

**canfield
connector**

9M50 SERIES

REED & ELECTRONIC
MAGNETIC SENSORS FOR
6.5MM "D" GROOVE APPLICATIONS

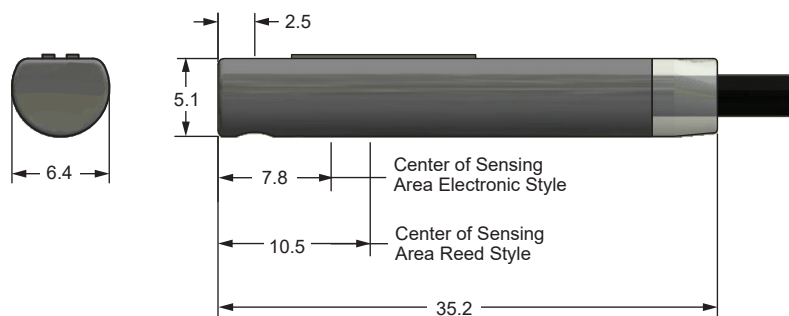
GENERAL DESCRIPTION

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. Options include 9ft. PVC, the 8mm quick connect male pigtail, or the Dual Sensors with 12mm quick connect male pigtail and is proudly made in the U.S.A.

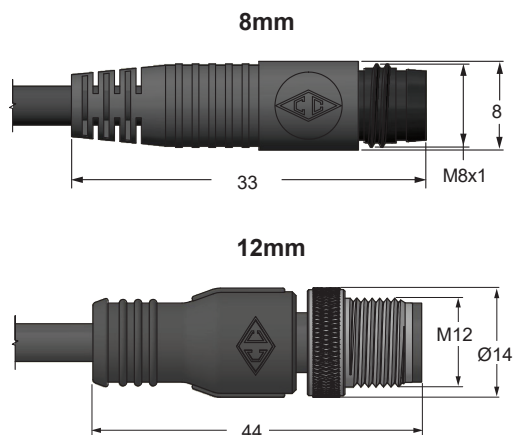


DIMENSIONAL DATA

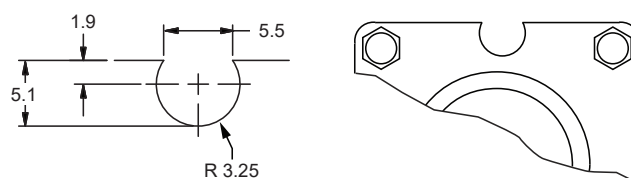
All dimensions are in millimeters unless otherwise noted.



CONNECTION OPTION



GROOVE DETAILS



(Fits: Norgren)

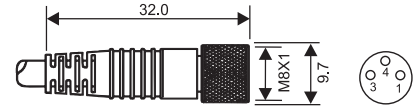


TECHNICAL DATA

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

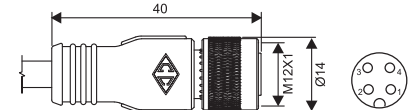


Brown = Pin 1
Blue = Pin 3
Black = Pin 4

Order P/N:

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

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 M 5 0 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
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.

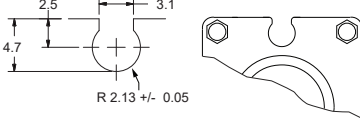
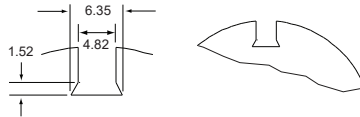
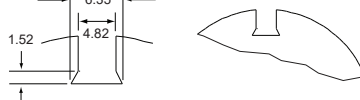
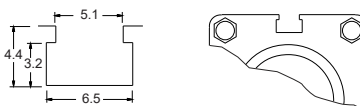
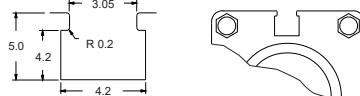
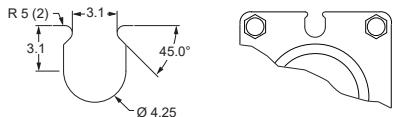
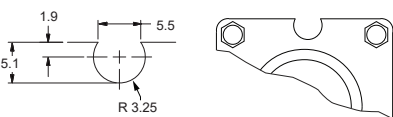
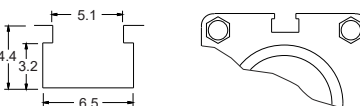
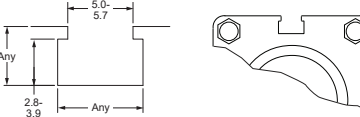
[†]Minimum gauss rating required for proper operation. Size of sensing area depends upon size and strength of magnet and thickness of cylinder wall.

Ordering Example: 9M5010-000-002

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



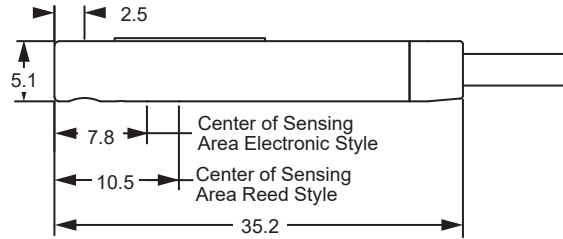
Sensor / Groove Cross Reference Chart

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

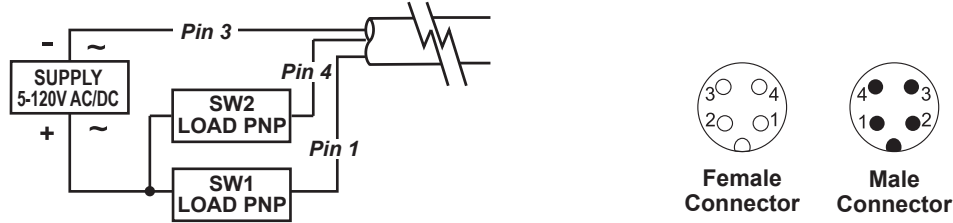
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SERIES 9M50 DUAL SENSORS TYPE 01, 02, 31 & 32

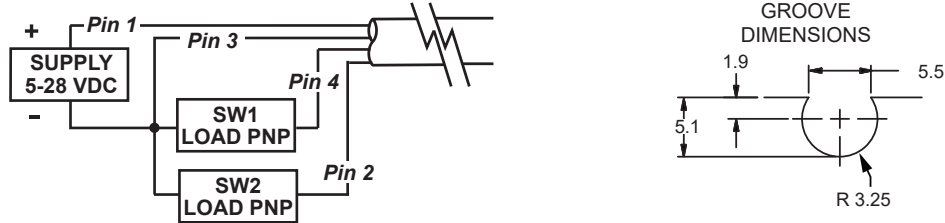
Wiring Diagram



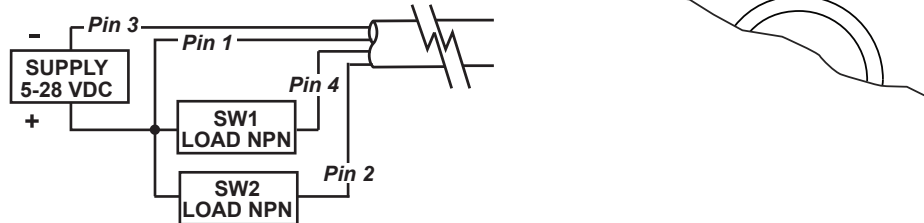
Type 01, 02



Type 31



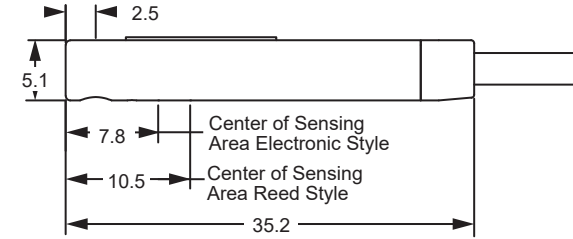
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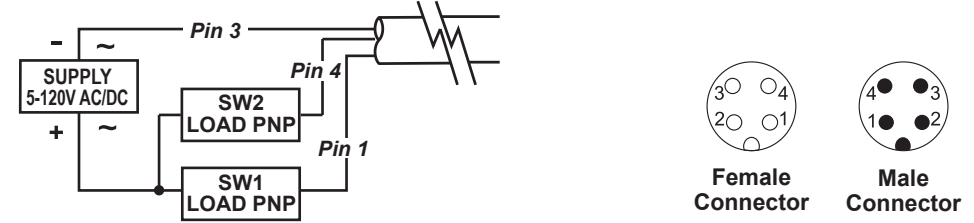
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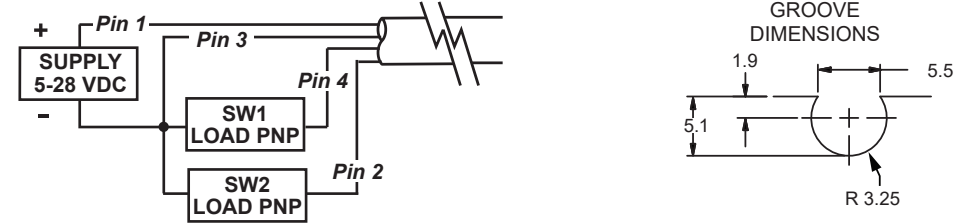
Wiring Diagram



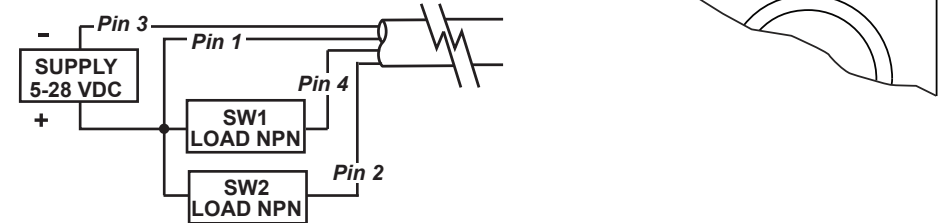
Type 01, 02



Type 31



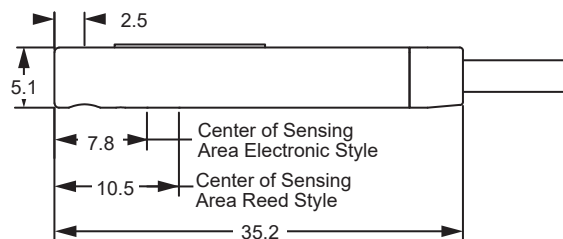
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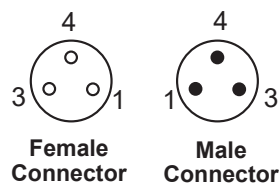
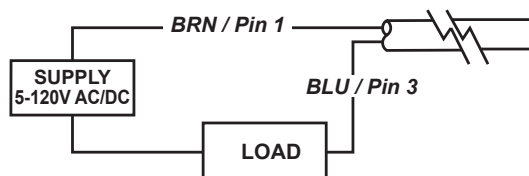
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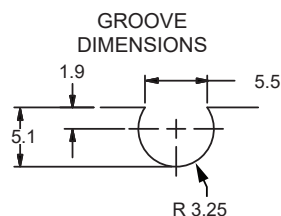
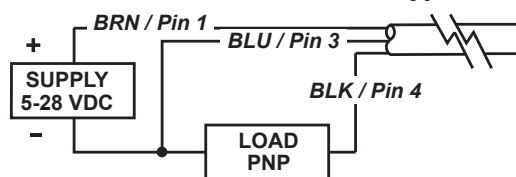
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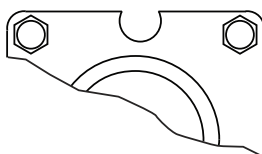
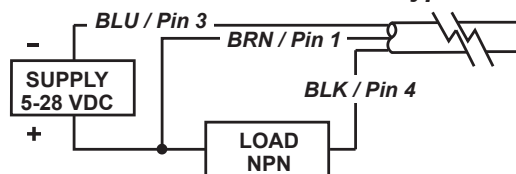
Type 01, 02



Type 31



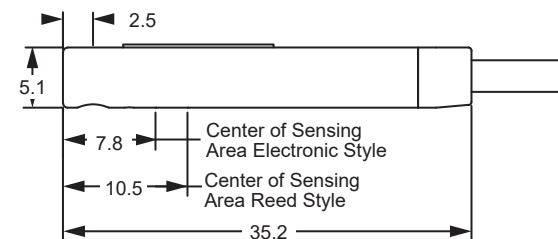
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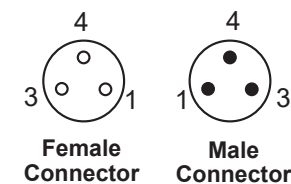
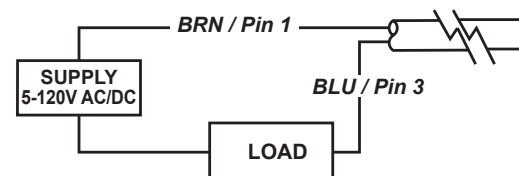
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SERIES 9M50 TYPE 01, 02, 31 & 32

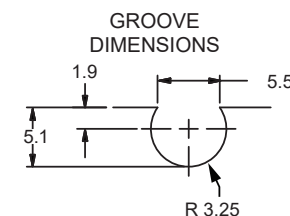
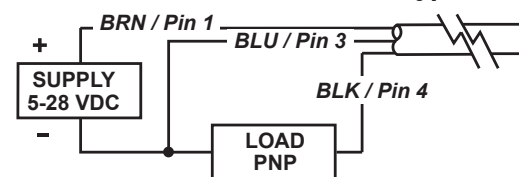
Wiring Diagram



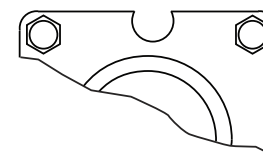
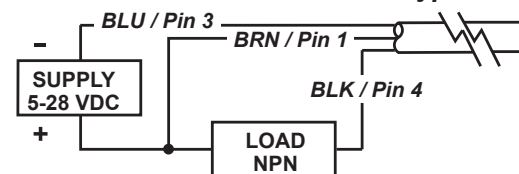
Type 01, 02



Type 31



Type 32



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