

Inductive Sensors

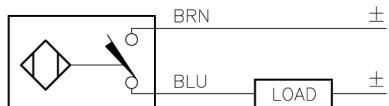


Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, Potted-In Cable 	Bi 10-M30-AD4X	T4417000		10	2-Wire DC
	Bi 12-M30-AD4X	T4417035	<i>Extended Range</i>	12	
	Bi 10-EM30-AN6XLD	T4617109	<i>Load Dump</i>	10	3-Wire DC NPN
	Bi 10U-EM30-AN6X	M1636320	<i>Uprox</i>	10	
	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
	10-30 VDC	1000	≤200	-25 to +85	IP 68, 69K	SS	PVDF	EPTR	N/A	YE	2M/PUR	3

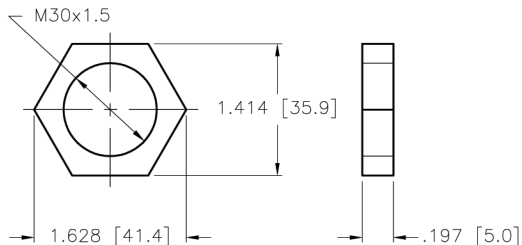
WIRING DIAGRAM

LOCKNUT LN-M30



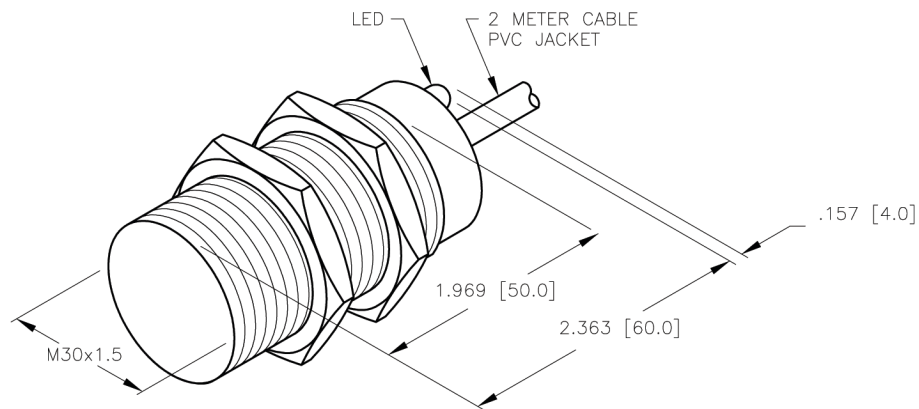
OUTPUT: AD4X

SHORT-CIRCUIT AND OVERLOAD PROTECTED



SPECIFICATIONS

OPERATING VOLTAGE	10-65 VDC
RIPPLE	≤10%
DIFFERENTIAL TRAVEL (HYSTERESIS)	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
OFF-STATE (LEAKAGE) CURRENT	≤0.8 mA
TIME DELAY BEFORE AVAILABILITY	≤10 ms
POWER-ON EFFECT PROTECTION	INCORPORATED
PROTECTION AGAINST TRANSIENTS	INCORPORATED
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	10 mm = .394" (NOMINAL)
SWITCHING FREQUENCY	500 Hz
REPEATABILITY	≤2% of RATED OPERATING DISTANCE
SHIELDED	YES



SOURCE DRAWING - FOR REFERENCE ONLY

NOTE: ALL DIMENSIONAL TOLERANCES: ±1.0mm.

RELATED DOCUMENTS		3RD ANGLE PROJECTION		THIS DRAWING IS PROPERTY OF TURCK INC. USE OF THIS DOCUMENT WITHOUT WRITTEN PERMISSION IS PROHIBITED.		TURCK INC High Technology Sensors and Automation Controls	
1. 2. 3. 4.				DRFT	SMW	DATE	04/29/87
MATERIAL				TOLERANCES UNLESS OTHERWISE SPECIFIED		DSGN	SCALE
BRASS BARREL		±0.0394 in [±1.00 mm]		UNIT OF MEASUREMENT			DESCRIPTION
FINISH		COPPER NICKEL CHROME PLATING		INCH [MILLIMETER]			B110-M30-AD4X
C		CBM	03/03/00	DO NOT SCALE THIS DRAWING			IDENTIFICATION NO.
CHANGE LED COLOR		BY	DATE	FILE: T4417000			REV
DESCRIPTION		ECO NO.		SHEET 1 OF 1			C