

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	2-Wire DC NAMUR
	Bi 1.5-EG08K-Y1-V1131	S1003630	Short Barrel	1.5	
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	2-Wire DC NAMUR
	Bi 1.5-EG08-Y1-V1131	S1003530		1.5	
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.



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

Barrels

* Length in meters.

WIRING DIAGRAM

BRN (1) +

BLK (4) LOAD

BLU (3) -

OUTPUT: AP6X

SHORT-CIRCUIT AND OVERLOAD PROTECTED

LOCKNUT LN-SS08

M8x1

.512 13.0

.584 14.5

.157 4.0

SPECIFICATIONS	
RATED OPERATING DISTANCE	2mm = .079" (NOMINAL)
MOUNTING MODE	FLUSH
MIN. REPEAT ACCURACY	≤ 2%
TEMPERATURE DRIFT	≤ ±10%
HYSTERESIS (SWITCHING DISTANCE)	3-15%
OPERATING TEMPERATURE	-30°C to +85°C (-22°F to +185°F)
RATED OPERATIONAL VOLTAGE	10-30 VDC
MAX. RIPPLE	≤ 10%
DC RATED OPERATIONAL CURRENT	≤ 150 mA
NO-LOAD CURRENT	≤ 15 mA
MAX. OFF-STATE CURRENT	≤ 0.1 mA
RATED INSULATION VOLTAGE	≤ 0.5 kV
SHORT-CIRCUIT PROTECTION	INCORPORATED
MAX. VOLTAGE DROP	≤ 1.8 V
WIRE BREAKAGE PROTECTION	INCORPORATED
REVERSE POLARITY PROTECTION	INCORPORATED
OUTPUT FUNCTION	3-WIRE, NORMALLY OPEN, PNP
MAX. SWITCHING FREQUENCY	≤ 1 kHz
HOUSING MATERIAL	METAL, A4 1.4404 (AISI 316L)
ACTIVE FACE	PLASTIC, PA12-GF20
CONNECTOR	M8x1
VIBRATION RESISTANCE	55 Hz, 1 mm AMPLITUDE (IN ALL 3 PLANES)
SHOCK RESISTANCE	30 g, 11 ms
DEGREE OF PROTECTION	IP68
SWITCHING STATUS INDICATION	LED, YELLOW

SOURCE DRAWING - FOR REFERENCE ONLY

RELATED DOCUMENTS

1.
2.
3.
4.

3RD ANGLE PROJECTION

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TURCK INC
High Technology Sensors and Automation Controls

MATERIAL

FINISH

TOLERANCES UNLESS OTHERWISE SPECIFIED

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

DRFT RDS

DSGN TB

UNIT OF MEASUREMENT
INCH | MILLIMETER |
DO NOT SCALE THIS DRAWING

DATE 05/09/06

SCALE 1=1.0

DESCRIPTION
BI 2U-EG08-AP6X-V1131

IDENTIFICATION NO.
S4602033

REV
B

B UPDATE TEMP. SPEC.

RDS 10/29/07 19057

REV DESCRIPTION

BY DATE ECO NO.

FILE: S4602033

SHEET 1 OF 1