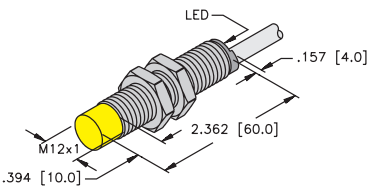
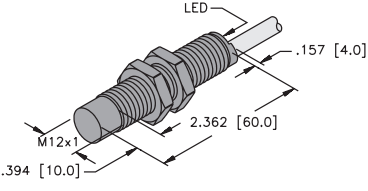
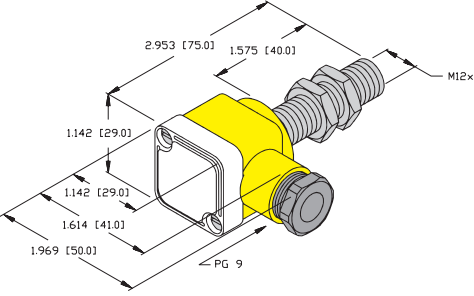
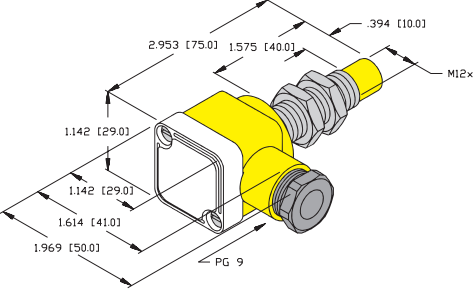
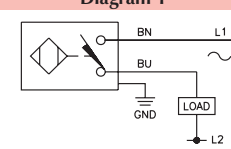
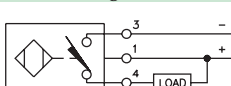
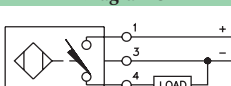


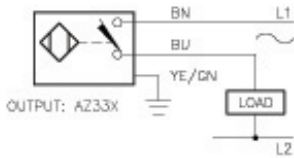
Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Nonembeddable, Potted-In Cable 	Ni 4-G12-AZ33X	T1304202		4	2-Wire AC/DC
	Ni 4-G12-ADZ32X	T4205200		4	
	Ni 8-G12-ADZ32X	T4205400	<i>Extended Range</i>	8	
12 mm - Nonembeddable, Potted-In Cable, Teflon Coated 	Ni 4-GT12-ADZ32X/S34	T4205210	<i>Weld-field Immune</i>	4	2-Wire AC/DC
	Ni 4-GT12-AZ33X/S34	T1304294	<i>Weld-field Immune</i>	4	2-Wire AC/DC
12 mm - Embeddable, Terminal Chamber 	Bi 2-G12SK-AN6X2	T4636500		2	3-Wire DC NPN
	Bi 3U-EG12SK-AN6X	M1634420	<i>Uprox</i>	3	
	Bi 2-G12SK-AP6X2	T4636400		2	3-Wire DC PNP
	Bi 3U-EG12SK-AP6X	M1634400	<i>Uprox</i>	3	
12 mm - Nonembeddable, Terminal Chamber 	Ni 5-G12SK-AN6X2	T4636700		5	3-Wire DC NPN
	Ni 8U-EG12SK-AN6X	M1644420	<i>Uprox</i>	8	
	Ni 5-G12SK-AP6X2	T4636600		5	3-Wire DC PNP
	Ni 8U-EG12SK-AP6X	M1644400	<i>Uprox</i>	8	

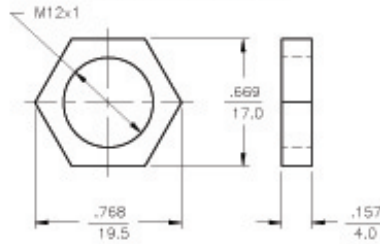
Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length/ Cable /Mat.	Wiring Diagram #	Wiring Diagrams
35-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	<p>Diagram 1</p>  <p>Diagram 2</p>  <p>Diagram 3</p> 
	20	≤100	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	
	20	≤100	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	TC	TC	EPTR	N/A	YE	2M/PVC	1	
	20	≤100	-25 to +70	IP 67	TC	TC	EPTR	N/A	YE	2M/PVC	1	
35-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	TC	TC	EPTR	N/A	YE	2M/PVC	1	
	20	≤100	-25 to +70	IP 67	TC	TC	EPTR	N/A	YE	2M/PVC	1	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	GN	YE	- - - -	2	
	3000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	N/A	YE	- - - -	2	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	GN	YE	- - - -	3	
	3000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	N/A	YE	- - - -	3	
10-30 VDC	1500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	GN	YE	- - - -	2	
	2000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	N/A	YE	- - - -	2	
10-30 VDC	1500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	GN	YE	- - - -	3	
	2000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	N/A	YE	- - - -	3	

WIRING DIAGRAMS



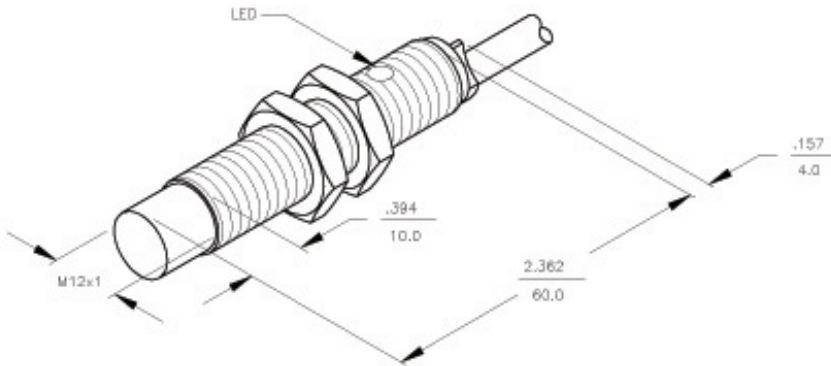
WARNING: NO SHORT-CIRCUIT PROTECTION.
ALWAYS WIRE A LOAD IN SERIES WITH THE SENSOR.

LOCKNUT LN-M12



SPECIFICATIONS

OPERATING VOLTAGE	35-250 VAC/DC
LINE FREQUENCY	40-60 Hz
DIFFERENTIAL TRAVEL (HYSTERESIS)	3-15% (5% TYPICAL)
VOLTAGE DROP ACROSS CONDUCTING SENSOR	≤ 11.0 V at 200 mA
OUTPUT FUNCTION -AZ	NORMALLY OPEN 2-WIRE AC SELF-CONTAINED
SHORT-CIRCUIT PROTECTED	NO
CONTINUOUS LOAD CURRENT	≤ 200 mA
OFF-STATE (LEAKAGE) CURRENT	≤ 1.7 mA
MINIMUM LOAD CURRENT	≥ 5.0 mA
INRUSH CURRENT	≤ 1.0 A (≤ 10 mA/5 Hz)
TIME DELAY BEFORE AVAILABILITY	≤ 8 ms
POWER-ON EFFECT PROTECTION	INCORPORATED
PROTECTION AGAINST TRANSIENTS	5 kV, 10 ms, 10 kΩ
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	RED: OUTPUT ENERGIZED
SENSING RANGE	4 mm = .158" (NOMINAL)
SWITCHING FREQUENCY	20 Hz
REPEATABILITY	≤ 2% of RATED OPERATING DISTANCE
EMBEDDABLE (SHIELDED)	NO



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.	TURCK INC High Technology Sensors and Automation Controls	
MATERIAL BRASS BARREL	TOLERANCES UNLESS OTHERWISE SPECIFIED .X ± 0.02 .XX ± 0.01 .XXX ± 0.005 ANGLES ± 1° ALL MILLIMETER DIMENSIONS ARE REFERENCED ONLY	DRAWN SWC DATE 8/2/94	DESCRIPTION Ni4-G12-AZ33X	REV
FINISH COPPER, NICKEL, CHROME PLATING	UNIT OF MEASUREMENT INCH [MILLIMETER]	SCALE NONE	IDENTIFICATION NO. T1304202	<input type="checkbox"/>
D UPDATE OPERATING VOLTAGE, SEE ECO	RWC 08/08/07 18320	DO NOT SCALE THIS DRAWING	FILE: T1304202	SHEET 1 OF 1
REV DESCRIPTION	BY DATE EDO NO.			