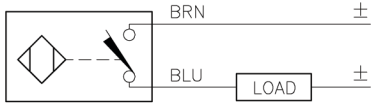
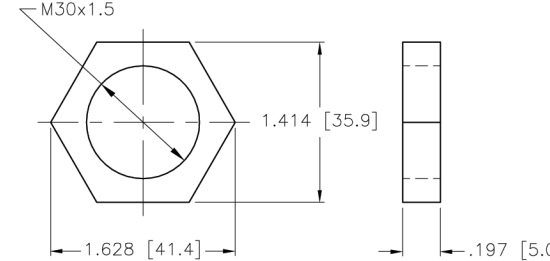


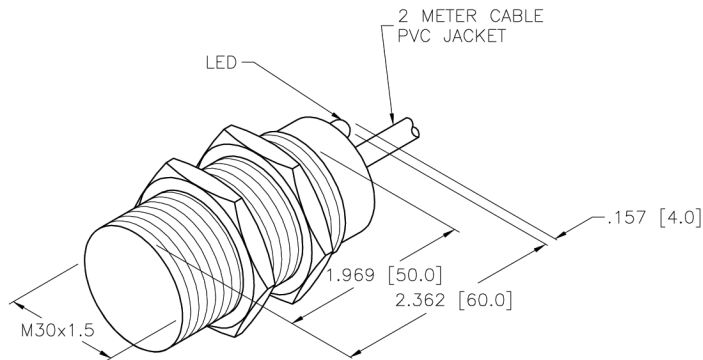
Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, Potted-In Cable 	Bi 10-M30-AD4X	T4417000		10	2-Wire DC
	Bi 12-M30-AD4X	T4417035	<i>Extended Range</i>	12	
	Bi 10-EM30-AN6XLD	T4617109	<i>Load Dump</i>	10	3-Wire DC NPN
	Bi 10U-EM30-AN6X	M1636320	<i>Uprox</i>	10	
	Bi 10U-M30-AN6X	M1636120	<i>Uprox</i>	10	
	Bi 15-M30-AN6X	T4618620	<i>Extended Range</i>	15	
	Bi 10-M30-AN6X	T4617691		10	
	Bi 10-EM30-AP6XLD	T4617003	<i>Load Dump</i>	10	3-Wire DC PNP
	Bi 10-M30-AP6X/S100	M4617004	<i>High Temp. 100°C</i>	10	
	Bi 10U-EM30-AP6X	M1636300	<i>Uprox</i>	10	
	Bi 10U-M30-AP6X	M1636100	<i>Uprox</i>	10	
	Bi 15-M30-AP6X	T4618530	<i>Extended Range</i>	15	
	Bi 10-M30-VN4X	T1571400	<i>Comp. Outputs</i>	10	4-Wire DC NPN
	Bi 15-M30-VN4X	T4570712	<i>Extended Range</i>	15	
	Bi 10-M30-VP4X	T1561400	<i>Comp. Outputs</i>	10	4-Wire DC PNP
Bi 15-M30-VP4X	T4570713	<i>Extended Range</i>	15		
	Bi 10U-MT30-ADZ30X2	M4209430	<i>Uprox</i>	10	2-Wire AC/DC Short-Circuit Protected
30 mm - Embeddable, Potted-In Cable 	Bi 10NF-M30-AN6X	M1616100	<i>Nonferrous</i>	10	3-Wire DC NPN
	Bi 10NF-M30-AP6X	M1606100	<i>Nonferrous</i>	10	3-Wire DC PNP
30 mm - Embeddable, Potted-In Cable 	Bi 12-EM30WD-AN6X	M4614543	<i>Washdown</i>	12	3-Wire DC NPN
	Bi 12-EM30WD-AP6X	M4614540	<i>Washdown</i>	12	3-Wire DC PNP

Voltage	Switching Freq. (Hz)	Operating Current (mA) AC/DC	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length/ Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-65 VDC	500	≤100	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	Diagram 1
	400	≤100	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	
10-30 VDC	500	≤200	-25 to +70	IP 67	SS	PA 12	EPTR	N/A	YE	2M/PVC	2	Diagram 2
	2000	≤200	-30 to +85	IP 68	SS	PA 12	EPTR	N/A	YE	2M/PVC	2	
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
10-30 VDC	500	≤200	-25 to +70	IP 67	SS	PA 12	EPTR	N/A	YE	2M/PVC	3	Diagram 3
	500	≤200	-25 to +100	IP 67	CPB	IRPA	EPTR	N/A	YE	2M/PVC	3	
	2000	≤200	-30 to +85	IP 68	SS	PA 12	EPTR	N/A	YE	2M/PVC	3	
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	
	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	
10-65 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	4	Diagram 4
	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	4	
10-65 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	5	Diagram 5
	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	5	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	TC	TC		GN	RD	2M/PUR	6	Diagram 6
10-30 VDC	500	≤200	0 to +60	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
	10-30 VDC	500	≤200	0 to +60	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3
10-30 VDC		1000	≤200	-25 to +85	IP 68, 69K	SS	PVDF	EPTR	N/A	YE	2M/PUR	2
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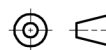

WIRING DIAGRAM	LOCKNUT LN-M30	SPECIFICATIONS																																															
 <p>OUTPUT: AD4X</p> <p>SHORT-CIRCUIT AND OVERLOAD PROTECTED</p>		<table border="1"> <tr><td>OPERATING VOLTAGE</td><td>10-65 VDC</td></tr> <tr><td>RIPPLE</td><td>≤10%</td></tr> <tr><td>DIFFERENTIAL TRAVEL (HYSTERSIS)</td><td>3-15% (5% TYPICAL)</td></tr> <tr><td>VOLTAGE DROP ACROSS CONDUCTING SENSOR</td><td>≤5.0 V at 100 mA</td></tr> <tr><td>OUTPUT FUNCTION</td><td>NORMALLY OPEN 2-WIRE DC SELF-CONTAINED</td></tr> <tr><td>TTL COMPATIBLE</td><td>NO</td></tr> <tr><td>SHORT-CIRCUIT PROTECTED</td><td>YES</td></tr> <tr><td>TRIGGER CURRENT FOR OVERLOAD PROTECTION</td><td>≥120 mA</td></tr> <tr><td>MAXIMUM LOAD CURRENT</td><td>≤100 mA</td></tr> <tr><td>MINIMUM LOAD CURRENT</td><td>≥3.0 mA</td></tr> </table>	OPERATING VOLTAGE	10-65 VDC	RIPPLE	≤10%	DIFFERENTIAL TRAVEL (HYSTERSIS)	3-15% (5% TYPICAL)	VOLTAGE DROP ACROSS CONDUCTING SENSOR	≤5.0 V at 100 mA	OUTPUT FUNCTION	NORMALLY OPEN 2-WIRE DC SELF-CONTAINED	TTL COMPATIBLE	NO	SHORT-CIRCUIT PROTECTED	YES	TRIGGER CURRENT FOR OVERLOAD PROTECTION	≥120 mA	MAXIMUM LOAD CURRENT	≤100 mA	MINIMUM LOAD CURRENT	≥3.0 mA	<table border="1"> <tr><td>OFF-STATE (LEAKAGE) CURRENT</td><td>≤0.8 mA</td></tr> <tr><td>POWER-ON EFFECT PROTECTION</td><td>INCORPORATED</td></tr> <tr><td>TIME DELAY BEFORE AVAILABILITY</td><td>≤10 ms</td></tr> <tr><td>PROTECTION AGAINST TRANSIENTS</td><td>EN 60947-5-2</td></tr> <tr><td>OPERATING TEMPERATURE</td><td>-25°C to +70°C (-13°F to +158°F)</td></tr> <tr><td>ENCLOSURE</td><td>MEETS NEMA 1, 3, 4, 6, 13 AND IEC IP67</td></tr> <tr><td>SHOCK</td><td>30 g, 11 ms</td></tr> <tr><td>VIBRATION</td><td>55 Hz, 1 mm AMPLITUDE (IN ALL 3 PLANES)</td></tr> <tr><td>LED FUNCTION</td><td>YELLOW: OUTPUT ENERGIZED</td></tr> <tr><td>RATED OPERATING DISTANCE(Sn)</td><td>12 mm = .472" (NOMINAL)</td></tr> <tr><td>SWITCHING FREQUENCY</td><td>500 Hz</td></tr> <tr><td>REPEATABILITY</td><td>≤2% OF RATED OPERATING DISTANCE</td></tr> <tr><td>EMBEDDABLE (SHIELDED)</td><td>YES</td></tr> </table>	OFF-STATE (LEAKAGE) CURRENT	≤0.8 mA	POWER-ON EFFECT PROTECTION	INCORPORATED	TIME DELAY BEFORE AVAILABILITY	≤10 ms	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)	12 mm = .472" (NOMINAL)	SWITCHING FREQUENCY	500 Hz	REPEATABILITY	≤2% OF RATED OPERATING DISTANCE	EMBEDDABLE (SHIELDED)	YES
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**NOTE
PRELIMINARY
SPECIFICATIONS**

NOTE:

THIS SENSOR MAY BE USED AS A SINKING OR SOURCING DEVICE.
(SEE WIRING DIAGRAM)

RELATED DOCUMENTS 1. 2. 3. 4.				3RD ANGLE PROJECTION 		THIS DOCUMENT IS PROPERTY OF TURCK INC. USE OF THIS DOCUMENT WITHOUT WRITTEN PERMISSION IS PROHIBITED.  <i>High Technology Sensors and Automation Controls</i>	
MATERIAL BRASS BARREL				TOLERANCES UNLESS OTHERWISE SPECIFIED .X ±0.02 .XX ±0.01 .XXX ±0.005 ANGLES ±1°		DRFT IK DATE 02/07/00 DSGN SCALE 1=2.0 DESCRIPTION Bi12-M30-AD4X	
FINISH COPPER/NICKEL/ CHROME PLATING				ALL MILLIMETER DIMENSIONS ARE REFERENCE ONLY		UNIT OF MEASUREMENT INCH [MILLIMETER] DO NOT SCALE THIS DRAWING IDENTIFICATION NO. T4417035 REV P1 FILE: T4417035 SHEET 1 OF 1	

P1		IK	02/07/00	
REV	DESCRIPTION	BY	DATE	ECO NO.