

# Inductive Sensors

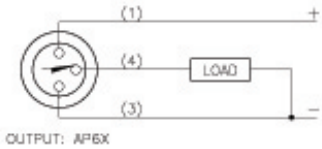


Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output	
<b>4 mm - Embeddable, Miniature Smooth, picofast® Quick Disconnect</b> 	Bi 1-EH04-AN6X-V1331	S4608540		1	3-Wire DC NPN	
	Bi 1-EH04-AP6X-V1331	S4608440		1	3-Wire DC PNP	
	Bi 1-EH04-Y1-V1330	S1003044		1	2-Wire DC NAMUR	
<b>5 mm - Embeddable, Miniature Threaded, picofast Quick Disconnect</b> 	Bi 1-EG05-AN6X-V1331	S4608740		1	3-Wire DC NPN	
	Bi 1-EG05-AP6X-V1331	S4608640		1	3-Wire DC PNP	
	Bi 1-EG05-Y1-V1331	S1003241		1	2-Wire DC NAMUR	
<b>6.5 mm - Embeddable, Miniature Smooth, picofast Quick Disconnect</b> 	Bi 1.5-EH6.5K-AN6X-V1131	S4610840	Short Barrel	1.5	3-Wire DC NPN	
	Bi 2-EH6.5K-AN6X-V1131	S4610120	Short Barrel	2		
	Bi 1.5-EH6.5K-AP6X-V1131	S4610740	Short Barrel	1.5	3-Wire DC PNP	
	Bi 1.5-EH6.5K-AP6X-V1131/S100	S4612003	High Temp. 100°C	1.5		
	Bi 2-EH6.5K-AP6X-V1131	S4610020	Short Barrel	2		
<b>6.5 mm - Embeddable, Miniature Smooth, picofast Quick Disconnect</b> 	Bi 1.5-EH6.5-AN6X-V1131	S4612120		1.5	3-Wire DC NPN	
	Bi 1.5U-EH6.5-AN6X-V1131	S4600687	Uprox	1.5		
	Bi 2-EH6.5-AN6X-V1131	S4612320		2		
	Bi 2U-EH6.5-AN6X-V1131	S4281180	Uprox	2		
	Bi 1.5-EH6.5-AP6X-V1131	S4612020		1.5	3-Wire DC PNP	
	Bi 2-EH6.5-AP6X-V1131	S4612220		2		
	Bi 2U-EH6.5-AP6X-V1131	S4281160	Uprox	2		
	Bi 1.5-EH6.5-AP6X-V1131/S100	S4612002	High Temp. 100°C	1.5		
	Bi 1.5-EH6.5-Y1-V1130	S1004621			1.5	2-Wire DC NAMUR

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	≤100	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	1	<div style="border: 1px solid black; padding: 5px;"> <p><b>Diagram 1</b></p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p><b>Diagram 2</b></p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p><b>Diagram 3</b></p> </div>
10-30 VDC	3000	≤100	-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	≤100	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	1	
10-30 VDC	3000	≤100	-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	
	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 +100	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	
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	
	2000	≤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	
	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 +100	IP 67	SS	EPTR	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	

\* Length in meters.

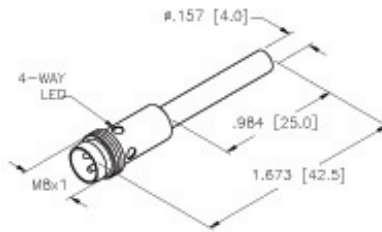
WIRING DIAGRAM



SHORT-CIRCUIT AND OVERLOAD PROTECTED

SPECIFICATIONS

RATED OPERATING DISTANCE	1mm = .039" (NOMINAL)
MOUNTING MODE	FLUSH
MIN. REPEAT ACCURACY	≤ 2%
TEMPERATURE DRIFT	≤ ±10%
HYSTERESIS (SWITCHING DISTANCE)	3-15%
OPERATING TEMPERATURE	-25°C to +70°C (-13°F to +158°F)
RATED OPERATIONAL VOLTAGE	10-30 VDC
MAX. RIPPLE	≤ 10%
DC RATED OPERATIONAL CURRENT	≤ 100 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	≤ 3 kHz
HOUSING MATERIAL	METAL, AA 1.4404 (AISI 316L)
ACTIVE FACE	PLASTIC, PA12-GF20
CONNECTOR	NBx1
VIBRATION RESISTANCE	55 Hz, 1 mm AMPLITUDE (IN ALL 3 PLANES)
SHOCK RESISTANCE	30 g, 11 ms
DEGREE OF PROTECTION	IP67
SWITCHING STATUS INDICATION	LED, YELLOW



SOURCE DRAWING - FOR REFERENCE ONLY

RELATED DOCUMENTS 1. 2. 3. 4.	3RD ANGLE PROJECTION 	THIS DRAWING IS PROPERTY OF TURCK INC. USE OF THIS DOCUMENT WITHOUT WRITTEN PERMISSION IS PROHIBITED.		<b>TURCK INC</b> High Technology Sensors and Automation Controls	
MATERIAL	TOLERANCES UNLESS OTHERWISE SPECIFIED .X ±0.02 .XX ±0.01 .XXX ±0.005 ANGLES ±1°	DRAFT USDAH	RDS -	DATE 04/18/06 SCALE 1=1.0	DESCRIPTION BI 1-EHQ4-AP6X-V1331
FINISH	ALL MILLIMETER DIMENSIONS ARE REFERENCED ONLY	UNIT OF MEASUREMENT <b>INCH [ MILLIMETER ]</b>		IDENTIFICATION NO. S4608440	REV B
B UPDATE BARREL LENGTH	RDS 02/21/06 2D464	DO NOT SCALE THIS DRAWING		FILE: S4608440	SHEET 1 OF 1
REV DESCRIPTION	BY DATE EDO NO.				