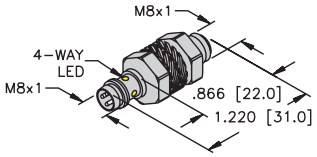
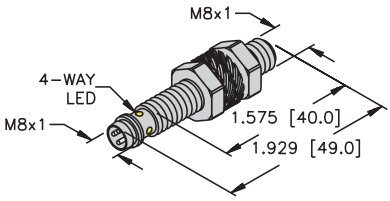
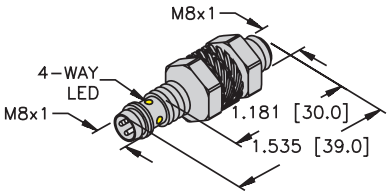
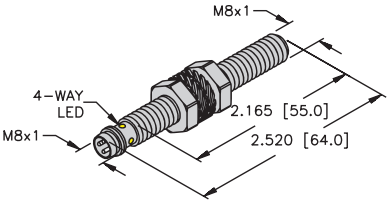
Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
8 mm - Embeddable, Miniature Threaded, *picofast*® Quick Disconnect 	Bi 1.5-EG08K-AN6X-V1131	S4672540	*Short Barrel*	1.5	3-Wire DC NPN
	Bi 2-EG08K-AN6X-V1131	S4669550	*Short Barrel*	2	
	Bi 1.5-EG08K-AP6X-V1131	S4672440	*Short Barrel*	1.5	3-Wire DC PNP
	Bi 2-EG08K-AP6X-V1131	S4669450	*Short Barrel*	2	
	Bi 2-EG08K-AP6X-V1131/S957*	S4669452		2	
	Bi 1.5-EG08K-Y1-V1131	S1003630	*Short Barrel*	1.5	2-Wire DC NAMUR
8 mm - Embeddable, Miniature Threaded, *picofast* Quick Disconnect 	Bi 1.5-EG08-AN6X-V1131	S4602350		1.5	3-Wire DC NPN
	Bi 1.5U-EG08-AN6X-V1131	S4600530	*Uprox*	1.5	
	Bi 2-EG08-AN6X-V1131	S4602150	*Ext. Range*	2	
	Bi 2U-EG08-AN6X-V1131	S4602036	*Uprox*	2	
	Bi 1.5-EG08-AP6X-V1131	S4602220		1.5	3-Wire DC PNP
	Bi 1.5U-EG08-AP6X-V1131	S4600520	*Uprox*	1.5	
	Bi 2-EG08-AP6X-V1131	S4602050	*Ext. Range*	2	
	Bi 2-EG08-AP6X-V1131/S1589	S4602050-1	*weldguard*®	2	
	Bi 2U-EG08-AP6X-V1131	S4602033		2	
	Bi 1.5-EG08-Y1-V1131	S1003530		1.5	2-Wire DC NAMUR
8 mm - Embeddable, Miniature Threaded, *picofast* Quick Disconnect 	Bi 2-G08K-AP6X-V1131	S4672803	*Ext. Range*	2	3-Wire DC PNP
8 mm - Embeddable, Miniature Threaded, *picofast* Quick Disconnect 	Bi 2-G08-AP6X-V1131	S4602002			3-Wire DC PNP

* Full flush mounting in steel without reducing 2 mm sensing range.

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Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	1
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	1
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	2
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	2
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	2
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	N/A	N/A	PKG 3Z-*	3
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	1
	2000	≤150	-30 to +85	IP 68	SS	PA 12	N/A	YE	PKG 3Z-*	1
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	1
	1000	≤150	-30 to +85	IP 68	SS	PA 12	N/A	YE	PKG 3Z-*	1
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	2
	2000	≤150	-30 to +85	IP 68	SS	PA 12	N/A	YE	PKG 3Z-*	2
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	2
	3000	≤150	-25 to +70	IP 67	SS	WG	N/A	YE	PKG 3Z-*	2
	1000	≤150	-30 to +85	IP 68	SS	PA 12	N/A	YE	PKG 3Z-*	2
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	N/A	N/A	PKG 3Z-*	3
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PBT	N/A	YE	PKG 3Z-*	2
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS		N/A	YE	PKG 3Z-*	2

Wiring Diagrams

Diagram 1

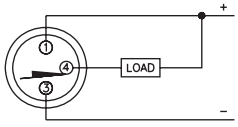


Diagram 2

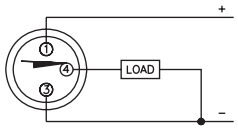
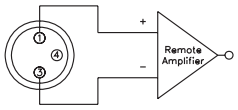
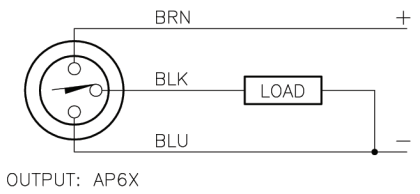


Diagram 3



* Length in meters.

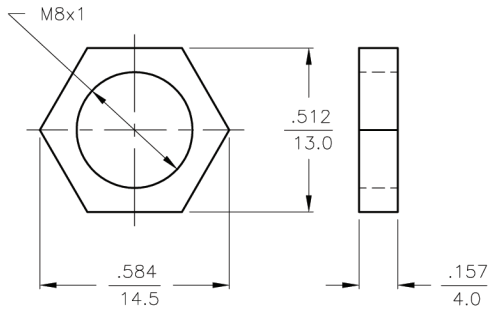
WIRING DIAGRAM



OUTPUT: AP6X

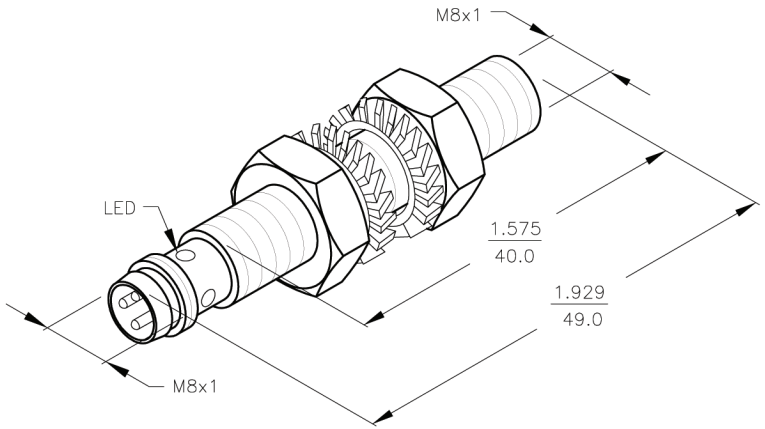
SHORT–CIRCUIT AND OVERLOAD PROTECTED

LOCKNUT LN–SS8



SPECIFICATIONS

OPERATING VOLTAGE	10–30 VDC
RIPPLE	≤10%
DIFFERENTIAL TRAVEL (HYSTERESIS)	1–15% (5% TYPICAL)
VOLTAGE DROP ACROSS CONDUCTING SENSOR	≤1.8 V at 150 mA
OUTPUT FUNCTION	NORMALLY OPEN 3–WIRE DC SELF–CONTAINED
TTL COMPATIBLE	NO
SHORT–CIRCUIT PROTECTED	YES
TRIGGER CURRENT FOR OVERLOAD PROTECTION	≥170 mA
CONTINUOUS LOAD CURRENT	≤150 mA
OFF–STATE (LEAKAGE) CURRENT	<100μ A
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	EN 60947–5–2
OPERATING TEMPERATURE	–25°C to +70°C (–13°F to +158°F)
ENCLOSURE	MEETS NEMA 1, 3, 4, 6, 13 AND IEC IP67
SHOCK	30 g, 11 ms
VIBRATION	55 Hz, 1 mm AMPLITUDE (IN ALL 3 PLANES)
LED FUNCTION	YELLOW: OUTPUT ENERGIZED
RATED OPERATING DISTANCE(Sn)	1.5 mm = .059" (NOMINAL)
SWITCHING FREQUENCY	3000 Hz
REPEATABILITY	≤2% of RATED OPERATING DISTANCE
EMBEDDABLE (SHIELDED)	YES
MATING PLUGS/CABLES	3–PIN "PICOFAST" CONSTRUCTION



NOTES:

1. ONE LED VISIBLE THROUGH FOUR WINDOWS.
2. BARREL IS STAINLESS STEEL; CONNECTOR IS GHROME PLATED BRASS.

REV	DESCRIPTION	BY	DATE	ECO NO.
A	DRAWING RELEASE	RDS	11/04/02	5504

RELATED DOCUMENTS
1.
2.
3.
4.

MATERIAL: SEE NOTE 2

FINISH

3RD ANGLE PROJECTION

TOLERANCES UNLESS OTHERWISE SPECIFIED
.X ±0.02
.XX ±0.01
.XXX ±0.005
ANGLES ±1°
ALL MILLIMETER DIMENSIONS ARE REFERENCE ONLY

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DRFT: IK
DATE: 9/22/97
DSGN:
SCALE: NONE

UNIT OF MEASUREMENT
INCH [MILLIMETER]
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TURCK INC
High Technology Sensors and Automation Controls

DESCRIPTION: Bi 1.5–EG08–AP6X–V1131
IDENTIFICATION NO.: S4602220
REV: A
FILE: S4602220
SHEET 1 OF 1