

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
8 mm - Embeddable, Miniature Threaded Barrel, Potted-In Cable 	Bi 2-EG08-AG41X	S4562000		2	2-Wire DC
	Bi 2-EG08-AG41X/S1589	S4562088	weldguard	2	
	Bi 1.5-EG08-AN6X	S4602340		1.5	3-Wire DC NPN
	Bi 1.5U-EG08-AN6X	S4600510	Uprox	1.5	
	Bi 2-EG08-AN6X	S4602140	Ext. Range	2	
	Bi 2-EG08-AN6X/S1589	S4602181	weldguard	2	
	Bi 2U-EG08-AN6X	S4602035	Uprox	2	
	Bi 1.5-EG08-AN7X	S1766110	TTL Compatible	1.5	
	Bi 1.5-EG08-AP6X	S4602240		1.5	3-Wire DC PNP
	Bi 1.5U-EG08-AP6X	S4600500	Uprox	1.5	
	Bi 2-EG08-AP6X	S4602040	Ext. Range	2	
	Bi 2-EG08-AP6X/S100	S4602047	High Temp. 100°C	2	
	Bi 2-EG08-AP6X/S957	S4602008	Flush Mount	2	
	Bi 2-EG08-AP6X/S1589	S4602085	weldguard	2	
	Bi 2-EG08-AP6X/S1610	S4602086-1	armorguard	2	
	Bi 2U-EG08-AP6X	S4602032	Uprox	2	
	Bi 1.5-EG08-Y1	S1003500		1.5	2-Wire DC NAMUR
	Bi 2-EG08-AZ14X	S4100001		2	2-Wire AC/DC
	Bi 2-EG08-VP6X	S1604610	Comp. Outputs	2	4-Wire DC PNP
8 mm - Embeddable, Miniature Threaded Barrel, Potted-In Cable, Teflon Coated 	Bi 2-EGT08-AG41X	S4602540		2	2-Wire DC
	Bi 1.5-EGT08-AP/S100	S4602256	High Temp. 100°C	1.5	3-Wire DC PNP

Industrial Automation

TURCK mold-on connectors available on all cable sensors. See page A5.

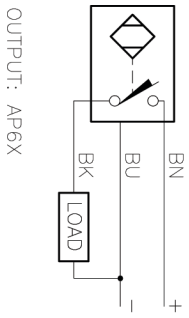


Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length/ Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-55 VDC	1000	≤100	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	4	Diagram 1
	1000	≤100	-25 to +70	IP 67	SS	WG	TROG	N/A	YE	2M/PUR	4	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	Diagram 2
	2000	≤150	-30 to +85	IP 68	SS	PA 12	TROG	N/A	YE	2M/PUR	1	
	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	
	3000	≤150	-25 to +70	IP 67	SS	WG	TROG	N/A	YE	2M/PUR	1	
	2000	≤150	-30 to +85	IP 68	SS	PA 12	TROG	N/A	YE	2M/PUR	1	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	Diagram 3
	2000	≤150	-30 to +85	IP 68	SS	PA 12	TROG	N/A	YE	2M/PUR	2	
	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	
	3000	≤150	-25 to +100	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	
	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	
	3000	≤150	-25 to +70	IP 67	SS	WG	TROG	N/A	YE	2M/PUR	2	
	2000	≤150	-30 to +85	IP 68	SS	PA 12	TROG	N/A	YE	2M/PUR	2	
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	TROG	N/A	N/A	2M/PUR	3	Diagram 4
20-132 VAC 10-140 VDC	20	≤100	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	5	Diagram 5
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	6	Diagram 6
10-55 VDC	1000	≤100	-25 to +70	IP 67	TC	PA 12	TC	N/A	YE	2M/PUR	4	
10-30 VDC	2000	≤150	-25 to +100	IP 67	TC	PA 12	TC	N/A	YE	2M/PUR	2	

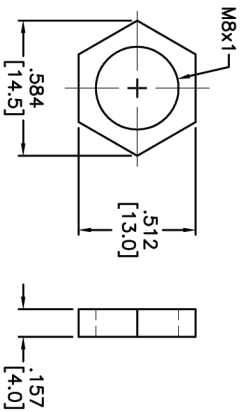


Barrels

WIRING DIAGRAM



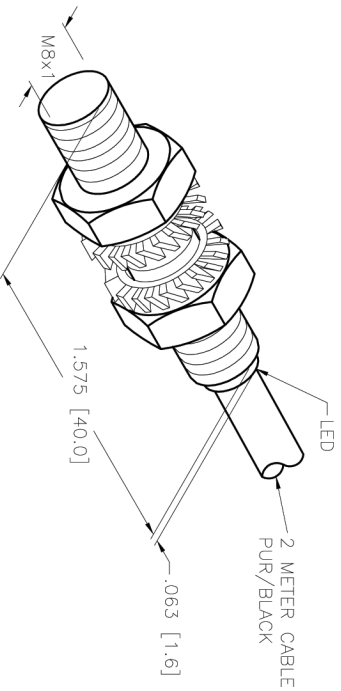
SHORT-CIRCUIT AND OVERLOAD PROTECTED



LOCKNUT LN-SS8

SPECIFICATIONS

OPERATING VOLTAGE	10-30 VDC
RIPPLE	≤10%
DIFFERENTIAL TRAVEL (HYSTERESIS)	3-15% (5% TYPICAL)
VOLTAGE DROP ACROSS CONDUCTING SENSOR	≤1.8 V at 150 mA
OUTPUT FUNCTION	NORMALLY OPEN/3-WIRE DC
TTL COMPATIBLE	NO
SHORT-CIRCUIT PROTECTED	YES
TRIGGER CURRENT FOR OVERLOAD PROTECTION	≥170 mA
CONTINUOUS LOAD CURRENT	≤150 mA
LEAKAGE (OFF-STATE) CURRENT	<100 μA
NO-LOAD CURRENT	1.0-9.5 mA
TIME DELAY BEFORE AVAILABILITY	≤8 ms
POWER-ON EFFECT	Per IEC 947-5-2
REVERSE POLARITY PROTECTION	INCORPORATED
WIRE-BREAK PROTECTION	INCORPORATED
PROTECTION AGAINST TRANSIENTS	Per EN 60947-5-2
OPERATING TEMPERATURE	-25°C to +70°C (-13°F to +158°F)
ENCLOSURE	MEETS NEMA 1, 3, 4, 4X, 6, 13 AND IEC IP67
SHOCK	30 g, 11 ms
VIBRATION	55 Hz, 1 mm AMPLITUDE (IN ALL 3 PLANES)
LED FUNCTION	RED: OUTPUT ENERGIZED
RATED OPERATING DISTANCE(Sn)	1.5 mm = .059" (NOMINAL)
SWITCHING FREQUENCY	2000 Hz
REPEATABILITY	≤2% of RATED OPERATING DISTANCE
EMBEDDABLE (SHIELDED)	YES



NOTE
PRELIMINARY SPECIFICATIONS

SOURCE DRAWING - FOR REFERENCE ONLY

NOTES:

1. MATERIALS:
BARREL - STAINLESS STEEL
LOCKNUTS - STAINLESS STEEL
LOCKWASHERS - STAINLESS STEEL
SENSING FACE - PA12-GF30 PLASTIC
END CAP - TPE-0 ELASTOMER

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P1		JBU	11/06/03		1. SEE NOTES 2. SEE NOTES 3. SEE NOTES 4. SEE NOTES				BI 1.5-EG08-AP6X	S4602240	P1
					FINISH	TOLERANCES UNLESS OTHERWISE SPECIFIED	DRAWN	DATE			
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