

Proximity Sensors

922/982 Series

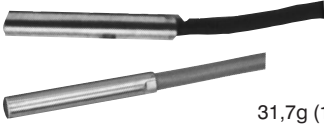
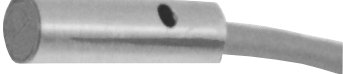
4, 5 and 6,5 mm Diameter Prelead Metal Cylindrical Sensors

3-Wire DC Type

FEATURES

- Sealed to IP 67
- Short circuit, overload, reverse polarity protection
- Conform to CENELEC and IEC standards
- -25 to +70° C (-13 to 158° F) temperature range
- **Stainless alloy housing** (922FS Series)

ORDER GUIDE

Sensor Package Style	Sensing Range mm (in.)	Sensor Type	LED	Sw. Freq.	Standard Target* mm (in.)	Output Type	Catalog Listing
4 mm (.16 in.)  31,7g (1.12 oz)	0,8 (.03) Shielded	3-wire DC	YES	1 kHz	5 (.20)	NPN, N.O.	982FS0,8-A3N-L
						PNP, N.O.	982FS0,8-A3P-L
	0,8 (.03) Shielded	3-wire DC	NO	2 kHz	4 (.16)	NPN, N.O.	922FS0,8-A4N-020
						PNP, N.O.	922FS0,8-A4P-020
5 mm (.20 in.) 	0,8 (.03) Shielded	3-wire DC	YES	1 kHz	5 (.20)	NPN, N.O.	982FS0,8-A3N-G-L
						PNP, N.O.	982FS0,8-A3P-G-L
	0,8 (.03) Shielded	3-wire DC	NO	2 kHz	4 (.16)	NPN, N.O.	922FS0,8-A4N-G-020
						PNP, N.O.	922FS0,8-A4P-G-020
6,5 mm (.26 in.) 	1,4 (.05) Shielded	3-wire DC	YES	600 Hz	8 (.31)	NPN, N.O.	982FS1-A3N-6,5-L
						PNP, N.O.	982FS1-A3P-6,5-L
6,5 mm (.26 in.) 	2,2 (.087) Shielded Extended Range	3-wire DC	NO	500 Hz	8 (.31)	NPN, N.O.	922FC06YA-A3N-L
						PNP, N.O.	922FC06YA-A3P-L

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

SPECIFICATIONS	982 Series	922FC Series	922FS Series
Sensor Type	3-wire DC	3-wire DC	3-wire DC
Supply Voltage	10-30 VDC	8-32 VDC	5-30 VDC
Load Current, min./max.	0-100 mA	0-160 mA	0-100 mA
Leakage Current, max.	10 µA	10 µA	10 µA
Voltage Drop, max.	1 V	1 V	1 V
Current Consumption, max.	25 mA	10 mA	10 mA
Inrush Current	—	—	—
Repeatability, Shielded	± 1%	± 2%	± 1%
Repeatability, Unshielded	± 3%	—	± 3%
Hysteresis	15%	4-20%	3-15%
Sensing Face Material	Thermoplastic Polyester (PBTP)	Polyamide	Ceramic (4 & 5 mm) Polyamide (6,5 mm)
Housing Material	Nickel-plated brass	Aluminum	Stainless alloy
Cable Type	Vinyl jacket	PVC jacket	PVC jacket
Cable Wire Gage	26 gage	26 gage	26 gage

Proximity

Proximity Sensors

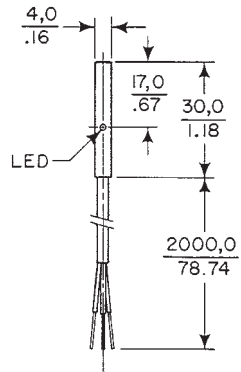
922/982 Series

4, 5 and 6,5 mm Diameter Preloaded Metal Cylindrical Sensors

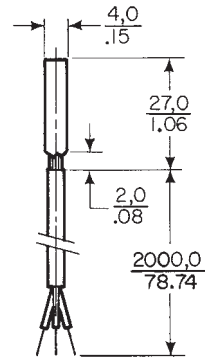
3-Wire DC Type

MOUNTING DIMENSIONS mm
(For reference only) in.

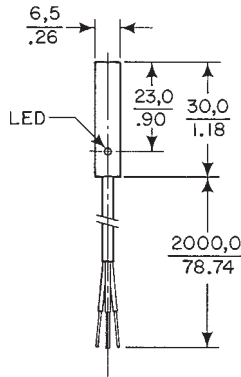
982 Series 4 mm



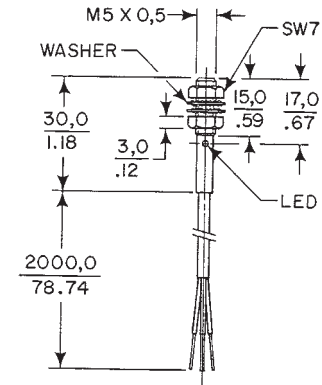
922 Series 4 mm



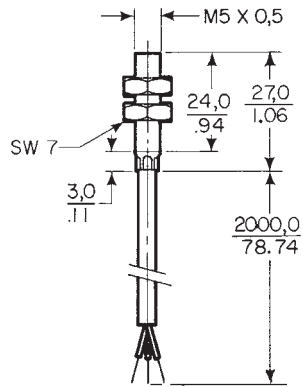
982 Series 6,5 mm



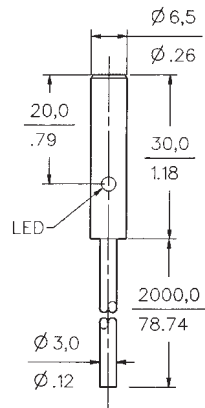
982 Series 5 mm



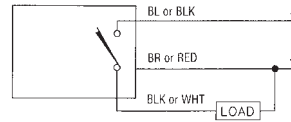
922 Series 5 mm



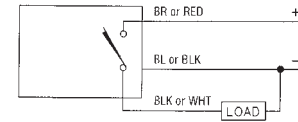
922 Series 6,5 mm



WIRING DIAGRAMS NPN (Sinking) N.O.



PNP (Sourcing) N.O.



Proximity Sensors

922 Series

4, 5 and 6,5 mm Diameter Quick-Connect Metal Cylindrical Sensors 3-Wire DC Type

FEATURES

- Sealed to IP 67
- Short circuit, overload, reverse polarity protection
- Straight or right angle 8 mm Torson style connectors
- **360° ring style LED**
- -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
4 mm Unthreaded (Quick-connect) 	0,8 (.03) Shielded Straight	3-wire DC	YES	2 kHz	5 (.20)	NPN, N.O. PNP, N.O.	922FS0,8E-A2N-L 922FS0,8E-A2P-L
5 mm Threaded (Quick-connect) 	0,8 (.03) Shielded Straight	3-wire DC	YES	2 kHz	5 (.20)	NPN, N.O. PNP, N.O.	922FS0,8E-A2N-G-L 922FS0,8E-A2P-G-L
6,5 mm Unthreaded (Quick-connect) 	1,4 (.06) Shielded Straight	3-wire DC	YES	2 kHz	8 (.31)	PNP, N.O.	922FS1E-A4P-6,5-L

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

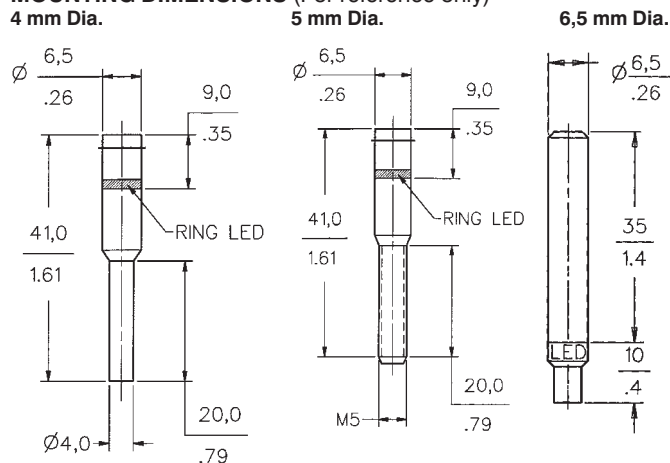
TORSON QUICK-CONNECT CABLES

Type	Style	Length	Volts	Amps	Temp.	Wire Gage	Catalog Listing
3 pin DC	Straight	2m 5m	150	3	100°C	#26 AWG	423●04082●020 423●04082●050
	Right Angle	2m 5m	150	3	100°C	#26 AWG	423●04081●020 423●04081●050

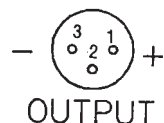
SPECIFICATIONS

	4 & 5 mm	6,5 mm
Sensor Type	3-wire DC	3-wire DC
Supply Voltage	24 VDC	5-30 VDC
Load Current, min./max.	0-100 mA	0-160 mA
Leakage Current, max.	10 µA	10 µA
Voltage Drop, max.	1 V	1 V
Current Consumption, max.	5 mA	10 mA
Inrush Current	—	—
Repeatability, Shielded	± 1%	± 1%
Repeatability, Unshielded	—	± 3%
Hysteresis	3-15%	3-15%
Sensing Face Material	Ceramic	Polyamide
Housing Material	Stainless Steel Alloy	Aluminum
Cable Type		
Cable Wire Gage		

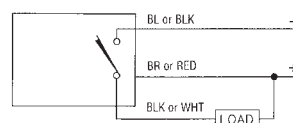
MOUNTING DIMENSIONS (For reference only)



SENSOR PINOUT



WIRING DIAGRAMS NPN (Sinking) N.O.



PNP (Sourcing) N.O.

