



**canfield
connector**

9H SERIES

REED & ELECTRONIC
MAGNETIC SENSORS FOR
4.2MM "T" SLOT APPLICATIONS

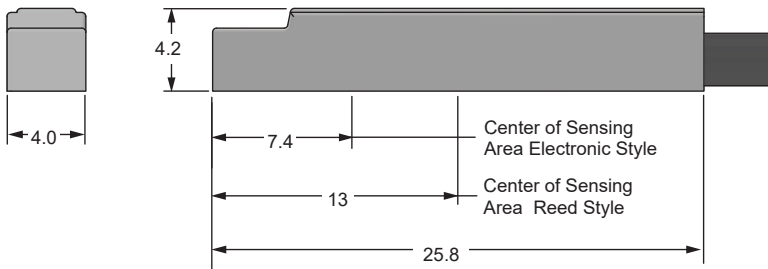
GENERAL DESCRIPTION

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, or the Dual Sensors with 12mm quick connect male pigtail. The switch is IP-67 which is dust tight and water resistant.



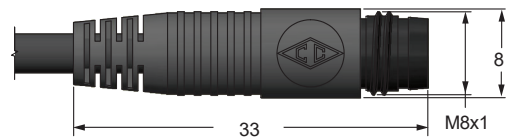
DIMENSIONAL DATA

All dimensions are in millimeters unless otherwise noted.

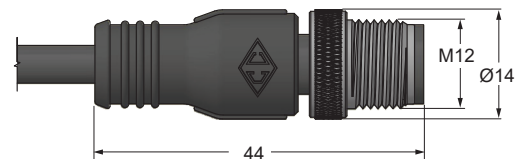


CONNECTION OPTION

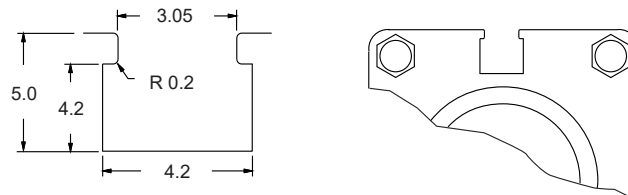
8mm



12mm



GROOVE DETAILS



(Fits: 4x4 groove)

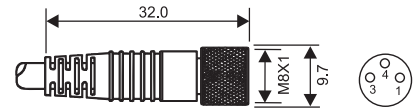


TECHNICAL DATA

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

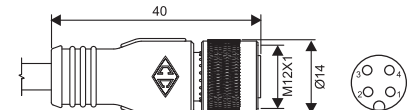


Brown = Pin 1
Blue = Pin 3
Black = Pin 4

Order P/N:

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

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

9 H 1 0 - 0 0 0 -

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

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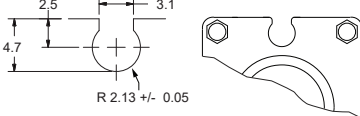
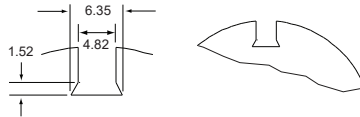
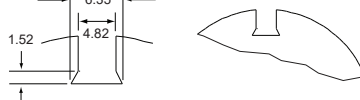
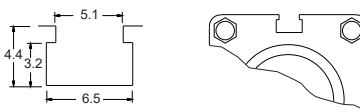
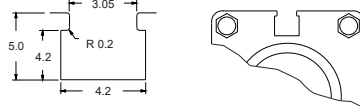
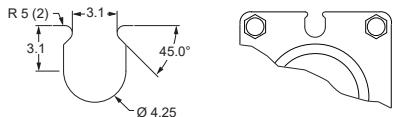
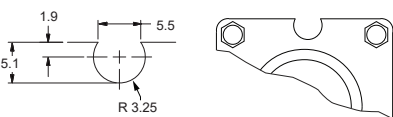
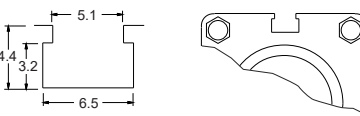
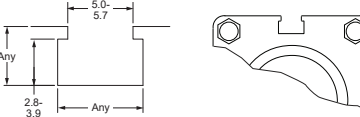
[†]Minimum gauss rating required for proper operation. Size of sensing area depends upon size and strength of magnet and thickness of cylinder wall.

Ordering Example: 9H10-000-032

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



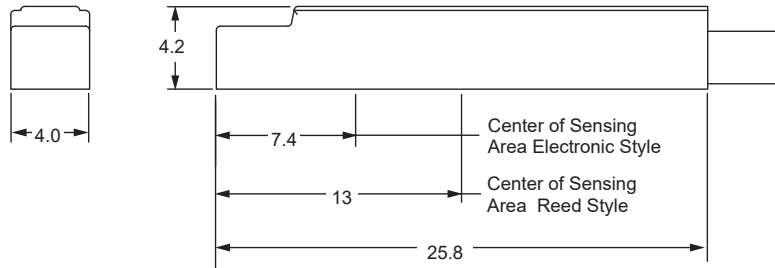
Sensor / Groove Cross Reference Chart

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

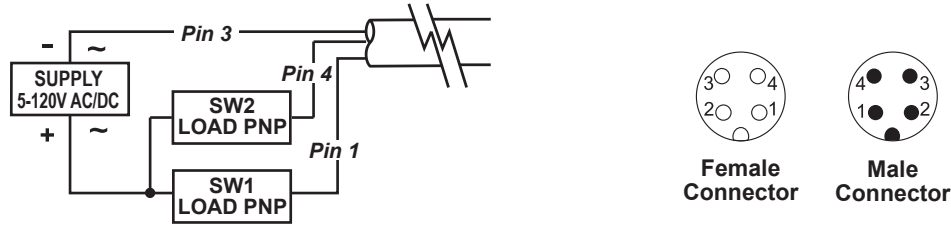
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SERIES 9H DUAL SENSORS TYPE 01, 31 & 32

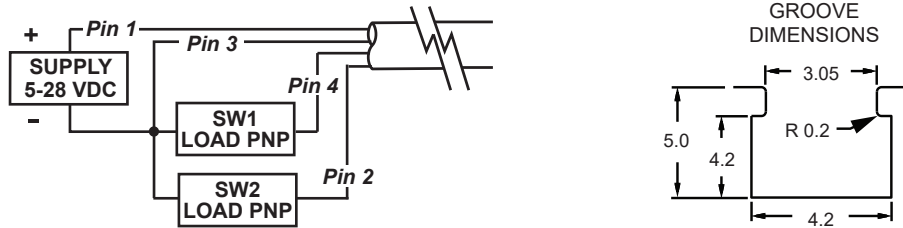
Wiring Diagram



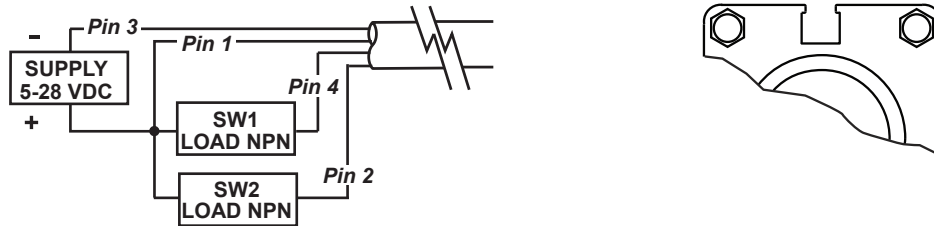
Type 02



Type 31

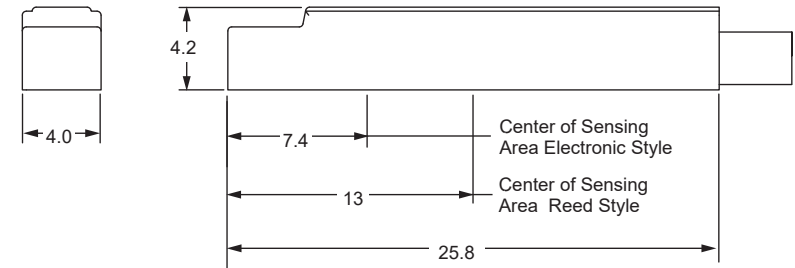


Type 32

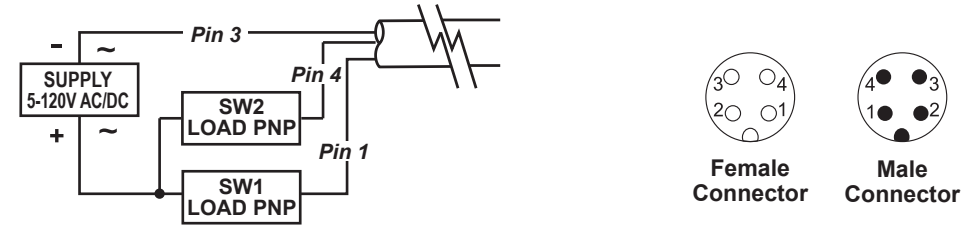


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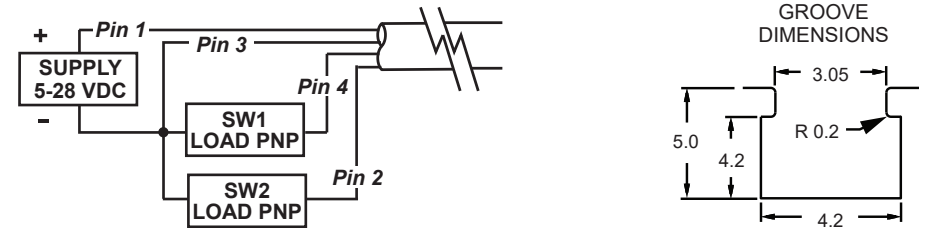
Wiring Diagram



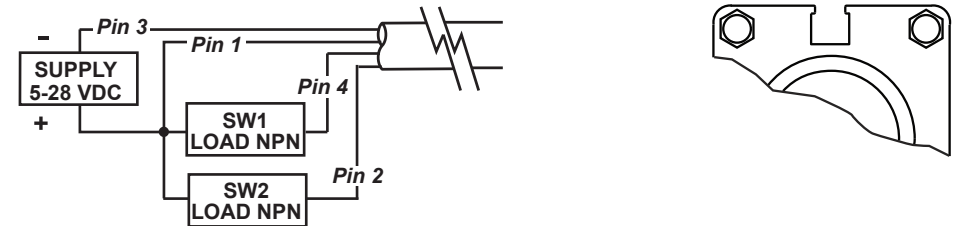
Type 02



Type 31



Type 32

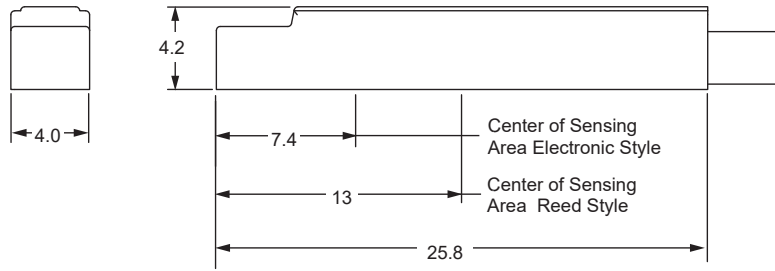


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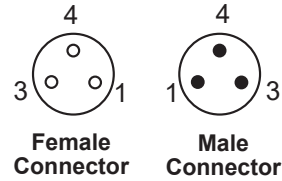
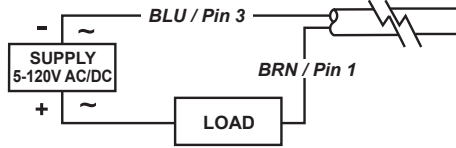
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SERIES 9H TYPE 02, 31 & 32

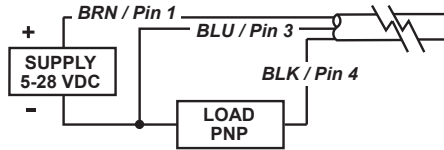
Wiring Diagram



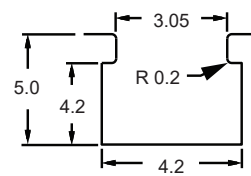
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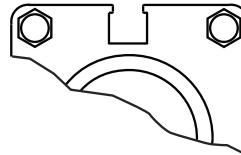
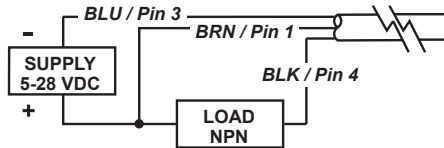
Type 31



GROOVE DIMENSIONS

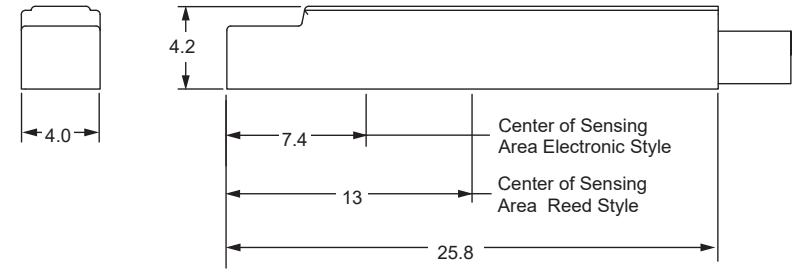


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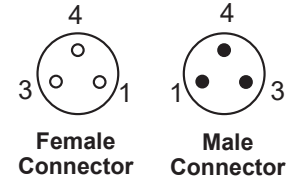
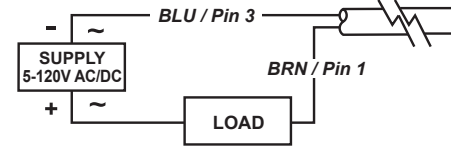


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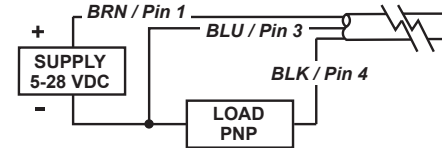
Wiring Diagram



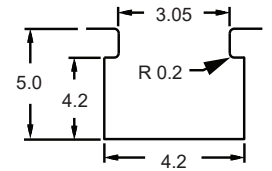
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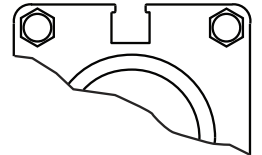
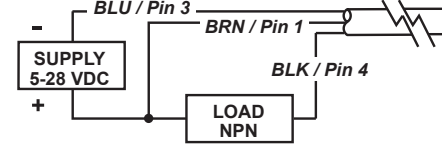
Type 31



GROOVE DIMENSIONS



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