

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
3 mm - Embeddable, Miniature Smooth Barrel, Potted-In Cable 	Bi 1-EH03-AN7X*	M1619323	TTL Compatible	1	3-Wire DC NPN
	Bi 1-EH03-AP7X*	M1619322	TTL Compatible	1	3-Wire DC PNP
4 mm - Embeddable, Miniature Smooth Barrel, Potted-In Cable 	Bi 1-EH04-AN6X	S4609640		1	3-Wire DC NPN
	Bi 1-EH04-AP6X	S4609540		1	3-Wire DC PNP
	Bi 1-EH04-Y1	S1003040		1	2-Wire DC NAMUR
5 mm - Embeddable, Miniature Threaded Barrel, Potted-In Cable 	Bi 1-EG05-AN6X	S4609840		1	3-Wire DC NPN
	Bi 1-EG05-AP6X	S4609740		1	3-Wire DC PNP
	Bi 1-EG05-Y1	S1003240		1	2-Wire DC NAMUR

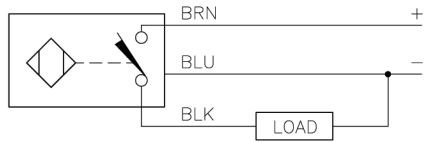
* Flush mountable only in non-ferrous metals.



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
10-30 VDC	5000	≤100	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	<p>Diagram 1</p>
10-30 VDC	5000	≤100	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	<p>Diagram 2</p>
10-30 VDC	3000	≤100	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	<p>Diagram 3</p>
10-30 VDC	3000	≤100	-25 to +70	IP 67	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/PVC	3	
10-30 VDC	3000	≤100	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	
10-30 VDC	3000	≤100	-25 to +70	IP 67	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/PVC	3	



WIRING DIAGRAM

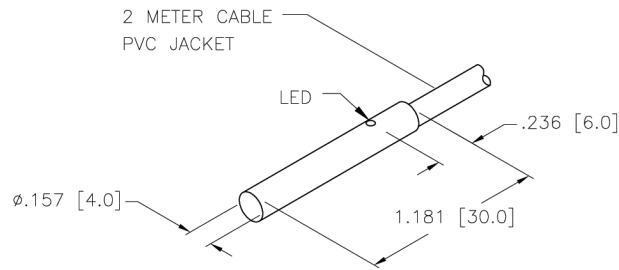


OUTPUT: AP6X

SHORT-CIRCUIT AND OVERLOAD PROTECTED

SPECIFICATIONS

OPERATING VOLTAGE	10-30 VDC
RIPPLE	≤ 10%
DIFFERENTIAL TRAVEL (HYSTERESIS)	1-15% (5% TYPICAL)
VOLTAGE DROP ACROSS CONDUCTING SENSOR	1.8 V @ 100 mA
OUTPUT FUNCTION	NORMALLY OPEN, 3-WIRE, PNP
TTL COMPATIBLE	NO
SHORT-CIRCUIT PROTECTED	YES
CONTINUOUS LOAD CURRENT	≤ 100 mA
LEAKAGE (OFF-STATE) CURRENT	≤ 0.1 mA
TIME DELAY BEFORE AVAILABILITY	≤ 8 ms
NO-LOAD CURRENT	≤ 15 mA
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, 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
SENSING RANGE	1.0 mm = .039" (NOMINAL)
SWITCHING FREQUENCY	3000 Hz
REPEATABILITY	≤ 2% of NOMINAL SENSING RANGE
SHIELDED	YES
HOUSING MATERIAL	304 STAINLESS STEEL
SENSING FACE MATERIAL	PA12-GF20



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1. 2. 3. 4.				DRFT	CBM	DATE	DESCRIPTION
MATERIAL		TOLERANCES UNLESS OTHERWISE SPECIFIED		DSGN	SCALE	1/12/98	Bi1-EH04-AP6X
304 STAINLESS STEEL		.X ±0.02 .XX ±0.01 .XXX ±0.005 ANGLES ±1°		UNIT OF MEASUREMENT		1=1.0	IDENTIFICATION NO.
FINISH		ALL MILLIMETER DIMENSIONS ARE REFERENCE ONLY		INCH [MILLIMETER]			REV
				DO NOT SCALE THIS DRAWING			C
C	ADD LED LOCATION	RDS	01/15/08	19457	FILE: S4609540		SHEET 1 OF 1
REV	DESCRIPTION	BY	DATE	ECO NO.			