canfield connector
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SERIES 8F

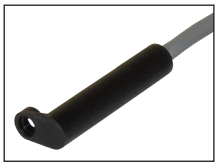
REED SENSORS FOR UNIVERSAL APPLICATION

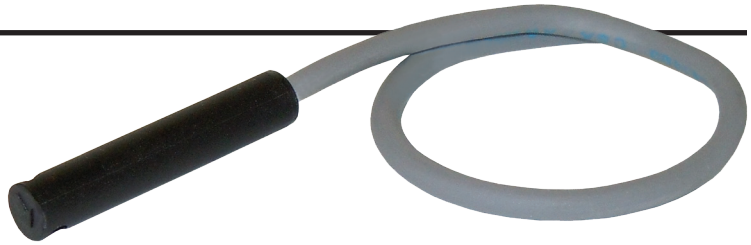
General Description

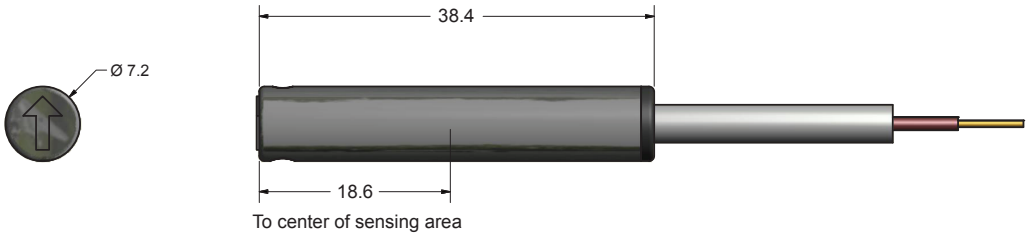
The Canfield Connector Series 8F is a compact yet rugged magnetic reed type proximity sensor designed for rigorous applications where critical magnetic sensing is needed. The tough nylon shell is over-molded with polyurethane to create an environmentally resilient seal from the elements and is rated to IP67. The compact size and cylindrical shape are ideal for mounting in a simple hole or cylindrical shape. There is a tab mounting version also available. The 8F can be mounted solidly and fit into many common magnetic sensing applications. Offered standard with 9ft. cord or an M8 quick connect connector, the switch is also available in either normally open or normally closed switch types.

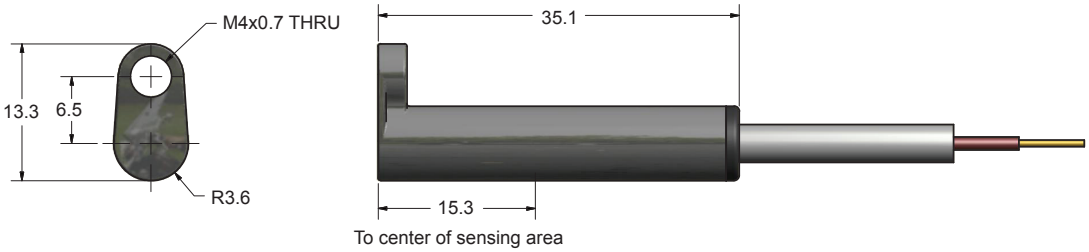
Dimensional Data

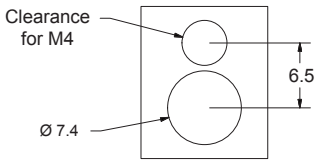
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED

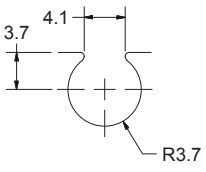




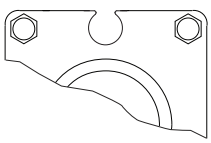








GROOVE DIMENSIONS



Features

- Small sensor fits most space requirements
- Corrosion and washdown resistance
- Compatible with IS (Intrinsically Safe) barriers
- Molded construction for wet environments (NEMA 6 / IP67)

Technical Data

- Temperature Range: Operational from -20° to +80°C
- Shock: Operational up to 30G (11 ms.)
- Vibration: Operational up to 20G (10-55 Hz)
- Environmental Protection: NEMA 6 / IP67
- Sensitivity and Orientation: 85 Gauss parallel

Ordering Information

8 F 1 0 - □ 0 0 - □ □ □

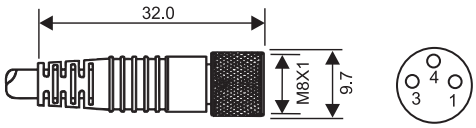
Clamp Styles
0 - Straight body with set screw
1 - Straight body with mounting tab

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

*Mates with cordsets shown at right.

Mating Cordsets

8mm female molded locking connectors



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

Order part number

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

Type	Description	Function	Switching Voltage	Switching Current	Switching Power	Voltage Drop	** Magnetic Sensitivity
01	Reed Switch	Normally Open	0 - 120V AC/DC	2 Amps Max.	40 Watts Max.	0 Volts	85 Ga.
06	Reed Switch	SPDT	0 - 120V AC/DC	0.25 Amps Max.	5 Watts Max.	0 Volts	85 Ga.
09	Reed Switch	Normally Closed	0 - 120V AC/DC	0.25 Amps Max.	5 Watts Max.	0 Volts	85 Ga.

**Minimum gauss rating required for proper operation; as measured 4.5 above sensing surface.
Size of sensing area depends upon size and strength of magnet and thickness of cylinder wall.

Ordering Example:

8F10-000-001

Straight body with set screw, 9 ft. cable,
reed switch, normally open, 0 - 120V AC/DC