



**canfield
connector**

9K SERIES

REED & ELECTRONIC
MAGNETIC SENSORS FOR
4.2MM "U" GROOVE APPLICATIONS

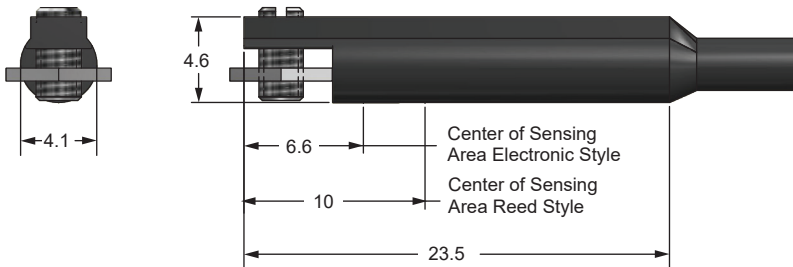
GENERAL DESCRIPTION

The Canfield Connector 9K Series is a profile mounting type switch that fits in a 4.2mm "U" groove which normally is designed into an aluminum extrusion type linear actuator. Available in reed or electronic versions, the 9K 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 IP67 which is dust tight and water resistant.



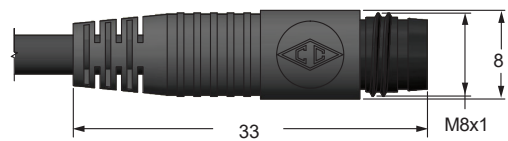
DIMENSIONAL DATA

All dimensions are in millimeters unless otherwise noted.

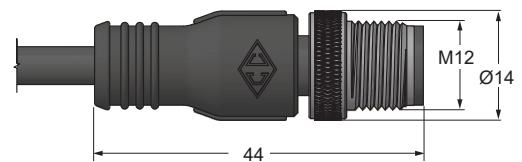


CONNECTION OPTION

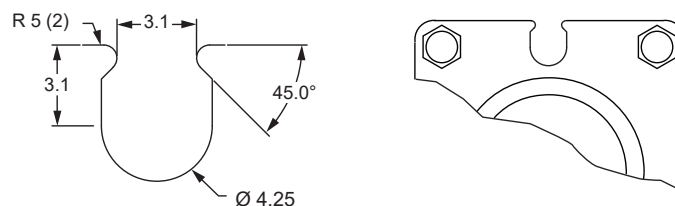
8mm



12mm



GROOVE DETAILS



(Fits: Mindman, Koganei)

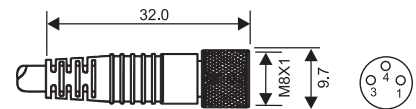


TECHNICAL DATA

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: PBT
Temperature Range	-20° to +80°C
Environmental Protection	Designed for IP 67 / NEMA 6
Cable Diameter	2.8mm
Wire Gauge	26 AWG standard

(ADDITIONAL) MATING CORDSETS / PIN CONFIGURATION

8mm female molded locking connector

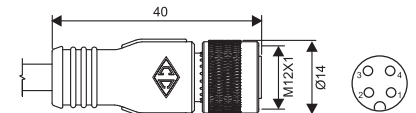


Brown = Pin 1
Blue = Pin 3
Black = Pin 4

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 K 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

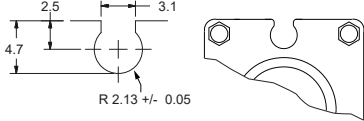
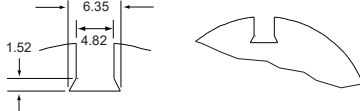
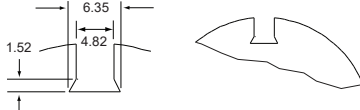
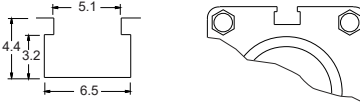
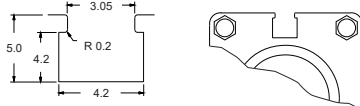
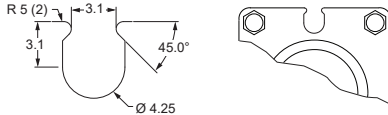
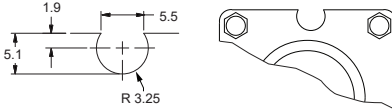
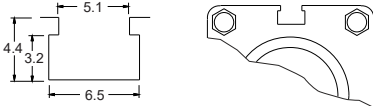
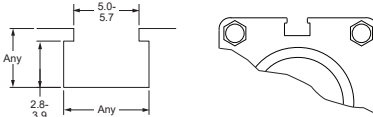
Switch [†] Type	Description	Function	Switching Voltage	Switching Current	Switching Power	Voltage Drop	Magnetic Sensitivity
02	Reed Switch with Red LED	Normally Open SPST	5 - 120V AC/DC	0.03 Amps Max.	4 watts Max.	2.5 Volts	60 Ga.
31	Electronic for Reed Magnet, with Grn LED & Sourcing	Normally Open PNP	5 - 28 VDC	0.2 Amps Max.	4.8 watts Max.	.5 Volts	40 Ga.
32	Electronic for Reed Magnet, with Red LED & Sinking	Normally Open NPN	5 - 28 VDC	0.2 Amps Max.	4.8 watts Max.	.5 Volts	40 Ga.

Ordering Example: 9K10-000-002

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



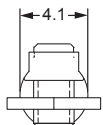
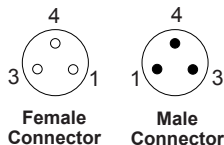
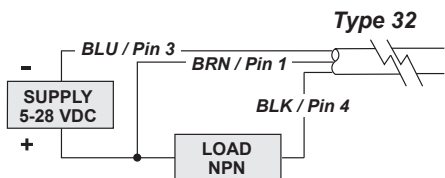
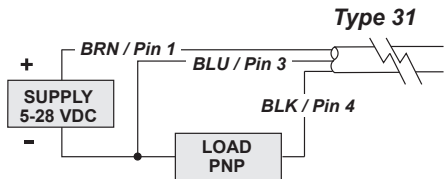
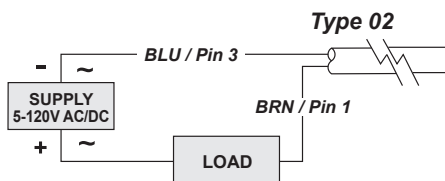
Sensor / Groove Cross Reference Chart

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

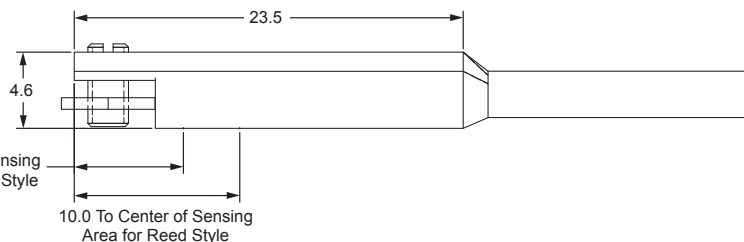
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SERIES 9K TYPE 02, 31 & 32

Wiring Diagram

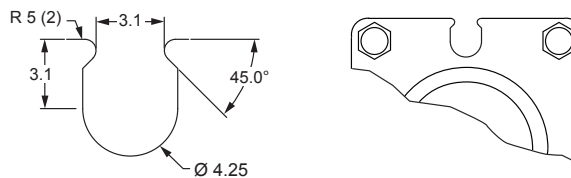


6.6 To Center of Sensing Area for Electronic Style



Switch Type	Description	Function	Switching Voltage	Switching Current	Switching Power	Voltage Drop	*Magnetic Sensitivity
02	Reed Switch with Red LED	SPST	5-120V AC/DC	0.03 Amps Max.	4 watts Max.	2.5 Volts	60 Ga.
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32	Electronic for Reed Magnet, with Red LED & Sinking	NPN	5-28 VDC	0.2 Amps Max.	4.8 watts Max.	.5 Volts	40 Ga.

*Minimum Gauss rating required for proper operation as measured on sensor surface.

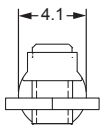
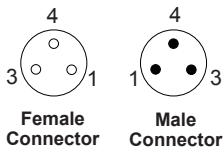
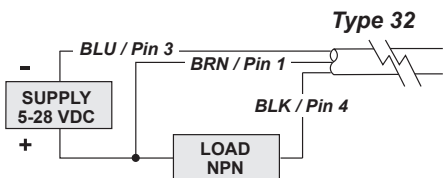
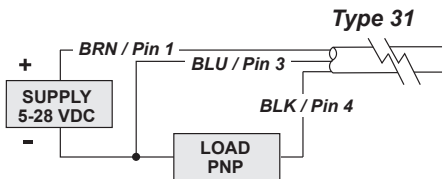
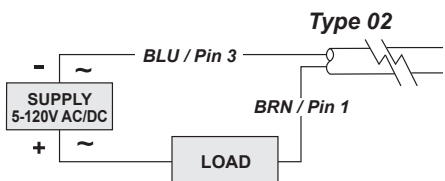


GROOVE DIMENSIONS

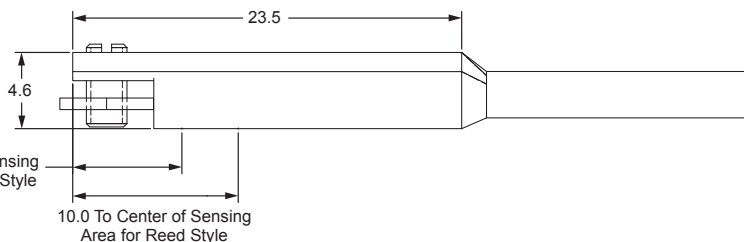
A56-1611 Rev.00

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Wiring Diagram

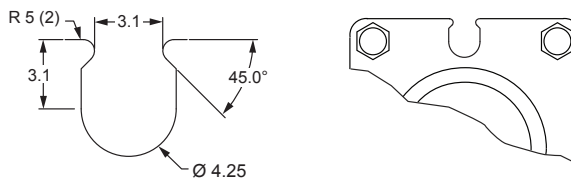


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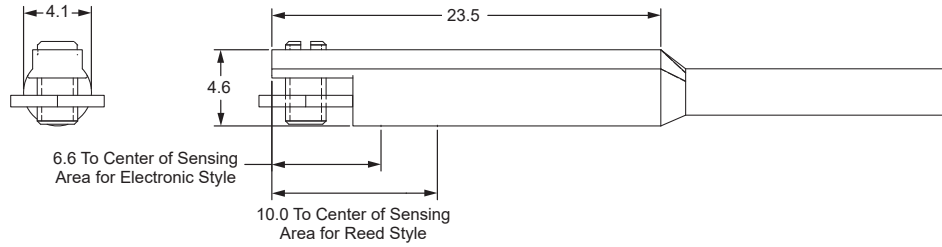


GROOVE DIMENSIONS

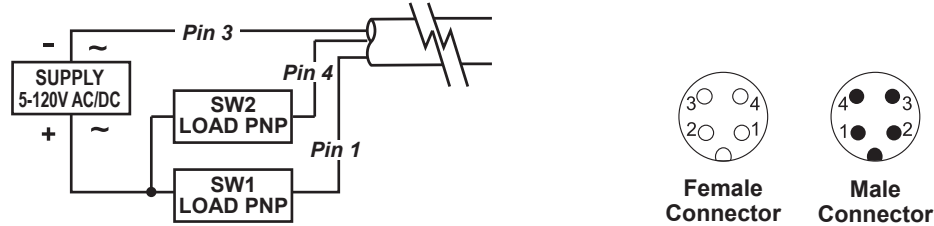
A56-1611 Rev.00

SERIES 9K DUAL SENSORS TYPE 02, 31 & 32

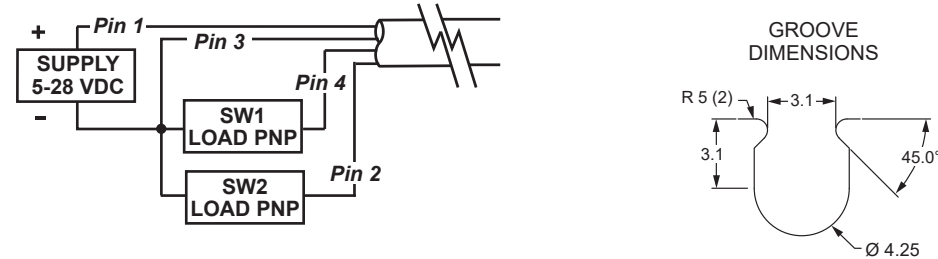
Wiring Diagram



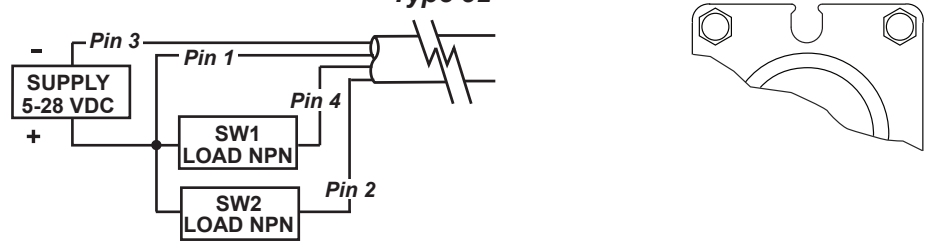
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Type 31

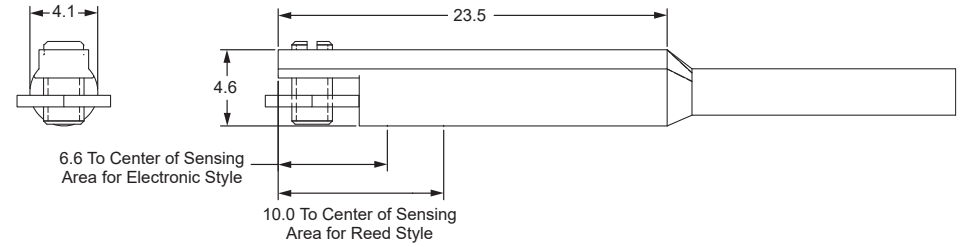


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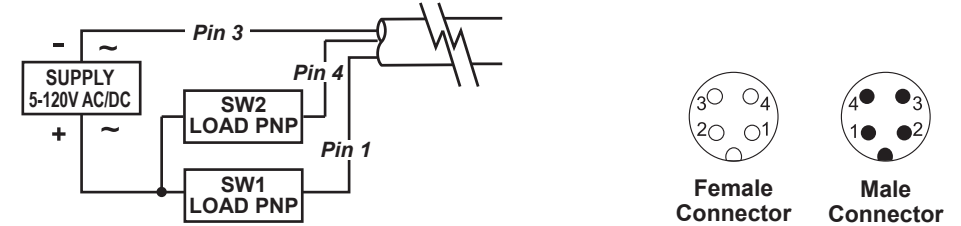


SERIES 9K DUAL SENSORS TYPE 02, 31 & 32

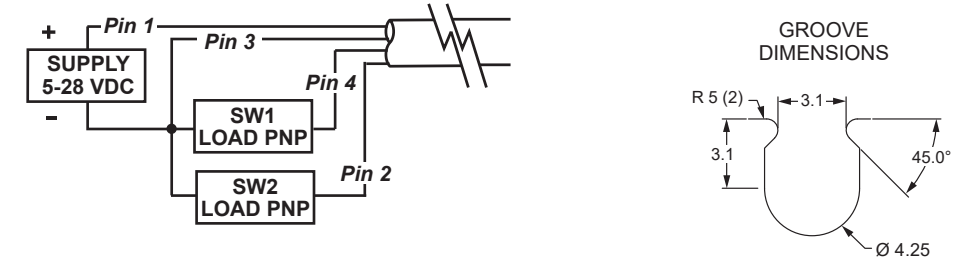
Wiring Diagram



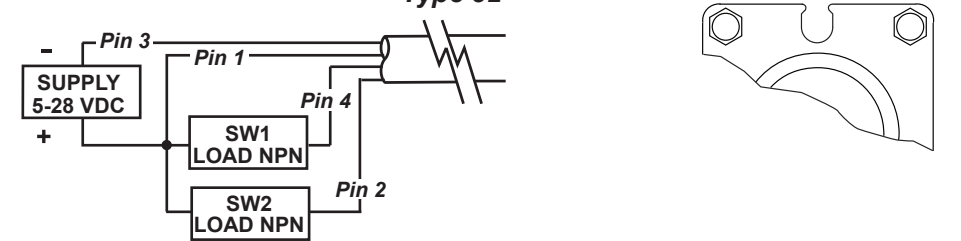
Type 02



Type 31



Type 32



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