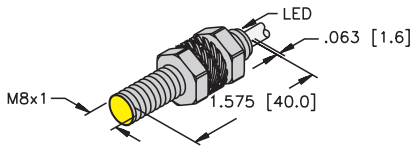
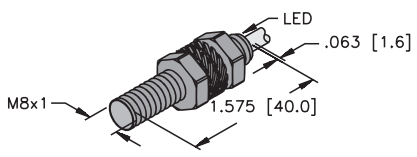
Inductive Sensors



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
Industrial Automation

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 #
10-55 VDC	1000	≤100	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	4
	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
	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
	3000	≤150	-25 to +70	IP 67	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
	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
	3000	≤150	-25 to +70	IP 67	AG	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
20-132 VAC 10-140 VDC	20	≤100	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	5
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	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

Wiring Diagrams

Diagram 1

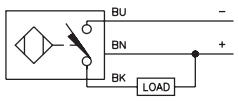


Diagram 2

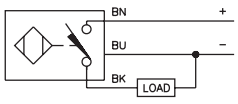


Diagram 3

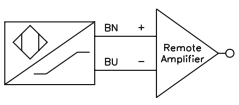


Diagram 4

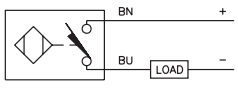


Diagram 5

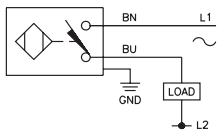
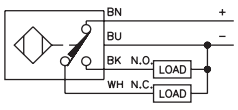
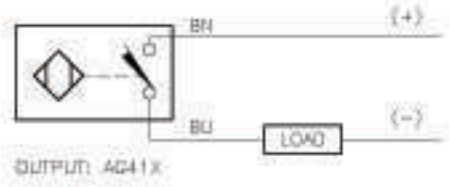


Diagram 6



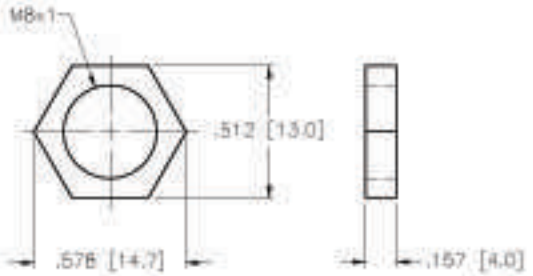
WIRING DIAGRAM



OUTPUT: AG41X

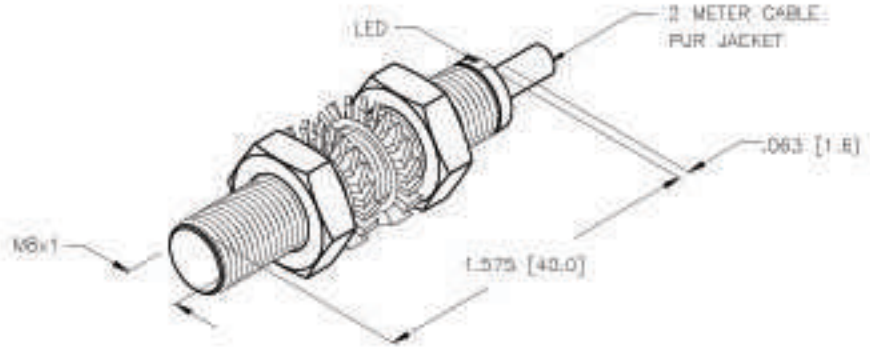
SHORT-CIRCUIT AND OVERLOAD PROTECTED

LOCKNUT: LN-SS08



SPECIFICATIONS

RATED OPERATING DISTANCE(Sn)	2 mm = .079" (NOMINAL)
MOUNTING MODE	FLUSH
DIFFERENTIAL TRAVEL (HYSTERESIS)	1-15% (5% TYPICAL)
MIN. REPEAT ACCURACY	≤ 2%
TEMPERATURE DRIFT	≤ ± 10%
OPERATING TEMPERATURE	-25°C to +70°C (-13°F to +158°F)
RATED OPERATIONAL VOLTAGE	10-55 VDC
RIPPLE	≤10%
RATED OPERATIONAL CURRENT	≤ 100 mA
MAX. OFF STATE (LEAKAGE) CURRENT	≤0.6 mA
MAX. SWITCHING FREQUENCY	≤1 kHz
RATED INSULATION VOLTAGE	≤0.5 kV
SHORT-CIRCUIT PROTECTED	YES, CYCLIC
MAX. VOLTAGE DROP	≤ 3.5 V
CABLE	ø4, LIFYY, PVC, 2 METERS
VIBRATION	55 Hz, 1 mm AMPLITUDE (IN ALL 3 PLANES)
SHOCK	30 g, 11 ms
ENCLOSURE	EC IP67
SWITCHING STATUS INDICATION	LED: YELLOW
OUTPUT FUNCTION	3-WIRE, NORMALLY OPEN



NOTES:

1. MATERIALS:
   BARREL - METAL, AZ 1.4301 (AISI 304)
   LOCKNUTS - STAINLESS STEEL
   LOCKWASHERS - STAINLESS STEEL
   SENSING FACE - PA12-GF20 PLASTIC

REV	DESCRIPTION	BY	DATE	ECO NO
A	DRAWING RELEASE	RDS	12/29/03	

RELATED DOCUMENTS
1.
2.
3.
4.

3RD ANGLE PROJECTION

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TURCK INC
High Technology Sensors and Automation Controls

MATERIAL: SEE NOTES

FINISH: SEE NOTES

TOLERANCES UNLESS OTHERWISE SPECIFIED
.X ±0.01
.XX ±0.01
.XXX ±0.005
ANGLES ±1°
ALL MILLIMETER DIMENSIONS ARE REFERENCE ONLY

DRT: RDS | DATE: 12/29/03
DSGN: BT | SCALE: 1=1.5

UNIT OF MEASUREMENT
INCH [MILLIMETER]
DO NOT SCALE THIS DRAWING

DESCRIPTION: BI 2-EG08-AG41X

IDENTIFICATION NO.: S4562000 | REV: A

FILE: S4562000 | SHEET 1 OF 1