



9E SERIES

REED & ELECTRONIC
MAGNETIC SENSORS FOR
UNIVERSAL APPLICATIONS

GENERAL DESCRIPTION

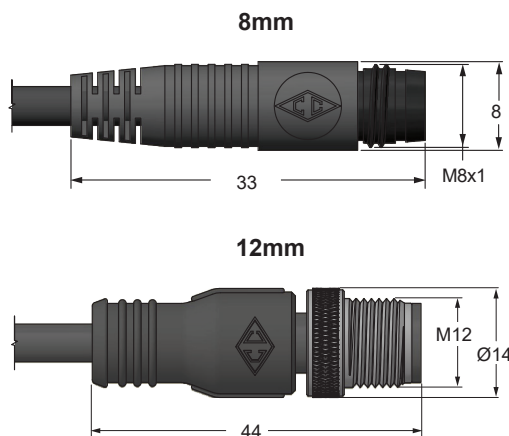
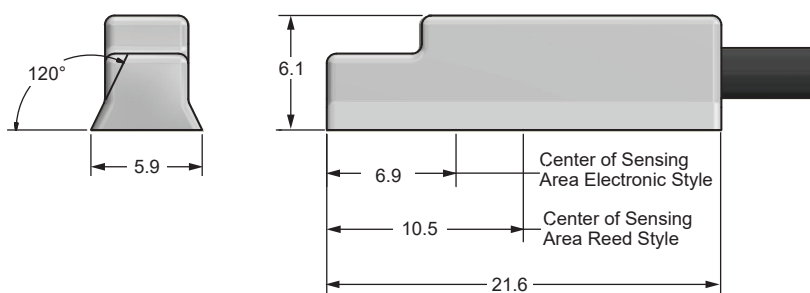
The Canfield Connector 9E Series is a universal, ultra-small, magnetic proximity switch available in both solid state electronic and reed styles. These sensors are designed to fit the most stringent space requirements by use of a standard .250 inch dovetail slot. Many other mounting options are also 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. Available options include 9ft. PVC, the 8mm quick connect male pigtail, or the Dual Sensors with 12mm quick connect male pigtail. The rugged switch is shipped with mounting hardware ready for installation.



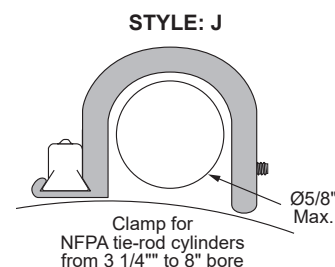
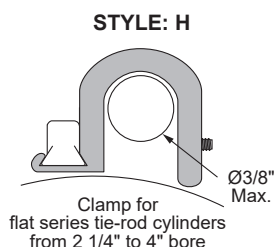
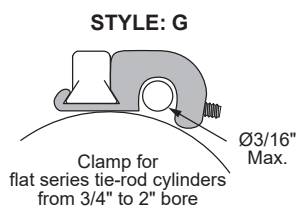
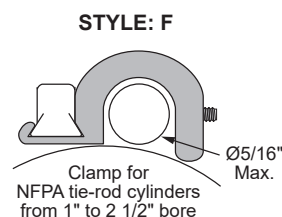
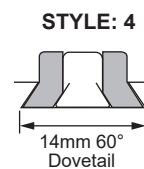
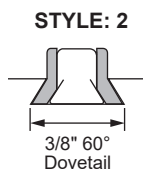
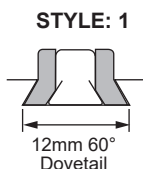
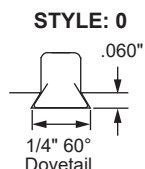
DIMENSIONAL DATA

All dimensions are in millimeters unless otherwise noted.

CONNECTION OPTION



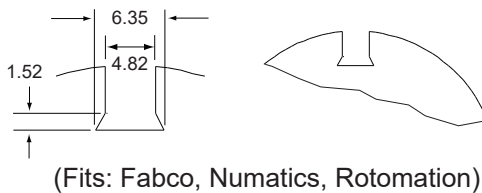
MOUNTING / CLAMP STYLES



TECHNICAL DATA

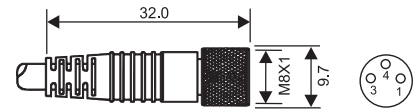
Switch Type / Tech. Specs.	See Ordering Information [†]
Sensitivity / Orientation	Electronic: 25 Gauss Parallel Reed: 85 Gauss Parallel (measured from sensor surface)
Shock	Up to 30G (11mS) Reed Only (not applicable for electronics)
Vibration	Up to 20G (10-55 Hz) Reed only
Materials	Cable: PVC House: 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



(ADDITIONAL) MATING CORDSETS / PIN CONFIGURATION

8mm female molded locking connector

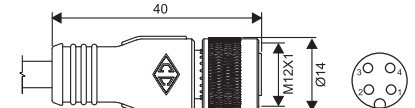


Brown = Pin 1
Blue = Pin 3
Black = Pin 4

Order P/N:

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

12mm female molded locking connector



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)

ORDERING INFORMATION

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*
- 8 - Dual Sensors w/12mm quick connect male pigtail*

*Mates with cordsets shown above

9 E 1 0 - 0 0 -

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

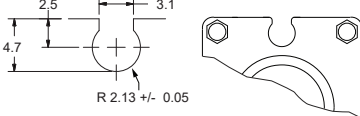
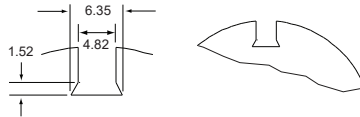
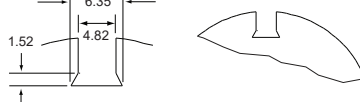
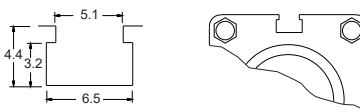
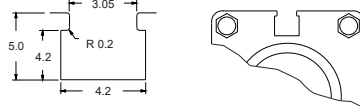
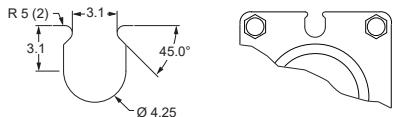
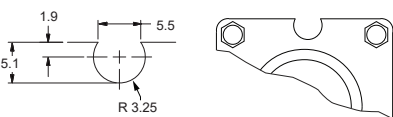
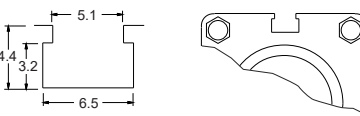
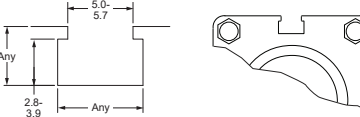
1/4" dovetail, 9 ft. PVC cable, reed switch for PLC's with LED, SPST, normally open, 5 - 120V AC/DC 50/60 Hz



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



Sensor / Groove Cross Reference Chart

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

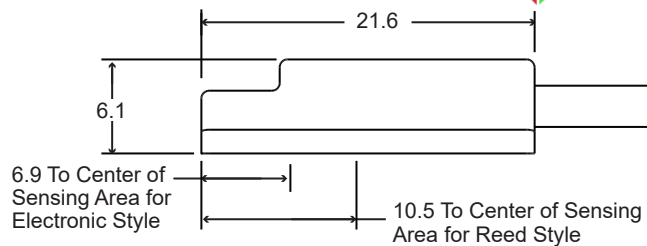
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SERIES 9E TYPE 01, 02, 31 & 32

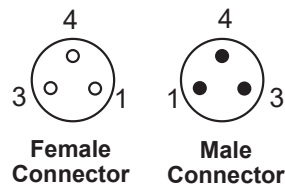
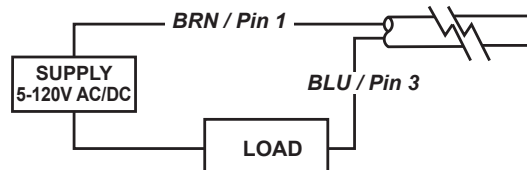
Wiring Diagram



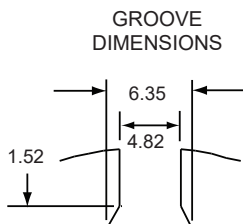
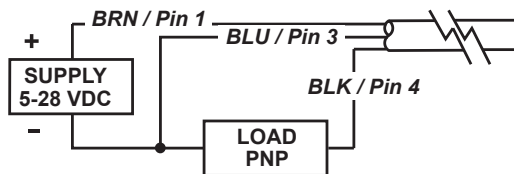
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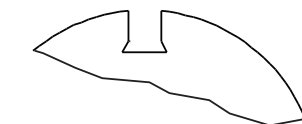
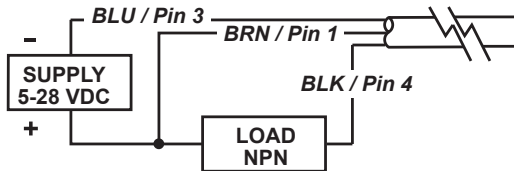
Type 01, 02



Type 31



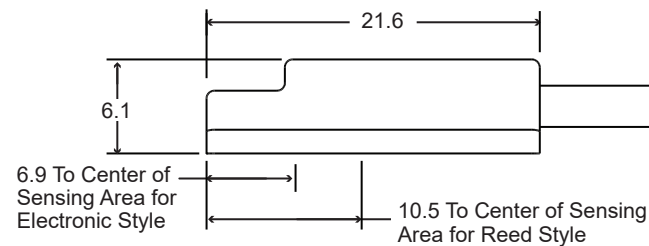
Type 32



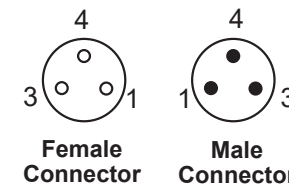
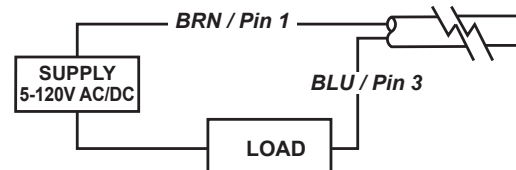
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SERIES 9E TYPE 01, 02, 31 & 32

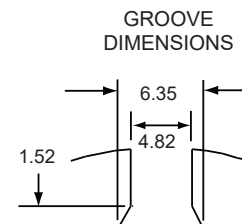
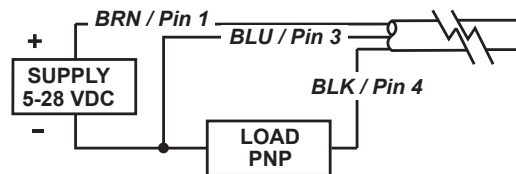
Wiring Diagram



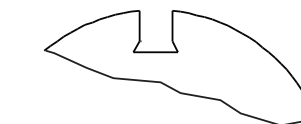
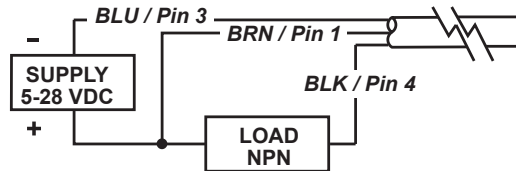
Type 01, 02



Type 31



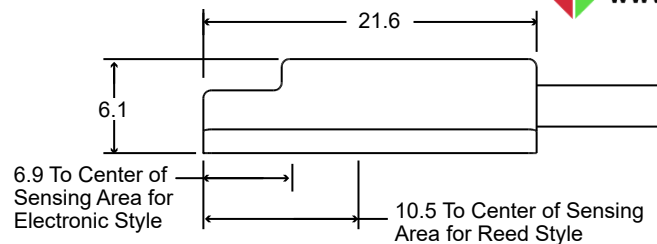
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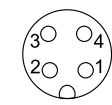
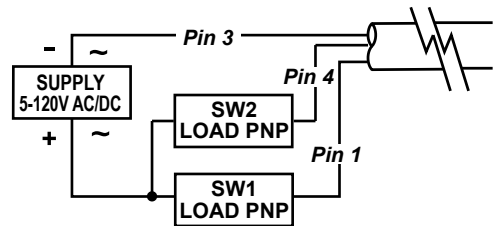
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SERIES 9E DUAL SENSORS TYPE 01, 02, 31 & 32

Wiring Diagram

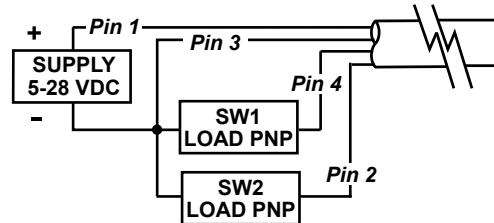


Type 01, 02

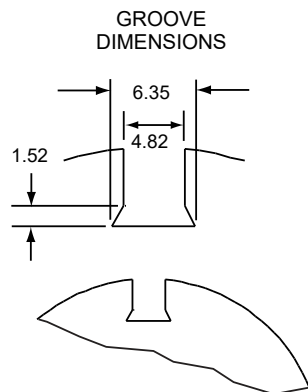
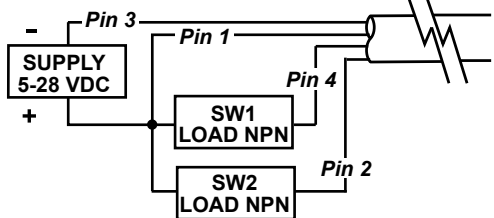


Female Connector Male Connector

Type 31



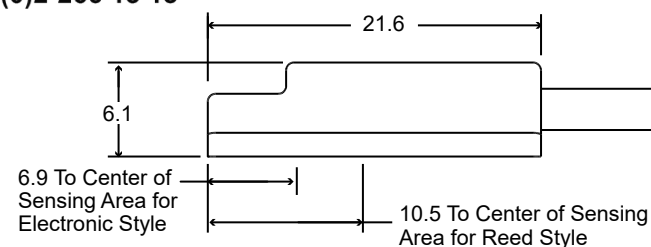
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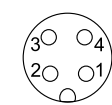
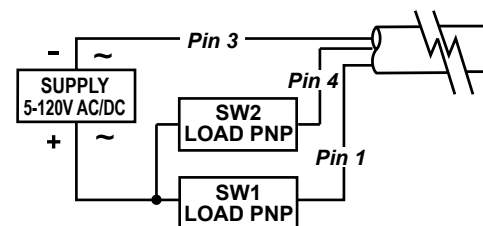
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SERIES 9E DUAL SENSORS TYPE 01, 02, 31 & 32

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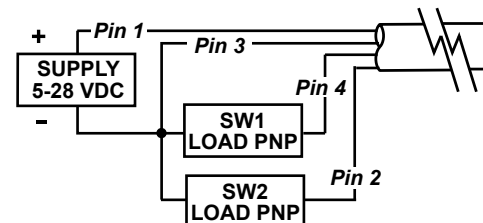


Type 01, 02

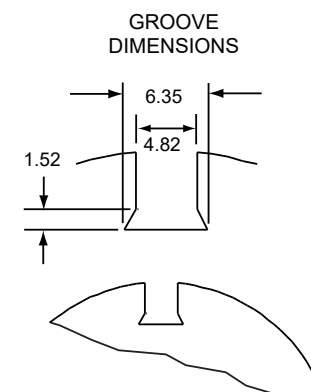
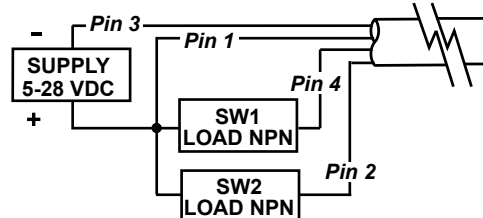


Female Connector Male Connector

Type 31



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