canfield connector
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SERIES 9F
REED \& ELECTRONIC SENSORS FOR UNIVERSAL APPLICATIONS 4mm "T" SLOT

## General Description

The Canfield Connector Series 9F 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 4 mm "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 8 mm quick connect male pigtail. The rugged, fully encapsulated switch is shipped with mounting hardware ready for installation.


## Technical Data

- Material: Nylon, TPU and PVC
- Temperature Range: Operational from $-20^{\circ}$ to $+80^{\circ} \mathrm{C}$
- Shock: Operational up to 30 G ( 11 ms .) reeds only. Not applicable for electronic.
- Vibration: Operational up to $20 \mathrm{G}(10-55 \mathrm{~Hz})$ reeds only. Not applicable for electronic.
- Sensitivity and Orientation: 85 gauss parallel (standard for reeds) 25 gauss parallel (standard for electronic)


## Features

- Small sensor fits most space requirements.
- Stand-alone mounting into any 4mm "T" slot (machined or extruded)
- Indicator light
- Corrosion and washdown resistant.
- Electronic sensing version (no moving parts)
- $60^{\circ}$ wire outlet for close mounting
- Reverse polarity protection
- Compatible with IS (Intrinsically Safe) barriers
- High temperature versions available

9F10-000- $\square \square \square$

## Connection Options

0-9 ft PVC cable
3-8mm quick connect male pigtail ${ }^{*}$
*Mates with cordsets shown at right.

Mating Cordsets
8 mm female molded locking connectors


Order part number
Brown = Pin 1
Blue $=\operatorname{Pin} 3$
RC08S-F0M030120 (2m length)
Black $=$ Pin 4

| Type | Description | Function | Switching Voltage | Switching Current | Switching Power | Switching Speed | Voltage Drop | Magnetic Sensitivity |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 01 | Reed Switch | Normally Open SPST | $\begin{gathered} 0-120 \mathrm{~V} \mathrm{AC/DC} \\ 50 / 60 \mathrm{~Hz} \end{gathered}$ | 0.25 Amps Max. | 5 watts Max. | 0.4 ms operate 0.1 ms release | 0 Volts | 85 Ga . |
| 02 | Reed Switch for PLC's, LED (current limiting) | Normally Open SPST | $\begin{gathered} 5-120 \mathrm{~V} \text { AC/DC } \\ 50 / 60 \mathrm{~Hz} \end{gathered}$ | 0.03 Amps Max. <br> 0.001 Amps Min. | 4 watts Max. | 0.4 ms operate 0.1 ms release | 3.5 Volts <br> @ 5mA | 85 Ga . |
| 31 | Electronic for Reed Magnet, LED \& Sourcing | Normally Open PNP | 5-28VDC | 0.2 Amps Max. | 4.8 watts Max. | $4 \mu$ s operate $4 \mu$ s release | 1.0 Volts | 25 Ga . |
| 32 | Electronic for Reed Magnet, LED \& Sinking | Normally Open NPN | 5-28VDC | 0.2 Amps Max. | 4.8 watts Max. | $4 \mu$ s operate $4 \mu$ s release | 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 $50 / 60 \mathrm{~Hz}$

