

Proximity Sensors

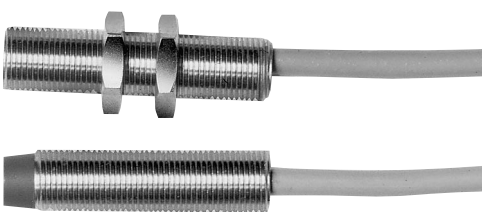
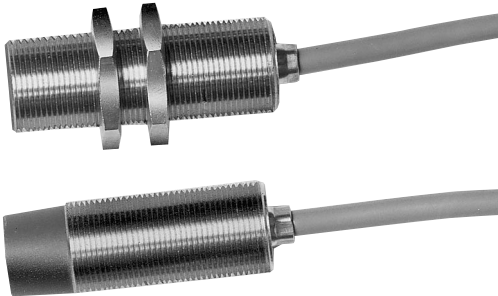
921 Series

8 to 18 mm Diameter Cylindrical Analog 2-wire DC Type

FEATURES

- Sealed to IP 67
- Variable current output
- -25 to +85°C (-13 to +185°F) temperature range

ORDER GUIDE

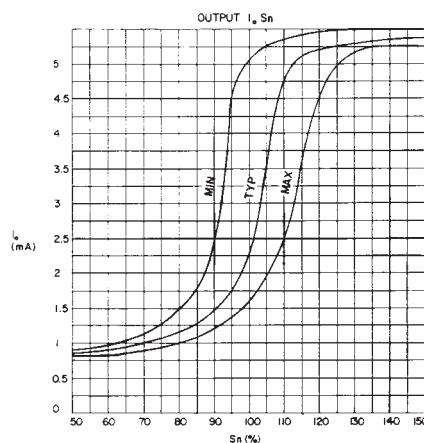
Sensor Package Style	Sensing Range mm (in.)	Sensor Type	LED	Sw. Freq.	Standard Target* mm (in.)	Output Type	Catalog Listing
	1,4 (.05) Shielded	Analog	NO	3 kHz	8 (.31)	Variable Current	921AA1Y
	2,5 (.10) Unshielded	Analog	NO	3 kHz	8 (.31)	Variable Current	921AB1Y
	2 (.08) Shielded	Analog	NO	2 kHz	12 (.47)	Variable Current	921AA2XM
	5 (.20) Unshielded	Analog	NO	2 kHz	15 (.49)	Variable Current	921AB2XM
	5 (.20) Shielded	Analog	NO	1 kHz	18 (.71)	Variable Current	921AA3XM
	8 (.31) Unshielded	Analog	NO	1 kHz	24 (.94)	Variable Current	921AB3XM
104,3g (3.68 oz)							

*Square of mild steel, 1 mm (.04 in.) thick.

SPECIFICATIONS

Sensor Type	2-wire DC
Supply Voltage	5-24 VDC, 5% Ripple
Load Current, max.	10 mA
Leakage Current	NA
Voltage Drop, max.	NA
Current Consumption	10 mA max.
Repeatability, Shielded	±1%
Repeatability, Unshielded	±3%
Sensing Face Material	Polyamide
Housing Material	Nickel-plated brass
Cable Type	PVC jacket, 26 gage

OUTPUT CURVE



Proximity Sensors

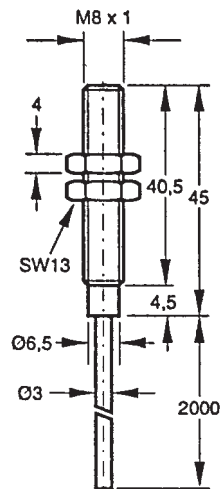
921 Series

8 to 18 mm Diameter Cylindrical

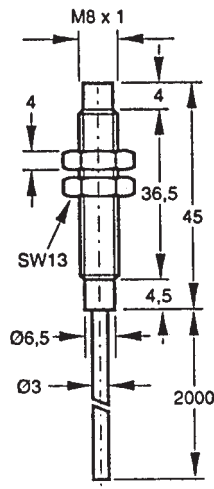
Analog 2-wire DC Type

MOUNTING DIMENSIONS $\frac{\text{mm}}{\text{in.}}$
(For reference only)

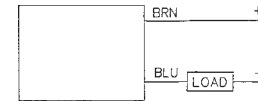
8 mm Shielded



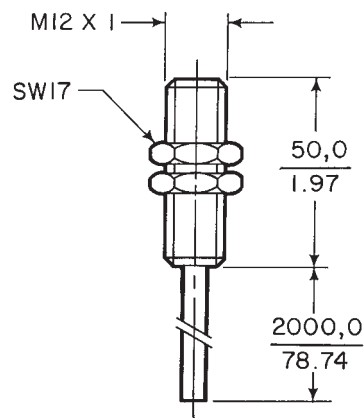
8 mm Unshielded



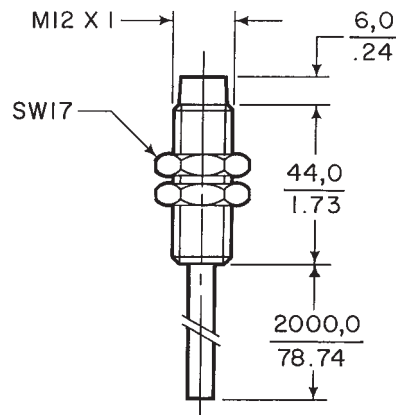
WIRING DIAGRAM



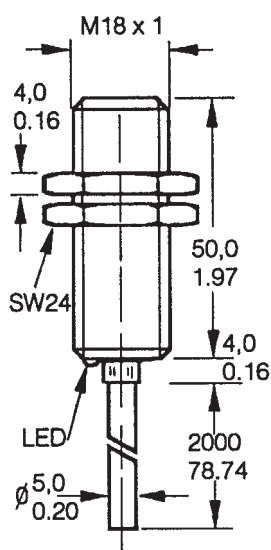
12 mm Shielded



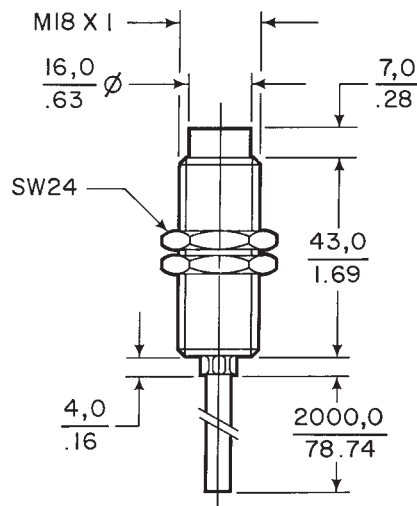
12 mm Unshielded



18 mm Shielded



18 mm Unshielded



Miniature Switch Style Analog 2-wire DC Type

921LC Series

FEATURES

- Sealed to IP 65
- Miniature “Button” housing
- -10 to +65°C (14 to +149°F) temperature range
- Short circuit, overload, reverse polarity protection



ORDER GUIDE

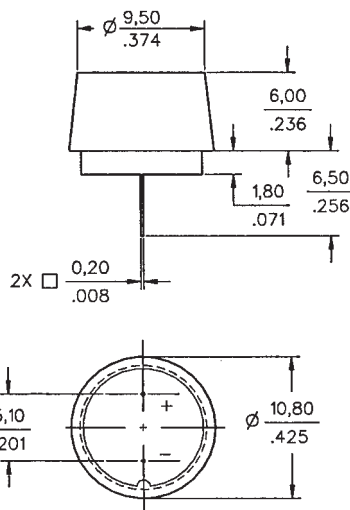
Sensor Package Style	Sensing Range mm (in.)	Sensor Type	Switching Frequency	Output Type	Catalog Listing
	5 (.20)	Analog 2-wire DC	2 kHz	Analog	921LC5

SPECIFICATIONS

Sensor Type	Analog 2-wire DC
Supply Voltage	5 - 15 VDC, 5% Ripple
Load Current	10 mA
Leakage Current	N/A
Voltage Drop, max.	1 VDC
Current Consumption	10 mA
Repeatability	±3%
Switching Frequency	2 kHz
Hysteresis	3-15%
Sealing	IP 65
Temperature Range	-10 to + 65 °C (14 to + 149 °F)
Sensing Face Material	Polyamide
Housing Material	Polyamide
LED	None

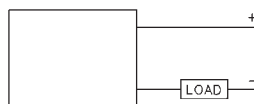
MOUNTING DIMENSIONS

(For reference only) mm/in.



WIRING DIAGRAM

NPN (Sinking) N.O.



Proximity Sensors

924 Series

18 and 30 mm Diameter Cylindrical Linear 3-wire DC Type

FEATURES

- Variable voltage output
- Sealed to IP 67
- Short circuit, overload protection (DC)
- 0 to 60°C operating temperature range

ORDER GUIDE

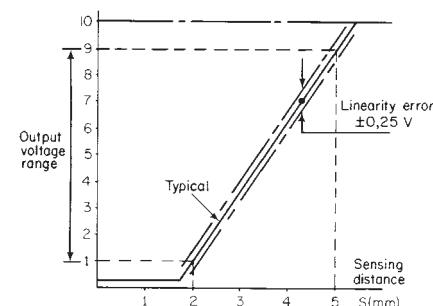
Sensor Package Style	Sensing Range mm (in.)	Sensor Type	LED	Output Type	Standard Target* mm (in.)	Repeatability Max.	Catalog Listing
18 mm (.71 in.)  104,3g (3.68 oz)	2-5 (.079-.197)	3-wire DC	NO	Linear	25 (.98)	.02 mm (.0008 in.)	924AB3XM-L2P
30 mm (1.18 in.)  181,4g (6.4 oz)	4,5-9,5 (.177-.374)	3-wire DC	NO	Linear	50 (1.97)	.03 mm (.001 in.)	924AB4XM-L2P

*Square of mild steel 1 mm (.04 in.) thick.

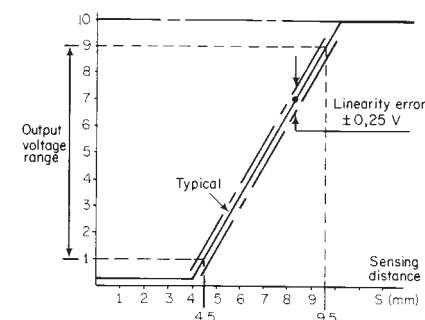
SPECIFICATIONS

Sensor Type	3-wire DC Linear Output
Supply Voltage	13.5-30 VDC (3% max. ripple)
Current Consumption	12 mA @ 30 V
Sensitivity (between 1 & 9 VDC)	2.66 V/mm (18 mm) 1.6 V/mm (30 mm)
Linearity	±0.25 VDC
Output Voltage, min./max.	0.2-10 VDC
Output Voltage Range (Linear)	1 to 9 VDC, 1 KΩ to 22 KΩ load
Response Time	1 V/msec
Load Resistance	800 to 22 K Ohms
Output Impedance	50 ohm max.
Temperature Drift	±2 mV/°C/mm
Sensing Face Material	Ceramic
Housing Material	Nickel-plated brass
Cable Type	PVC jacket, 29 gage

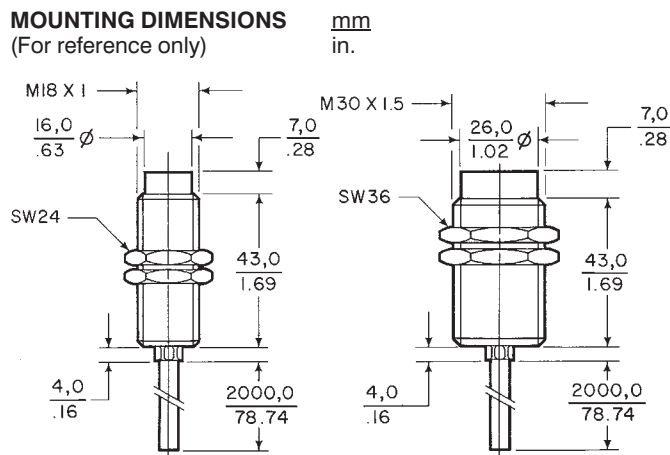
18 mm dia.



30 mm dia.



MOUNTING DIMENSIONS (For reference only)



WIRING DIAGRAM

