	4 Amps max. 50 Amps Inrush	100 Watts max.	1 Volt
23	Reed Switch, MOV, Red LED, 3 Wire	Normally Open TRIAC output	10 - 50 VAC 50/60 Hz	4 Amps max. 50 Amps Inrush .005 Amps min.	100 Watts max.	1 Volt
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29	Reed Switch, MOV, Red LED, 3 Wire	Normally Closed TRIAC Output	10-120 VAC 50/60 Hz	4 Amps max. 50 Amps Inrush .005 Amps min.	100 Watts max.	1 Volts
31	Electronic for Reed Magnet, Red LED & Sourcing, 3 Wire	Normally Open PNP	6 - 24 VDC	1 Amp max.	24 Watts max.	0.5 Volts
32	Electronic for Reed Magnet, Red LED & Sinking, 3 Wire	Normally Open NPN	6 - 24 VDC	1 Amp max.	24 Watts max.	0.5 Volts

Ordering Example: 7C10-000-204

Universal tie rod clamp, 1/2" conduit hub, reed switch, lighted, MOV surge suppression, normally open, 5 - 240V AC/DC 50/60 Hz

canfield connector

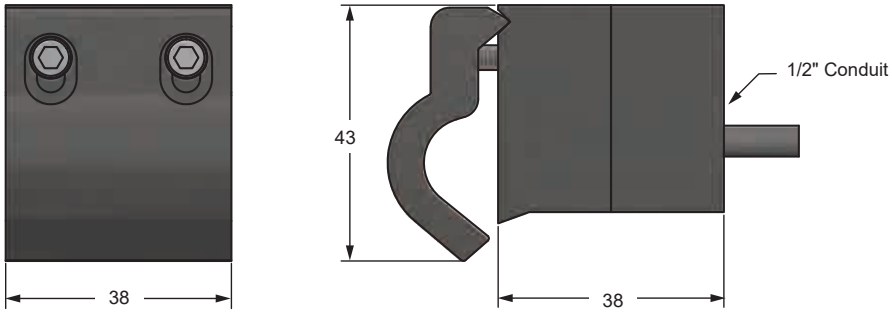
7GL SERIES
GENERAL LOCATION MAGNETIC
PROXIMITY SENSORS
FOR TIE ROD CYLINDERS

GENERAL DESCRIPTION

The Canfield Connector 7GL is an expansion of the popular Series 7000 “floating” clamp design, which adapts to NFPA tie rod linear actuators with 2 to 8 inch bore. This rugged magnetic proximity sensor can sense actuator position in stringent, general location applications. The switch features a robust, aircraft aluminum body, epoxy-filled, vibration and shock resistant, electronic circuit. Available in a normally open contact, the 7GL can switch current up to .5 Amps and has a voltage range of 0-120VAC/VDC 50/60 Hz.

DIMENSIONAL DATA

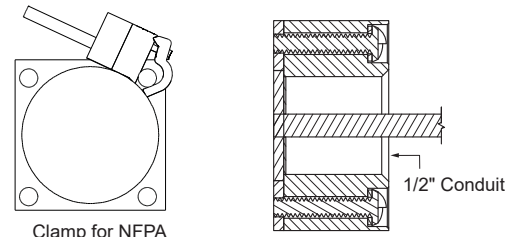
All dimensions are in millimeters unless otherwise noted.



TECHNICAL DATA

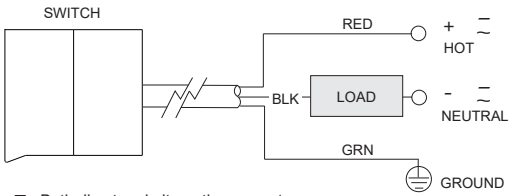
Switch Type	S.P.S.T., Normally Open, Reed
Operating Voltage	0-120 V AC/DC 50/60 Hz
Load Max.	10W, Resistive only
Current Max.	0.5A
Response Time	On: 0.5ms Off: 0.1ms
Sensitivity / Orientation	85 Gauss Parallel (measured from sensor surface)
Shock	Up to 30G (11mS)
Vibration	Up to 20G (10-55 Hz)
Materials	Cable: PVC House: Anodized 6061-T6 Aluminum, Epoxy encapsulated printed circuit board
Temperature Range	-20° to +80°C
Environmental Protection	Designed for NEMA 1, 4 and 13
Cable Diameter	.19mm
Wire Gauge	20 AWG standard
Wire Length	9 Ft. standard

MOUNTING INSTALLATION



Clamp for NFPA
tie-rod cylinders
Universal 2" to 6" bore.

ELECTRICAL INSTALLATION



⎓ Both direct and alternating current

⏚ Earth (ground) TERMINAL

ORDERING INFORMATION

7GL10-000-001

canfield connector

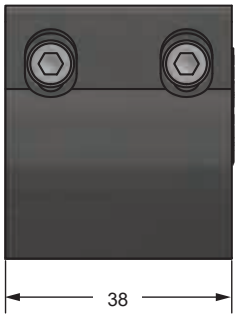
7HL SERIES
HAZARDOUS LOCATION MAGNETIC PROXIMITY SENSORS FOR TIE ROD CYLINDERS

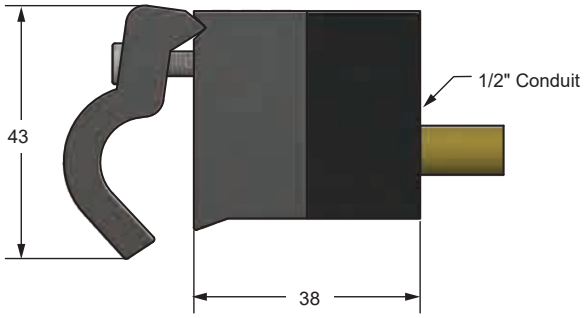
GENERAL DESCRIPTION

The Canfield Connector 7HL is a rugged magnetic proximity sensor designed to sense actuator position in stringent, hazardous location applications. The switch features a robust, epoxy-filled, aircraft aluminum body, and has a vibration and shock resistant, electronic circuit. The 7HL is an expansion of the popular Series 7000 “floating” clamp design and will clamp on 2 to 8 inch bore NFPA tie rod linear actuators. This product is designed to operate in hazardous locations, this switch is CSA approved for Class I, Division 2, Groups A, B, C, and D; Class II, Division 2, Groups F and G; and Class III.

DIMENSIONAL DATA

All dimensions are in millimeters unless otherwise noted.

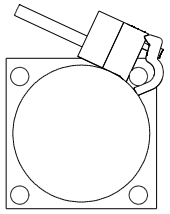




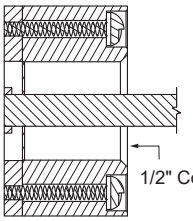
TECHNICAL DATA

Switch Type	S.P.S.T., Normally Open, Reed
Operating Voltage	0-120 V AC/DC 50/60 Hz
Load Max.	10W, Resistive only
Current Max.	0.5A
Response Time	On: 0.5ms Off: 0.1ms
Sensitivity / Orientation	85 Gauss Parallel (measured from sensor surface)
Shock	Up to 30G (11mS)
Vibration	Up to 20G (10-55 Hz)
Materials	Cable: PVC House: Anodized 6061-T6 Aluminum, Epoxy encapsulated printed circuit board
Temperature	Code: T6 Range: -20° to +80°C
Environmental Protection	Designed for NEMA 1, 4 and 13
Hazardous Location Rating	CSA: Class I, Division 2, Groups A, B, C and D; Class II, Division 2, Groups F and G; and Class III
Cable Diameter	.310mm
Wire Gauge	SJTOW type, 18 AWG standard
Wire Length	9 Ft. standard

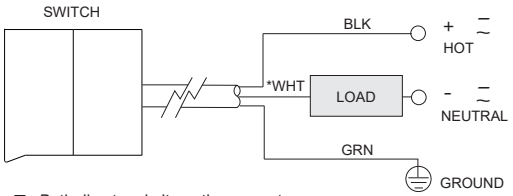
MOUNTING INSTALLATION



Clamp for NFPA tie-rod cylinders Universal 2" to 6" bore.



ELECTRICAL INSTALLATION



⎓ Both direct and alternating current

⏚ Earth (ground) TERMINAL

*White wire must be permanently reidentified to indicate its use as an ungrounded conductor, by painting or other effective means at its termination, and each location where the conductor is visible and accessible. Per NEC Article (200.7)

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

ORDERING INFORMATION

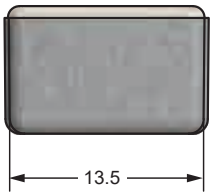
7 H L 1 0 - 0 0 0 - 0 0 1

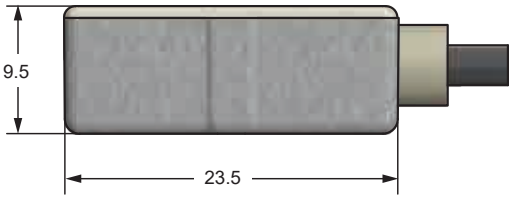
GENERAL DESCRIPTION

The Canfield Connector 8000 Series 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.

DIMENSIONAL DATA

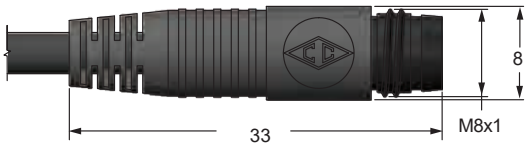
All dimensions are in millimeters unless otherwise noted.





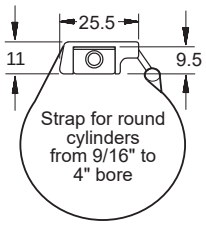
CONNECTION OPTION

8mm

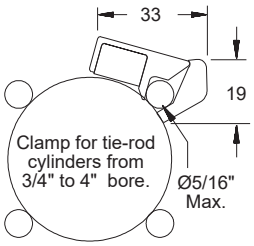


MOUNTING / CLAMP STYLES

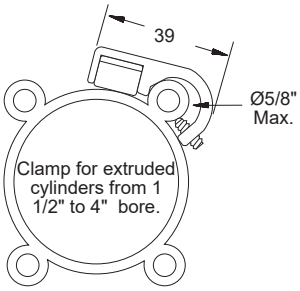
STYLE: 0



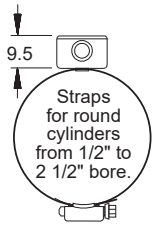
STYLE: 2



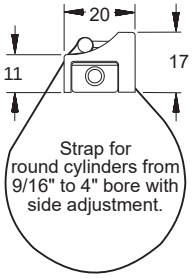
STYLE: 3



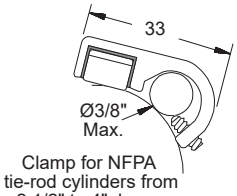
STYLE: 5-9



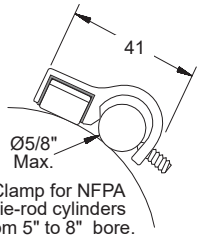
STYLE: A



STYLE: B



STYLE: C

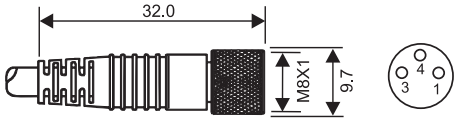


TECHNICAL DATA

Switch Type / Tech. Specs.	See Ordering Information†
Sensitivity / Orientation	Reed / Electronic: 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: PA
Temperature Range	-20° to +80°C
Environmental Protection	Designed for IP 65 / NEMA 4, IP 67 / NEMA 6 available on request
Cable Diameter	3.7mm
Wire Gauge	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)

ORDERING INFORMATION

810-□ 00-□ □□

Mounting / 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 above*

Switch† Type	Description	Function	Switching Voltage	Switching Current	Switching Power	Voltage Drop	Magnetic Sensitivity
01	Reed Switch	Normally Open SPST	0 - 120V AC/DC	0.5 Amps Max.	10 watts Max.	0 Volts	85 Ga.
02	Reed Switch & Red LED	Normally Open SPST	5 - 120V AC/DC	0.025 Amps Max. 0.001 Amps Min.	3 watts Max.	6.0 Volts	85 Ga.
04	Reed Switch, Red LED & MOV	Normally Open SPST	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, Red 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, Red LED & Sinking	Normally Open NPN	6 - 24 VDC	0.3 Amps Max.	7.2 watts Max.	.5 Volts	85 Ga.

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

Ordering Example: 810-000-002

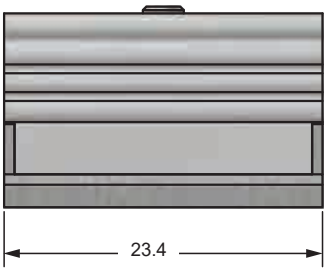
Universal round cylinder clamp, 9ft PVC cable, reed switch with LED, SPST, normally open, 5 - 120V AC/DC

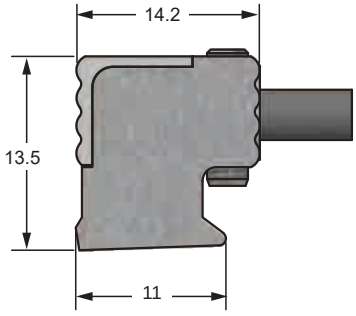
GENERAL DESCRIPTION

The Canfield Connector 8WS Series reed and electronic magnet sensors are rugged yet compact switches used to sense position on pneumatic actuators equipped with a magnetic piston and 12mm dovetail groove. The switch can be slipped in and tightened from anywhere along the groove that is fabricated into the cylinder wall or clamping system. The switch features a die cast holder which clamps to the cylinder groove while the electronics are fully encapsulated and resistance to environment. These sensors offer a wide voltage range from 0-120 V AC/DC 50/60Hz and have a up to a 500 mA switching current rating. The switch has a high intensity indicator light which indicates power to the switch and load. Options include 9ft. PVC or 8mm quick connect male pigtail.

DIMENSIONAL DATA

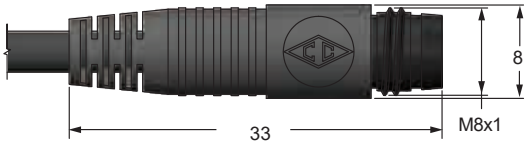
All dimensions are in millimeters unless otherwise noted.



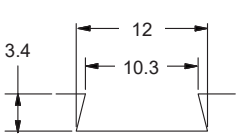


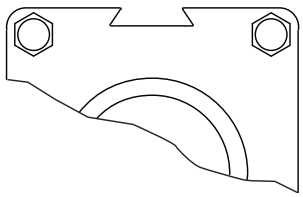
CONNECTION OPTION

8mm



GROOVE DETAILS





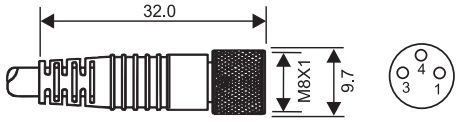
(Fits: Numatics)

TECHNICAL DATA

Switch Type / Tech. Specs.	See Ordering Information†
Sensitivity / Orientation	Reed / Electronic: 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: PA
Temperature Range	-20° to +80°C
Environmental Protection	Designed for IP 67 / NEMA 6
Cable Diameter	3.7mm
Wire Gauge	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)

ORDERING INFORMATION

8 W S 1 0 - 0 0 0 - ☐ ☐ ☐

Connection Options
0 - 9 ft PVC cable
1 - 8mm quick connect male pigtail*
**Mates with cordsets shown above*

Switch† Type	Description	Function	Switching Voltage	Switching Current	Switching Power	Voltage Drop	** Magnetic Sensitivity
01	Reed Switch	Normally Open SPST	0 - 120V AC/DC	0.5 Amps Max.	10 watts Max.	0 Volts	85 Ga.
02	Reed Switch & Red LED	Normally Open SPST	5 - 120V AC/DC	0.025 Amps Max. 0.001 Amps Min.	3 watts Max.	6.0 Volts	85 Ga.
04	Reed Switch, Red LED & MOV	Normally Open SPST	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, Red 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, Red LED & Sinking	Normally Open NPN	6 - 24 VDC	0.3 Amps Max.	7.2 watts Max.	.5 Volts	85 Ga.

**Minimum gauss rating required for proper operation. Size of sensing area depends upon size and strength of magnet and thickness of cylinder wall.

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

Ordering Example: 8WS10-000-002

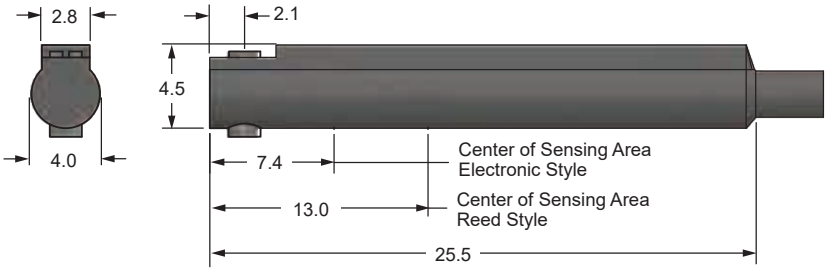
9 ft. PVC cable, reed switch with LED, SPST normally open, 5 - 120V AC/DC

GENERAL DESCRIPTION

The 9C Series is a compact, universal, magnetically operated proximity switch commonly used on aluminum extruded profile type linear actuators equipped with magnetic pistons. The switches are available in both reed and electronic styles and made to fit into a 4mm key hole type slot. Position fixing is accomplished by means of a screw that is supplied in the switch body. The on board indicator light shows instant switch diagnostics to minimize downtime and facilitate installation and can be seen from wide angles. Available in the standard 9 ft. PVC wired or optional 8mm quick connect, the switch can handle AC or DC current in several configurations. The 9C is constructed of engineered polymers and designed to meet IP 67 / NEMA 6 environmental specifications.

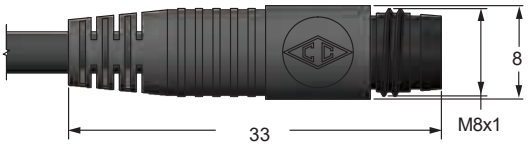
DIMENSIONAL DATA

All dimensions are in millimeters unless otherwise noted.

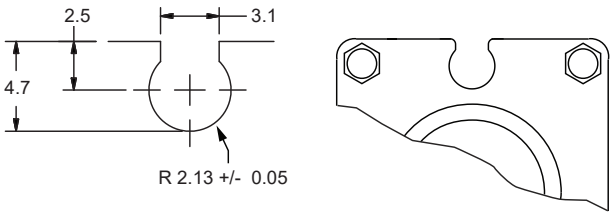


CONNECTION OPTION

8mm



GROOVE DETAILS



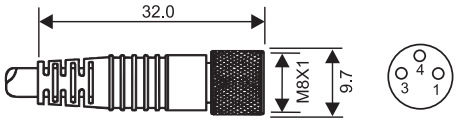
(Fits: DE-STA-CO, Robohand, SMC, Bimba, Compact Air, Fabco)

TECHNICAL DATA

Switch Type / Tech. Specs.	See Ordering Information†
Sensitivity / Orientation	Electronic: 40 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: PBT, TPU
Temperature Range	-10° to +70°C
Environmental Protection	Designed for IP 67 / NEMA 6
Cable Diameter	2.7mm
Wire Gauge	26 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)

ORDERING INFORMATION

9C1 0-000-□□

Connection Options
0 - 9 ft PVC cable
3 - 8mm quick connect male pigtail*
**Mates with cordsets shown above*

Switch† Type	Description	Function	Switching Voltage	Switching Current	Switching Power	Voltage Drop	**Magnetic Sensitivity
02	Reed Switch for PLC's, Red LED (current limiting)	Normally Open SPST	5 - 120V AC/DC 50/60 Hz	0.03 Amps Max. 0.001 Amps Min.	4 watts Max.	5.0 Volts @ 5mA	85 Ga.
31	Electronic for Reed Magnet, Yel LED & Sourcing	Normally Open PNP	5 - 28 VDC	0.5 Amps Max.	14 watts Max.	.5 Volts @ 500mA	40 Ga.
32	Electronic for Reed Magnet, Red LED & Sinking	Normally Open NPN	5 - 28 VDC	0.5 Amps Max.	14 watts Max.	.5 Volts @ 500mA	40 Ga.

**Minimum gauss rating required for proper operation. Size of sensing area depends upon size and strength of magnet and thickness of cylinder wall.

Ordering Example: 9C10-000-032

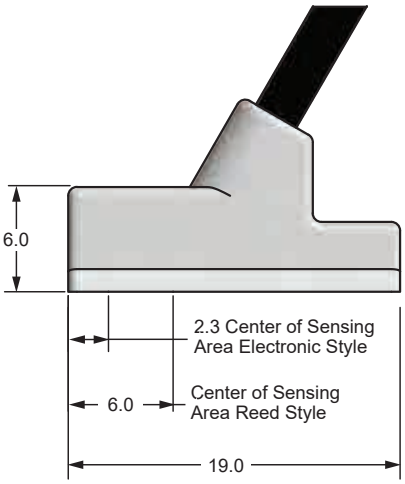
9 ft. PVC cable, electronic for reed magnet, Red LED, sinking, NPN, 5 - 28 VDC

GENERAL DESCRIPTION

The Canfield Connector 9D Series is a universal, ultra-small, magnetic proximity switch available in both solid state electronic and reed styles. These sensors are designed to fit the most stringent space requirements by use of a standard .250 inch dovetail slot. Many other mounting options are also available. The electronic sensor exhibits greater sensitivity to magnetism with reduced dead-band and hysteresis as compared to competitive devices. The reed sensor offers a wide operating voltage range. The molded switch has an on board indicator light that can be viewed from wide angles. Standard connection to the sensor is provided by a 9 ft. PVC or 8mm quick connect male pigtail. The rugged switch is shipped with mounting hardware ready for installation.

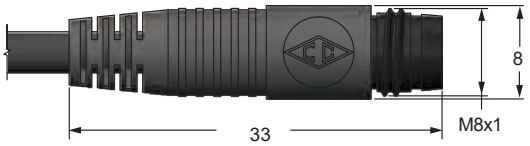
DIMENSIONAL DATA

All dimensions are in millimeters unless otherwise noted.



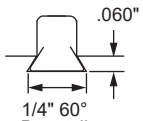
CONNECTION OPTION

8mm

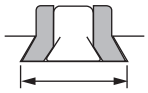


MOUNTING / CLAMP STYLES

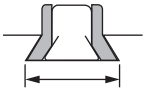
STYLE: 0



STYLE: 1

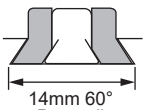


STYLE: 2

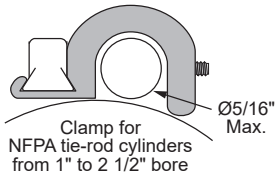


STYLE: 3

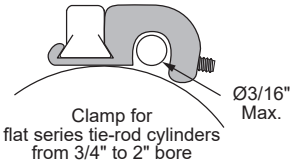
STYLE: 4



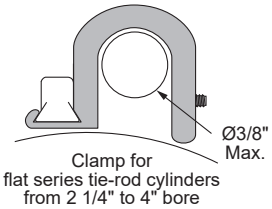
STYLE: F



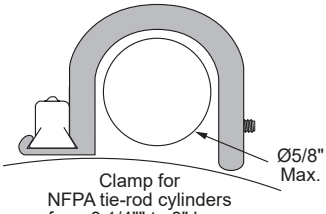
STYLE: G



STYLE: H



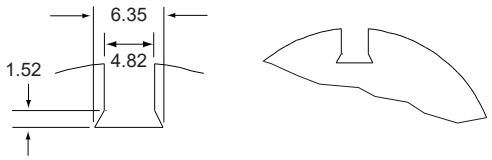
STYLE: J



TECHNICAL DATA

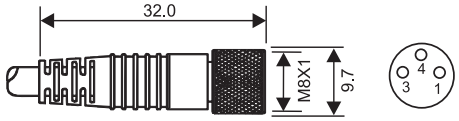
Switch Type / Tech. Specs.	See Ordering Information†
Sensitivity / Orientation	Electronic: 25 Gauss Parallel Reed: 85 Gauss Parallel (measured from sensor surface)
Shock	Up to 30G (11mS) Reed Only (not applicable for electronics)
Vibration	Up to 20G (10-55 Hz) Reed only
Materials	Cable: PVC House: PA, TPU
Temperature Range	-20° to +80°C
Environmental Protection	Designed for IP 67 / NEMA 6
Cable Diameter	2.7mm
Wire Gauge	26 AWG standard

GROOVE DETAILS



(Fits: Fabco, Numatics, Rotomation)

(ADDITIONAL) MATING CORDSETS / PIN CONFIGURATION



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

Order P/N:

RC08-AFM030-0120C10A (2m length)
RC08-AFM030-0150C10A (5m length)

ORDERING INFORMATION

9D10-□00-□□□

Mounting / Clamp Styles
0 - 1/4" 60° dovetail (standard)
1 - 12mm 60° dovetail adapter
2 - 3/8" 60° dovetail adapter
3 - Round cylinder clamp 3/4" - 4" bore
4 - 14mm 60° dovetail adapter
F - NFPA tie-rod cylinder clamp 1" - 2 1/2" bore
G - Flat series cylinder clamp 3/4" - 2" bore
H - Flat series cylinder clamp 2 1/4" - 4" bore
J - NFPA tie-rod cylinder clamp 3 1/4" - 8" bore

Connection Options
0 - 9 ft PVC cable
3 - 8mm quick connect male pigtail*
**Mates with cordsets shown above*

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	0.25 Amps Max.	5 watts Max.	0 Volts	85 Ga.
02	Reed Switch for PLC's, Red LED (current limiting)	Normally Open SPST	5 - 120V AC/DC 50/60 Hz	0.03 Amps Max. 0.001 Amps Min.	4 watts Max.	5.0 Volts @ 5mA	85 Ga.
31	Electronic for Reed Magnet, Yel LED & Sourcing	Normally Open PNP	5 - 28 VDC	0.2 Amps Max.	4.8 watts Max.	1.0 Volts	25 Ga.
32	Electronic for Reed Magnet, Red LED & Sinking	Normally Open NPN	5 - 28 VDC	0.2 Amps Max.	4.8 watts Max.	1.0 Volts	25 Ga.

Ordering Example: 9D10-000-002

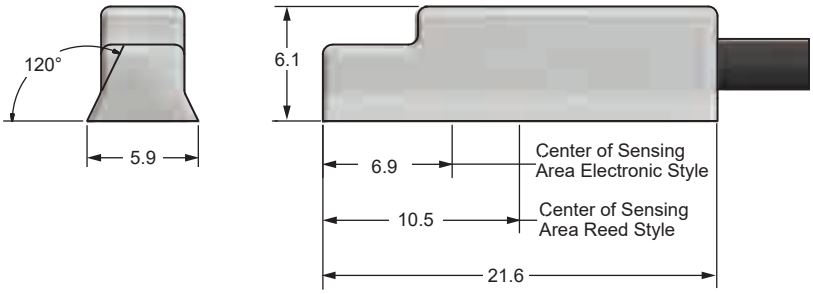
1/4" dovetail, 9 ft. PVC cable, reed switch for PLC's with LED, SPST, normally open, 5 - 120V AC/DC 50/60 Hz

GENERAL DESCRIPTION

The Canfield Connector 9E Series is a universal, ultra-small, magnetic proximity switch available in both solid state electronic and reed styles. These sensors are designed to fit the most stringent space requirements by use of a standard .250 inch dovetail slot. Many other mounting options are also available. The electronic sensor exhibits greater sensitivity to magnetism with reduced dead-band and hysteresis as compared to competitive devices. The reed sensor offers a wide operating voltage range. The molded switch has an on board indicator light that can be viewed from wide angles. Standard connection to the sensor is provided by a 9 ft. PVC or 8mm quick connect male pigtail. The rugged switch is shipped with mounting hardware ready for installation.

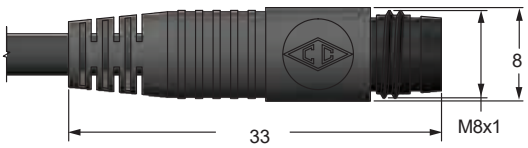
DIMENSIONAL DATA

All dimensions are in millimeters unless otherwise noted.



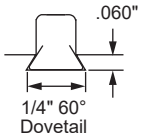
CONNECTION OPTION

8mm

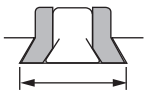


MOUNTING / CLAMP STYLES

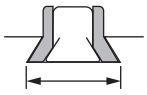
STYLE: 0



STYLE: 1

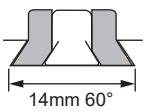


STYLE: 2

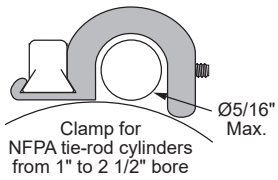


STYLE: 3

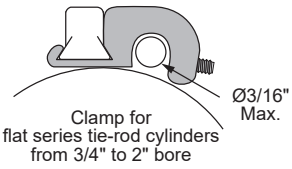
STYLE: 4



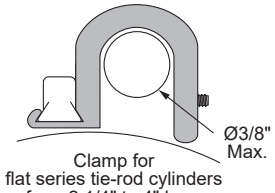
STYLE: F



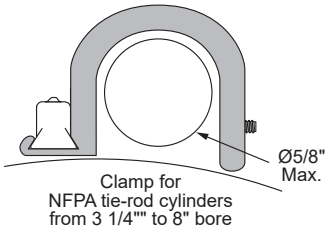
STYLE: G



STYLE: H



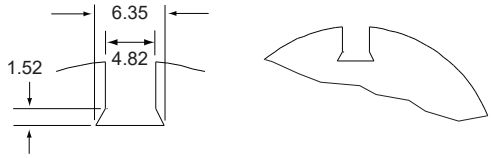
STYLE: J



TECHNICAL DATA

Switch Type / Tech. Specs.	See Ordering Information†
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: PA, TPU
Temperature Range	-20° to +80°C
Environmental Protection	Designed for IP 67 / NEMA 6
Cable Diameter	2.7mm
Wire Gauge	26 AWG standard

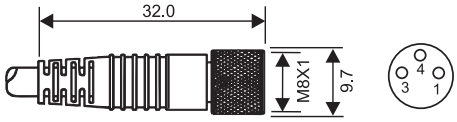
GROOVE DETAILS



(Fits: Fabco, Numatics, Rotomation)

(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)

ORDERING INFORMATION

9E10-□00-□□□

Mounting / Clamp Styles
0 - 1/4" 60° dovetail (standard)
1 - 12mm 60° dovetail adapter
2 - 3/8" 60° dovetail adapter
3 - Round cylinder clamp 3/4" - 4" bore
4 - 14mm 60° dovetail adapter
F - NFPA tie-rod cylinder clamp 1" - 2 1/2" bore
G - Flat series cylinder clamp 3/4" - 2" bore
H - Flat series cylinder clamp 2 1/4" - 4" bore
J - NFPA tie-rod cylinder clamp 3 1/4" - 8" bore

Connection Options
0 - 9 ft PVC cable
3 - 8mm quick connect male pigtail*
**Mates with cordsets shown above*

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	0.25 Amps Max.	5 watts Max.	0 Volts	85 Ga.
02	Reed Switch for PLC's, Red LED (current limiting)	Normally Open SPST	5 - 120V AC/DC 50/60 Hz	0.03 Amps Max. 0.001 Amps Min.	4 watts Max.	5.0 Volts @ 5mA	85 Ga.
31	Electronic for Reed Magnet, Yel LED & Sourcing	Normally Open PNP	5 - 28 VDC	0.2 Amps Max.	4.8 watts Max.	1.0 Volts	25 Ga.
32	Electronic for Reed Magnet, Red LED & Sinking	Normally Open NPN	5 - 28 VDC	0.2 Amps Max.	4.8 watts Max.	1.0 Volts	25 Ga.

Ordering Example: 9E10-000-002

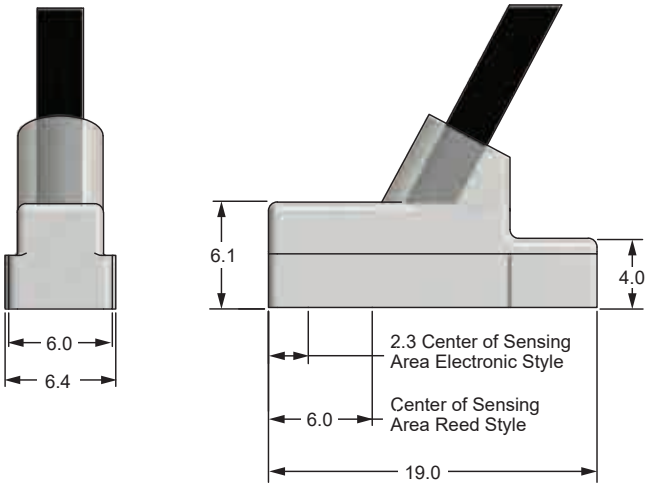
1/4" dovetail, 9 ft. PVC cable, reed switch for PLC's with LED, SPST, normally open, 5 - 120V AC/DC 50/60 Hz

GENERAL DESCRIPTION

The Canfield Connector 9F Series is a universal, ultra-small, magnetic proximity switch available in both solid state electronic and reed styles. These sensors are designed to fit the most stringent space requirements by using a 4mm "T" slot. The electronic sensor exhibits greater sensitivity to magnetism with reduced dead-band and hysteresis as compared to competitive devices. The reed sensor offers a wide operating voltage range. The molded switch has an on board indicator light that can be viewed from wide angles. Standard connection to the sensor is provided by a 9 ft. PVC or 8mm quick connect male pigtail. The rugged switch is shipped with mounting hardware ready for installation.

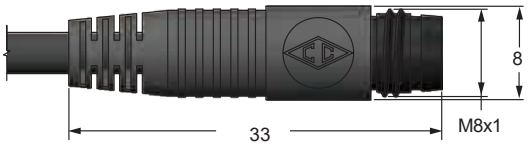
DIMENSIONAL DATA

All dimensions are in millimeters unless otherwise noted.

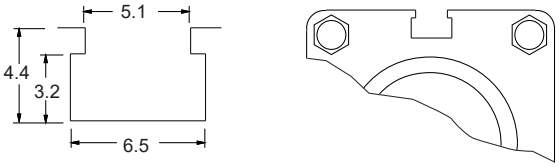


CONNECTION OPTION

8mm



GROOVE DETAILS



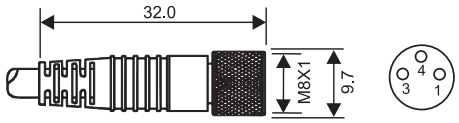
(Fits: Fabco, Festo, Numatics, Rotomation)

TECHNICAL DATA

Switch Type / Tech. Specs.	See Ordering Information†
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: PA, TPU
Temperature Range	-20° to +80°C
Environmental Protection	Designed for IP 67 / NEMA 6
Cable Diameter	2.7mm
Wire Gauge	26 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)

ORDERING INFORMATION

9F10-000-□□□

Connection Options
0 - 9 ft PVC cable
3 - 8mm quick connect male pigtail*
**Mates with cordsets shown above*

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	0.25 Amps Max.	5 watts Max.	0 Volts	85 Ga.
02	Reed Switch for PLC's, Red LED (current limiting)	Normally Open SPST	5 - 120V AC/DC 50/60 Hz	0.03 Amps Max. 0.001 Amps Min.	4 watts Max.	5.0 Volts @ 5mA	85 Ga.
31	Electronic for Reed Magnet, Yel LED & Sourcing	Normally Open PNP	5 - 28 VDC	0.2 Amps Max.	4.8 watts Max.	1.0 Volts	25 Ga.
32	Electronic for Reed Magnet, Red LED & Sinking	Normally Open NPN	5 - 28 VDC	0.2 Amps Max.	4.8 watts Max.	1.0 Volts	25 Ga.

Ordering Example: 9F10-000-002

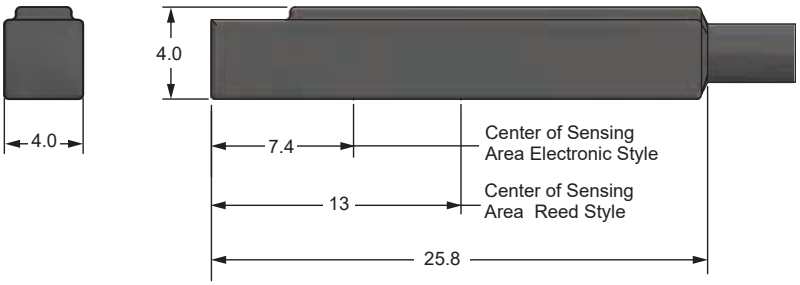
9 ft. PVC cable, reed switch for PLC's with LED, SPST, normally open, 5 - 120V AC/DC 50/60 Hz

GENERAL DESCRIPTION

The Canfield Connector 9H Series is a profile mounting type switch that fits in a 4mm X 4mm square groove which normally is designed into an aluminum extrusion type linear actuator. Available in reed or electronic versions, the 9H is also available with a 9 ft. PVC or 8mm quick connect male pigtail. The switch is IP-67 which is dust tight and water resistant.

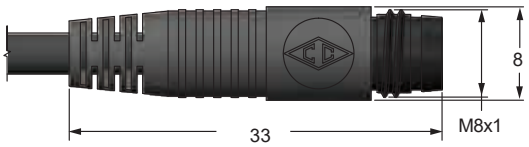
DIMENSIONAL DATA

All dimensions are in millimeters unless otherwise noted.

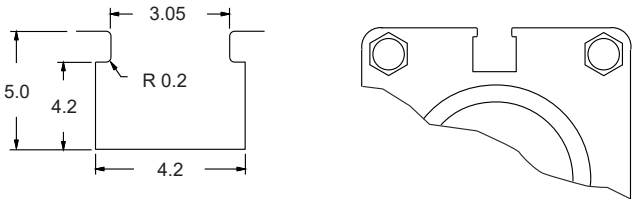


CONNECTION OPTION

8mm



GROOVE DETAILS



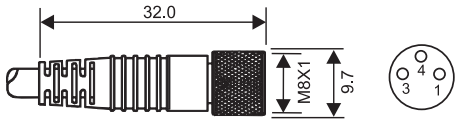
(Fits: 4x4 groove)

TECHNICAL DATA

Switch Type / Tech. Specs.	See Ordering Information†
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: ABS
Temperature Range	-20° to +80°C
Environmental Protection	Designed for IP 67 / NEMA 6
Cable Diameter	2.8mm
Wire Gauge	26 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)

ORDERING INFORMATION

9H10-000-□ □□

Connection Options
0 - 9 ft PVC cable
3 - 8mm quick connect male pigtail*
**Mates with cordsets shown above*

Switch† Type	Description	Function	Switching Voltage	Switching Current	Switching Power	Voltage Drop	Magnetic Sensitivity
02	Reed Switch with Red LED	Normally Open SPST	5 - 120V AC/DC	0.1 Amps Max.	10 watts Max.	2.5 Volts @ 100mA	60 Ga.
31	Electronic for Reed Magnet, with Grn LED & Sourcing	Normally Open PNP	5 - 28 VDC	0.2 Amps Max.	6 watts Max.	.5 Volts @ 200 mA	40 Ga.
32	Electronic for Reed Magnet, with Red LED & Sinking	Normally Open NPN	5 - 28 VDC	0.2 Amps Max.	6 watts Max.	.5 Volts @ 200 mA	40 Ga.

Ordering Example: 9H10-000-002

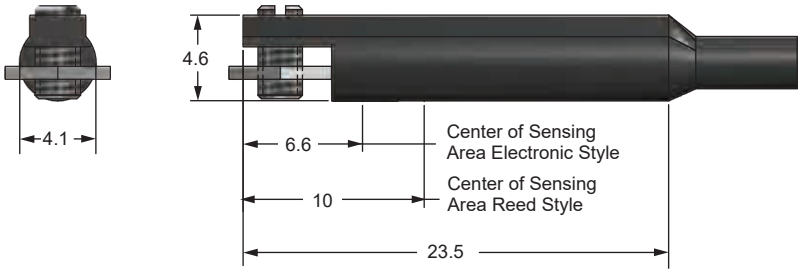
9 ft. PVC cable, reed switch with red LED, SPST, 5 - 120V AC/DC 50/60 Hz

GENERAL DESCRIPTION

The Canfield Connector 9K Series is a profile mounting type switch that fits in a 4.2mm "U" groove which normally is designed into an aluminum extrusion type linear actuator. Available in reed or electronic versions, the 9K is also available with a 9 ft. PVC or 8mm quick connect male pigtail. The switch is IP67 which is dust tight and water resistant.

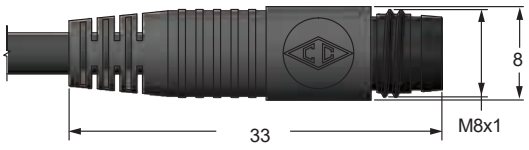
DIMENSIONAL DATA

All dimensions are in millimeters unless otherwise noted.

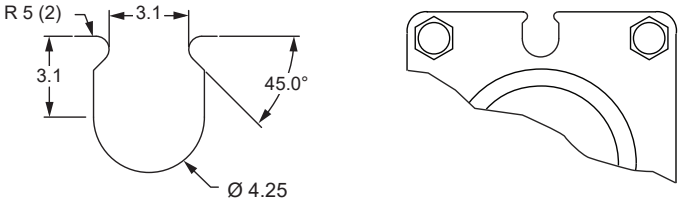


CONNECTION OPTION

8mm



GROOVE DETAILS



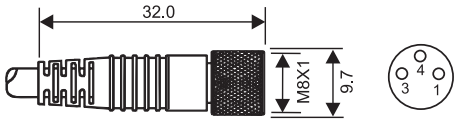
(Fits: Mindman, Koganei)

TECHNICAL DATA

Switch Type / Tech. Specs.	See Ordering Information†
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: PBT
Temperature Range	-20° to +80°C
Environmental Protection	Designed for IP 67 / NEMA 6
Cable Diameter	2.8mm
Wire Gauge	26 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)

ORDERING INFORMATION

9K10-000-□ □□

Connection Options
0 - 9 ft PVC cable
3 - 8mm quick connect male pigtail*
**Mates with cordsets shown above*

Switch† Type	Description	Function	Switching Voltage	Switching Current	Switching Power	Voltage Drop	Magnetic Sensitivity
02	Reed Switch with Red LED	Normally Open SPST	5 - 120V AC/DC	0.03 Amps Max.	4 watts Max.	2.5 Volts	60 Ga.
31	Electronic for Reed Magnet, with Grn LED & Sourcing	Normally Open PNP	5 - 28 VDC	0.2 Amps Max.	4.8 watts Max.	.5 Volts	40 Ga.
32	Electronic for Reed Magnet, with Red LED & Sinking	Normally Open NPN	5 - 28 VDC	0.2 Amps Max.	4.8 watts Max.	.5 Volts	40 Ga.

Ordering Example: 9K10-000-002

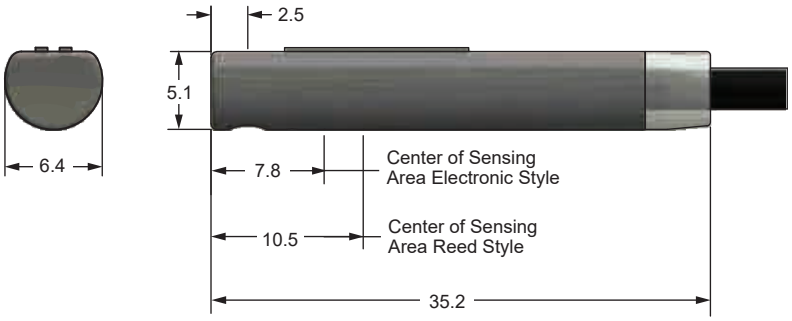
9 ft. PVC cable, reed switch with red LED, SPST, 5 - 120V AC/DC 50/60 Hz

GENERAL DESCRIPTION

The Canfield Connector 9M50 Series is a compact full featured magnetic proximity switch designed to fit a “D” shaped groove detail designed into linear actuators. The innovative design allows the switch to be inserted anywhere along the linear actuator and then rotated and locked into position. When installed the switch lies flat against the cylinder housing and does not protrude beyond the cylinder face making installations neat and clean. The fully encapsulated switch is offered in reed, and electronic styles in either NPN or PNP. The robust polyurethane encapsulated design meets IP67, NEMA 6 environmental protection. Voltage ranges are available from 0 to 120 VAC/DC in multiple versions. Standard connection is provided by a 9 ft. PVC or 8mm quick connect male pigtail and is proudly made in the U.S.A.

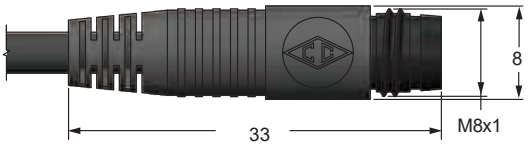
DIMENSIONAL DATA

All dimensions are in millimeters unless otherwise noted.

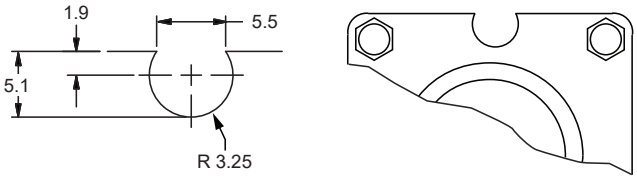


CONNECTION OPTION

8mm



GROOVE DETAILS



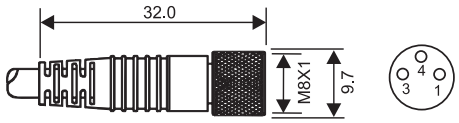
(Fits: Norgren)

TECHNICAL DATA

Switch Type / Tech. Specs.	See Ordering Information†
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: PEI, TPU
Temperature Range	-20° to +80°C
Environmental Protection	Designed for IP 67 / NEMA 6
Cable Diameter	2.7mm
Wire Gauge	26 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)

ORDERING INFORMATION

9M5010-000-□□

Connection Options
0 - 9 ft PVC cable
3 - 8mm quick connect male pigtail*
**Mates with cordsets shown above*

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	0.25 Amps Max.	5 watts Max.	0 Volts	85 Ga.
02	Reed Switch for PLC's Red LED (current limiting)	Normally Open SPST	5 - 120V AC/DC 50/60 Hz	0.03 Amps Max. 0.001 Amps Min.	4 watts Max.	3.5 Volts	85 Ga.
31	Electronic for Reed Magnet, Yel LED & Sourcing	Normally Open PNP	5 - 28 VDC	0.2 Amps Max.	4.8 watts Max.	1.0 Volts	25 Ga.
32	Electronic for Reed Magnet, Red LED & Sinking	Normally Open NPN	5 - 28 VDC	0.2 Amps Max.	4.8 watts Max.	1.0 Volts	25 Ga.

**Minimum gauss rating required for proper operation. Size of sensing area depends upon size and strength of magnet and thickness of cylinder wall.

Ordering Example: 9M5010-000-002

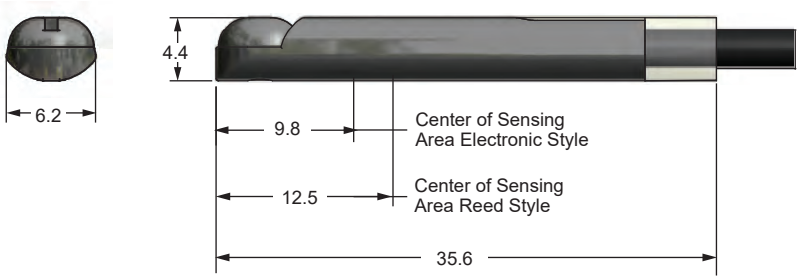
9 ft. PVC cable, reed switch with Red LED, SPST, 5 - 120V AC/DC 50/60 Hz

GENERAL DESCRIPTION

The Canfield Connector 9Q Series is a magnetic proximity switch that is engineered to fit into extruded actuators that are made with a “T” slot. The unique design of the 9Q enables it to be installed anywhere along the slot and assembled in place without taking off the actuator end-cap. The rugged polyurethane encapsulated switch features an innovative design that incorporates a hard nylon shell. The switches are available in reed or electronic sensing and features a standard on board indicator light. Offered as a flying lead or 8mm quick connect, the sensors are quickly and easily wired in to any application. The sensors meet NEMA 6 / IP67 environmental specifications and are corrosion and wash-down compatible. This sensor is proudly made in the USA.

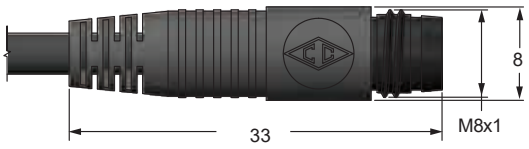
DIMENSIONAL DATA

All dimensions are in millimeters unless otherwise noted.

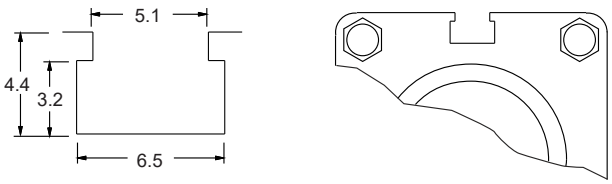


CONNECTION OPTION

8mm



GROOVE DETAILS



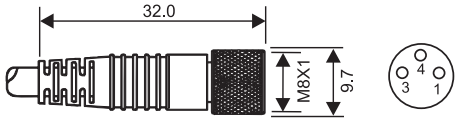
(Fits: Parker, Fabco, Festo, Numatics, Rotomation)

TECHNICAL DATA

Switch Type / Tech. Specs.	See Ordering Information†
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: PEI, TPU
Temperature Range	-20° to +80°C
Environmental Protection	Designed for IP 67 / NEMA 6
Cable Diameter	2.7mm
Wire Gauge	26 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)

ORDERING INFORMATION

9Q10-000-□□

Connection Options
0 - 9 ft PVC cable
3 - 8mm quick connect male pigtail*
**Mates with cordsets shown above*

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	0.25 Amps Max.	5 watts Max.	0 Volts	85 Ga.
02	Reed Switch for PLC's, Red LED (current limiting)	Normally Open SPST	5 - 120V AC/DC 50/60 Hz	0.03 Amps Max. 0.001 Amps Min.	4 watts Max.	5.0 Volts @ 5mA	85 Ga.
31	Electronic for Reed Magnet, Yel LED & Sourcing	Normally Open PNP	5 - 28 VDC	0.2 Amps Max.	4.8 watts Max.	1.0 Volts	25 Ga.
32	Electronic for Reed Magnet, Red LED & Sinking	Normally Open NPN	5 - 28 VDC	0.2 Amps Max.	4.8 watts Max.	1.0 Volts	25 Ga.

Ordering Example: 9Q10-000-002

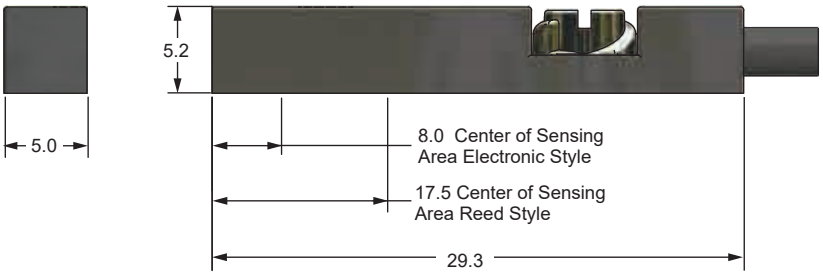
9 ft. PVC cable, reed switch for PLC's with
LED, SPST, normally open, 5 - 120V AC/DC 50/60 Hz

GENERAL DESCRIPTION

The Canfield Connector 9U Series is a compact full featured magnetic proximity switch designed to fit a Fabco, Festo, Numatics, Parker and SMC T-slot groove detail designed into linear actuators. The innovative top down design allows the switch to be inserted anywhere along the linear actuator and tightened into position. When installed the switch lies flush against the cylinder housing making installations neat and clean. The fully encapsulated switch is offered in reed, and electronic styles in either NPN or PNP. The robust encapsulated design meets IP67, EN60529, NEMA 6 environmental protection. Voltage ranges are available for reed version from 0 to 240 VAC/DC and 5-30 VDC in electronic versions. Standard connection is provided by a 9 ft. PUR wire lead or 8mm quick connect male pigtail.

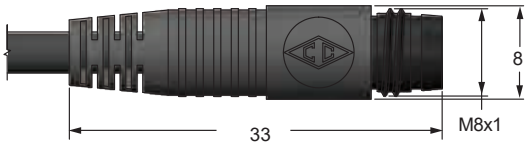
DIMENSIONAL DATA

All dimensions are in millimeters unless otherwise noted.

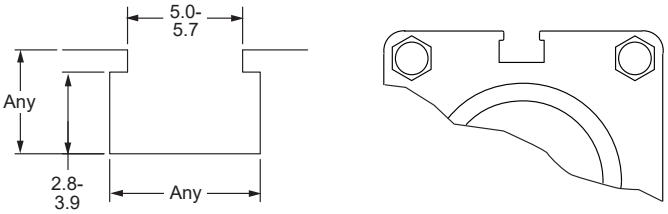


CONNECTION OPTION

8mm



GROOVE DETAILS



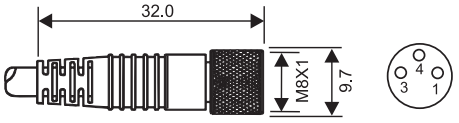
(Fits: Fabco, Festo, Numatics, Parker, SMC)

TECHNICAL DATA

Switch Type / Tech. Specs.	See Ordering Information†
Sensitivity / Orientation	Electronic: 40 Gauss Parallel Reed: 60 Gauss Parallel (measured from sensor surface)
Shock	Up to 50G (11mS)
Vibration	Up to 9G
Materials	Cable: PUR House: PA
Temperature Range	-10° to +70°C
Environmental Protection	Designed for IP 67 / NEMA 6
Cable Diameter	2.9mm
Wire Gauge	26 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)

ORDERING INFORMATION

9U10-000-□□

Connection Options
0 - 9 ft PVC cable
3 - 8mm quick connect male pigtail*
**Mates with cordsets shown above*

Switch† Type	Description	Function	Switching Voltage	Switching Current	Switching Power	Voltage Drop	Magnetic Sensitivity
02	Reed Switch with Red LED	Normally Open SPST	5 - 240V AC/DC	0.1 Amps Max.	10 watts Max.	2.65 Volts @ 100mA	60 Ga.
31	Electronic for Reed Magnet, with Grn LED & Sourcing	Normally Open PNP	5 - 30 VDC	0.1 Amps Max.	3 watts Max.	.5 Volts @ 100 mA	40 Ga.
32	Electronic for Reed Magnet, with Red LED & Sinking	Normally Open NPN	5 - 30 VDC	0.1 Amps Max.	3 watts Max.	.5 Volts @ 100 mA	40 Ga.

Ordering Example: 9U10-000-002

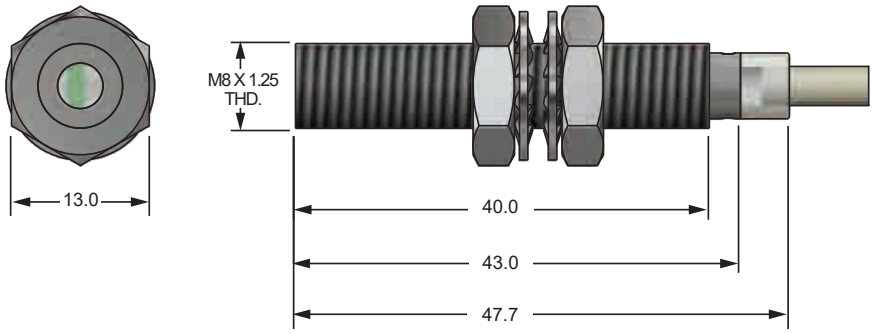
9 ft. PVC cable, reed switch with red LED, SPST, 5 - 240V AC/DC 50/60 Hz

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.

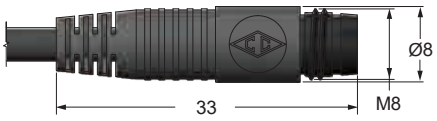
DIMENSIONAL DATA

All dimensions are in millimeters unless otherwise noted.

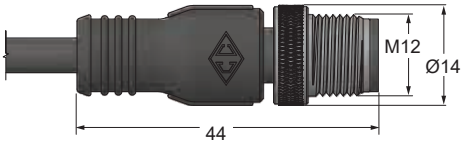


CONNECTION OPTIONS

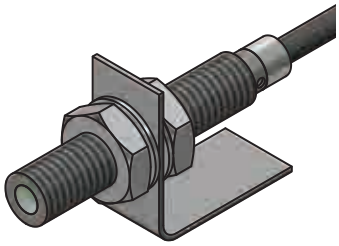
8mm



12mm



MOUNTING ORIENTATION

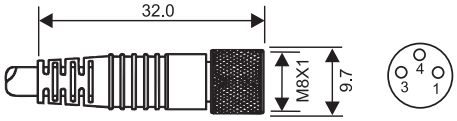


TECHNICAL DATA

Switch Type / Tech. Specs.	See Ordering Information†
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

(ADDITIONAL) MATING CORDSETS / PIN CONFIGURATION

8mm female molded locking connector

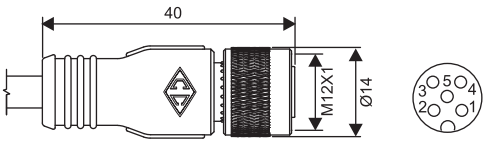


Brown = Pin 1
Blue = Pin 3
Black = Pin 4

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† 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

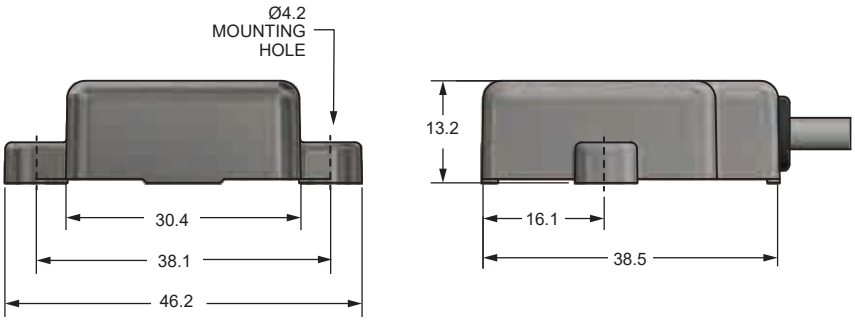
9 ft. PVC cable, Reed Switch, Normally Open, 0-120V AC/DC 50/60 Hz, Bulk Packaged.

GENERAL DESCRIPTION

The Canfield Connector Electronic Inclinometer Sensor EiS is an instrument designed to measure angles of slope, tilt, or elevation of an object with respect to gravity based on an artificial horizon. Synonyms include tilt sensor, tilt switch, clinometer, slope sensor, slope gauge, level sensor, level meter, tiltmeter or pitch and roll sensor. The EiS Series is an all solid-state, MEMs device designed to measure tilt while reporting the data within 0.3 degrees accuracy +/- 85° with an analog output of .5 to 9.5 Volts DC, 4 -20mA. The unit features a miniature metal housing and is epoxy encapsulated for vibration, water and dust resistance and is rated up to IP 69K environmental rating. Available in 1 or 2 axis versions, the unit boasts a temperature drift of +/- 1° maximum with a temperature range of -40 to 85°C. The EiS Series is precisely calibrated to remove non-linearity in the sensing range. Applications for inclinometers such as the EiS Series include platform leveling, motion sensing, filter vibrations, boom angle sensing, cameras, machine arm angle sensing as well as mobile security systems. The unit comes with high quality 9 ft. PVC jacketed wire, other lengths and quick connections as options, and is mounted in place by use of two 4.2mm holes.

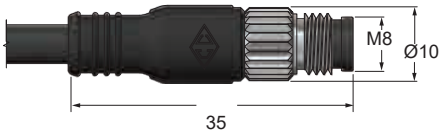
DIMENSIONAL DATA

All dimensions are in millimeters unless otherwise noted.

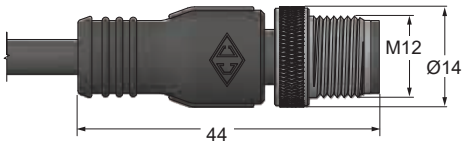


CONNECTION OPTIONS

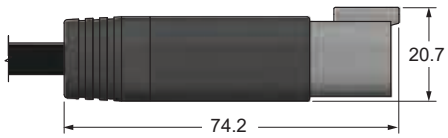
8mm



12mm



GT 4 Pin

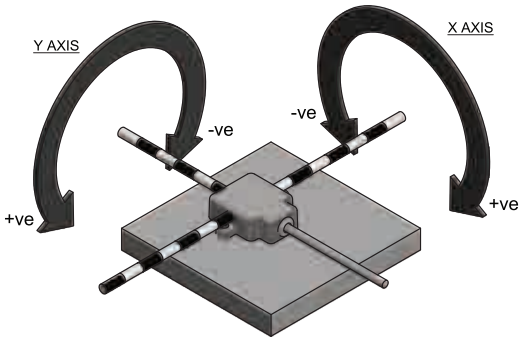


TECHNICAL DATA

Accuracy @ 20°C	0.3°
Environmental Protection	Up to IP 69K
Materials	Housing: Zinc die-cast Housing Finish: Black powder coat
Number of Axis	Single: 1 Dual: 2
Output Current	10 mA Maximum (Voltage Output Units)
Output Format	Analog
Output Type	0.5 - 4.5VDC 0.5 - 9.5 VDC 4 - 20 mA
Range	+/- 85°
Supply Voltage	12-24 VDC
Temperature Drift	+/- 1° Maximum
Temperature Range	-40° to +85°C
Cable Type	PVC (PUR on request. Consult Factory)
Wire Gauge	24 AWG

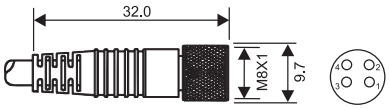
MOUNTING / SENSING ORIENTATION

Mounted on Horizontal Surface



(ADDITIONAL) MATING CORDSETS / PIN CONFIGURATION

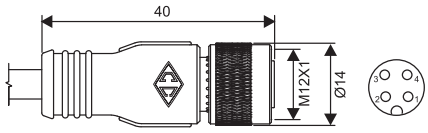
8mm female molded locking connector



Brown = Pin 1
White = Pin 2
Blue = Pin 3
Black = Pin 4

Order P/N:
RC08-AFM040-0120C10A (2m length)
RC08-AFM040-0150C10A (5m length)

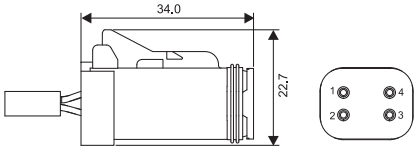
12mm female molded locking connector



Brown = Pin 1
White = Pin 2
Blue = Pin 3
Black = Pin 4

Order P/N:
RC12-AFM040-0120C10A (2m length)
RC12-AFM040-0150C10A (5m length)

GT Deutsch style locking plug



Brown = Pin 1
Blue = Pin 2
Black = Pin 3
Green = Pin 4

Order P/N:
GT0604-U000-1A (2m length)
GT0604-X000-1A (5m length)

ORDERING INFORMATION

EiS10-100 □ -3 □ □ □

Axis
1 - Single
2 - Dual

Measurement Range
A - +/-15
B - +/-30
C - +/-45
D - +/-60
E - +/-85

Connection Options
0 - 9 ft PVC cable
1 - 8mm quick connect male pigtail*
2 - 12mm quick connect male pigtail*
3 - GT04 4 pin receptacle Deutsch style pigtail*
**Mates with cordsets shown above*
Consult factory for PUR and shielded versions

Output Type
1 - 4-20mA
2 - 0.5 - 4.5V
3 - 0.5 - 9.5V

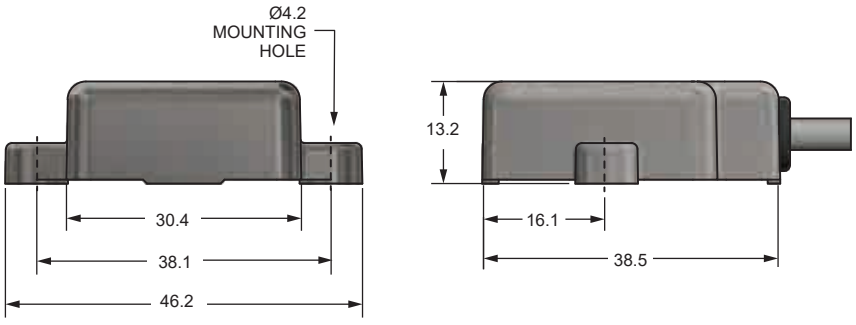
Ordering Example: EiS10-1001-3A10
Single Axis, +/-15 Range, 4-20mA, 9 ft. PVC cable.

GENERAL DESCRIPTION

The Canfield Connector Electronic Inclinometer Sensor EiS is available in two versions, CANopen and SAE J1939 communication interfaces. The EiS CAN BUS versions feature dual axis output designed to measure angles of slope or tilt angles of an object with respect to gravity based on an artificial horizon. Synonyms include tilt sensor, tilt switch, clinometer, slope sensor, slope gauge, level sensor, level meter, tiltmeter or pitch and roll sensor. The EiS Series is an all solid-state, MEMs device designed to measure tilt while reporting the data via CANopen or SAE J1939 within 0.3 degrees accuracy +/- 90°. The unit features a miniature metal housing and is epoxy encapsulated for vibration, water and dust resistance and is rated up to IP 69K environmental rating. The unit boasts a temperature drift of +/- 1° maximum with a temperature range of -40 to 85°C. The EiS CAN BUS versions are precisely calibrated to remove non-linearity in the sensing range. Applications for inclinometers such as the EiS Series include platform leveling, motion sensing, filter vibrations, boom angle sensing, cameras, machine arm angle sensing, engine management as well as mobile security systems. The unit comes with high quality 9 ft. PVC jacketed wire, other lengths and quick connections as options, and is mounted in place by use of two 4.2mm holes.

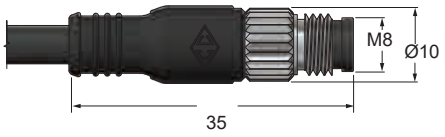
DIMENSIONAL DATA

All dimensions are in millimeters unless otherwise noted.

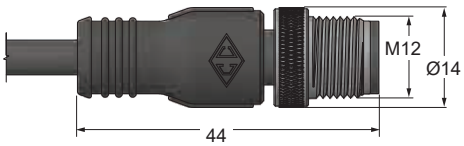


CONNECTION OPTIONS

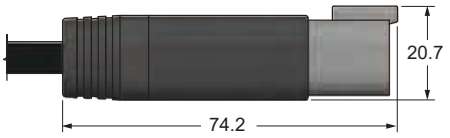
8mm



12mm



GT 4 Pin

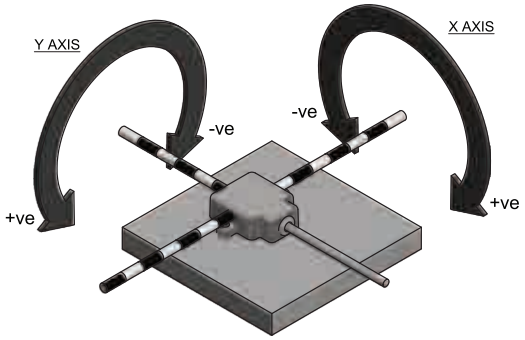


TECHNICAL DATA

Accuracy @ 20°C	-0.3° to +0.3°
Environmental Protection	Up to IP 69K
Materials	Housing: Zinc die-cast Housing Finish: Black powder coat
Number of Axis	Dual: 2
Angle Range	Both Axis -90° to +90°
Supply Current	30 mA Maximum
CAN Speed	250 kbps (default)
Startup Time	Vcc = 0V to VCC = 12V 1 sec.
Resolution	0.01°
Update Rate	100 Hz
Supply Voltage	8 to 30V
Temperature Drift	+/- 1° Maximum
Temperature Range	-40° to +85°C
Cable Type	PVC (PUR on request. Consult Factory)
Wire Gauge	24 AWG

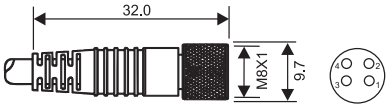
MOUNTING / SENSING ORIENTATION

Mounted on Horizontal Surface



(ADDITIONAL) MATING CORDSETS / PIN CONFIGURATION

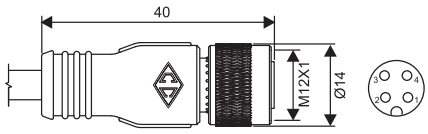
8mm female molded locking connector



Brown = Pin 1
White = Pin 2
Blue = Pin 3
Black = Pin 4

Order P/N:
RC08-AFM040-0120C10A (2m length)
RC08-AFM040-0150C10A (5m length)

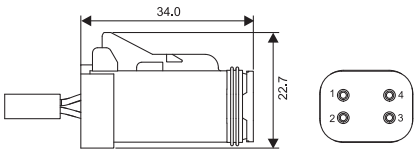
12mm female molded locking connector



Brown = Pin 1
White = Pin 2
Blue = Pin 3
Black = Pin 4

Order P/N:
RC12-AFM040-0120C10A (2m length)
RC12-AFM040-0150C10A (5m length)

GT Deutsch style locking plug



Brown = Pin 1
Blue = Pin 2
Black = Pin 3
Green = Pin 4

Order P/N:
GT0604-U000-1A (2m length)
GT0604-X000-1A (5m length)

ORDERING INFORMATION

EiS10-C00☐ -3F☐ ☐

Axis
2 - Dual

Output Type
A - J1939
B - CANOpen

Connection Options
0 - 9 ft PVC cable
1 - 8mm quick connect male pigtail*
2 - 12mm quick connect male pigtail*
3 - GT04 4 pin receptacle Deutsch style pigtail*
**Mates with cordsets shown above*
Consult factory for PUR and shielded versions

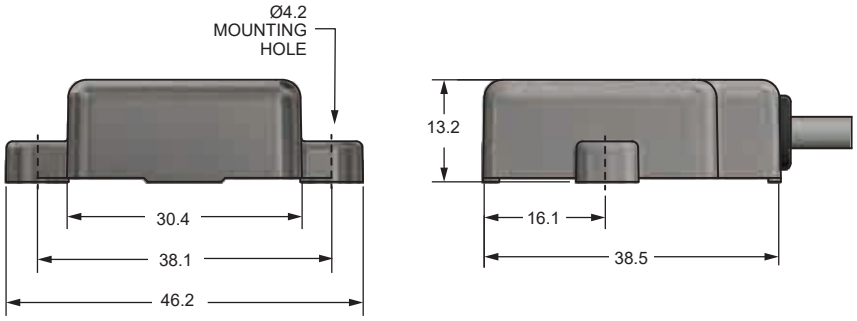
Ordering Example: EiS10-C002-3FA0
Dual Axis, J1939, 9 ft. PVC cable.

GENERAL DESCRIPTION

The Canfield Connector Electronic Tilt Switch is a rugged, non-mercury, all electronic sensor designed to trigger a precision output based on user defined angles of slope, tilt, or elevation of an object with respect to gravity, based on an artificial horizon. The Canfield Connector ETS Series is an all solid-state MEMs device designed to measure tilt and facilitate either a high or low signal output, while internally calculating the data within 0.5 degrees accuracy up to a preset trigger point within +/- 85 degrees. The unit features a rugged metal housing and is epoxy encapsulated for vibration, dust and water resistance to IP69K. The ETS Series is omnidirectional and boasts a temperature drift of +/- 1° maximum with a temperature range of -40 to 85°C. The ETS Series is digitally and temperature compensated and precisely calibrated to remove non-linearity of the trip point. Applications for Tilt Switches such as the ETS Series include platform leveling, motion limit sensing, boom angle sensing, cameras, machine arm angle sensing as well as mobile security systems. The unit comes with PVC wire (PUR on request), 9ft. length with other lengths and quick connections available. The unit is installed in place by use of two 4.2mm holes.

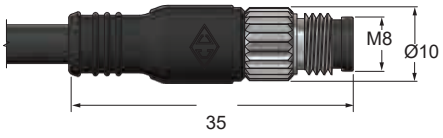
DIMENSIONAL DATA

All dimensions are in millimeters unless otherwise noted.

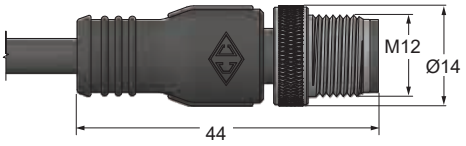


CONNECTION OPTIONS

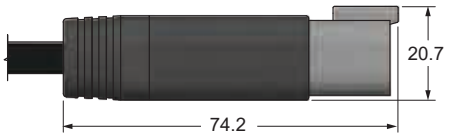
8mm



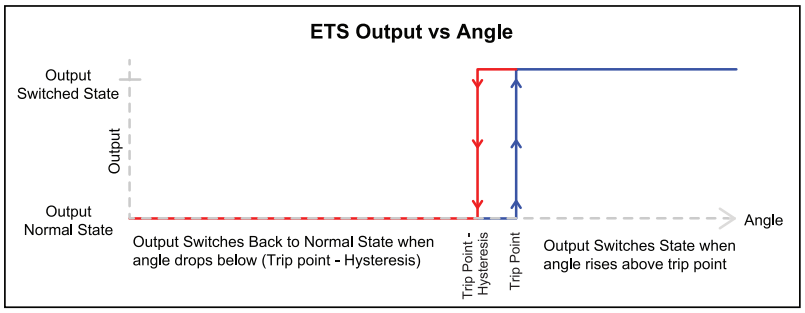
12mm



GT 4 Pin



GRAPH

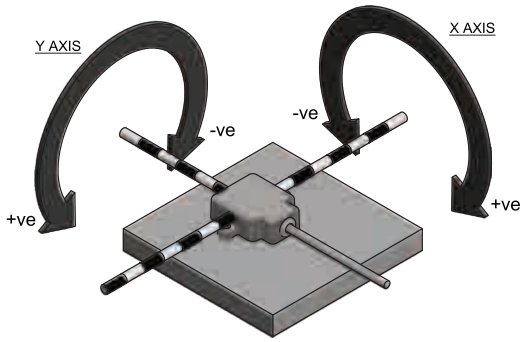


TECHNICAL DATA

Accuracy @ 20°C	0.5°
Environmental Protection	Up to IP 69K
Materials	Housing: Zinc die-cast Housing Finish: Black powder coat
Number of Axis	Single: 1 Dual: 2
Output Current	1Amp Max (each)
Output Format	Sourcing
Output Type	Supply 1V Max
Supply Voltage	12-24 VDC
Temperature Drift	+/- 1° Maximum
Temperature Range	-40° to +85°C
Cable Type	PVC (PUR on request. Consult Factory)
Wire Gauge	24 AWG

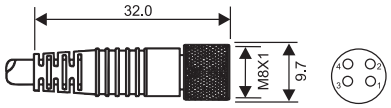
MOUNTING / SENSING ORIENTATION

Mounted on Horizontal Surface



(ADDITIONAL) MATING CORDSETS / PIN CONFIGURATION

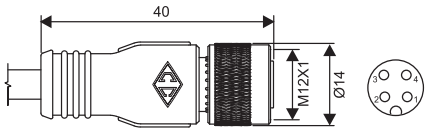
8mm female molded locking connector



Brown = Pin 1
White = Pin 2
Blue = Pin 3
Black = Pin 4

Order P/N:
RC08-AFM040-0120C10A (2m length)
RC08-AFM040-0150C10A (5m length)

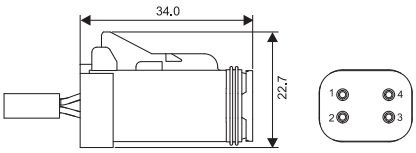
12mm female molded locking connector



Brown = Pin 1
White = Pin 2
Blue = Pin 3
Black = Pin 4

Order P/N:
RC12-AFM040-0120C10A (2m length)
RC12-AFM040-0150C10A (5m length)

GT Deutsch style locking plug



Brown = Pin 1
Blue = Pin 2
Black = Pin 3
Green = Pin 4

Order P/N:
GT0604-U000-1A (2m length)
GT0604-X000-1A (5m length)

ORDERING INFORMATION

ETS10-100□-3□□□-2□1-□

Axis
1 - Single
2 - Dual

Sign
+ - Positive
- - Negative

Trip Point
15 - 15°
30 - 30°
45 - 45°
60 - 60°
85 - 85°

Connection Options
0 - 9 ft PVC cable
1 - 8mm quick connect male pigtail*
2 - 12mm quick connect male pigtail*
3 - GT04 4 pin receptacle Deutsch style pigtail*
**Mates with cordsets shown above*
Consult factory for PUR and shielded versions

Output State
1 - Normally OFF
2 - Normally ON

Ordering Example: ETS10-1001-3+15-211-0
Single Axis, +15° Trip Point, Normally Off, 9 ft. PVC cable.

We appreciate your business!

canfield connector

8510 Foxwood Court ◆ Youngstown, OH 44514

1-800-554-5071

Ph:(330)758-8299 ◆ Fx:(330)758-8912

www.canfieldconnector.com

A56-2026 Rev. 06
5/22