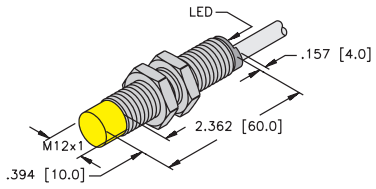
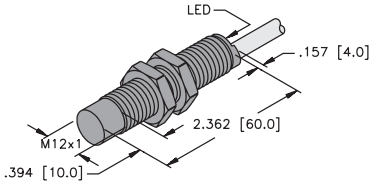
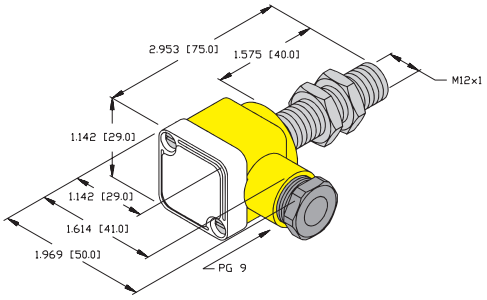
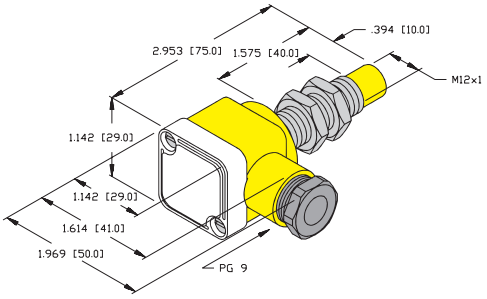
Inductive Sensors

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	***Extended Range***	8	
12 mm - Nonembeddable, Potted-In Cable, Teflon Coated 	Ni 4-GT12-ADZ32X/S34	T4205210	***Weld-field Immune***	4	**2-Wire AC/DC**
	Ni 4-GT12-AZ33X/S34	T1304294	***Weld-field Immune***	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	***Uprox***	3	
	Bi 2-G12SK-AP6X2	T4636400		2	**3-Wire DC PNP**
	Bi 3U-EG12SK-AP6X	M1634400	***Uprox***	3	
12 mm - Nonembeddable, Terminal Chamber 	Ni 5-G12SK-AN6X2	T4636700		5	**3-Wire DC NPN**
	Ni 8U-EG12SK-AN6X	M1644420	***Uprox***	8	
	Ni 5-G12SK-AP6X2	T4636600		5	**3-Wire DC PNP**
	Ni 8U-EG12SK-AP6X	M1644400	***Uprox***	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 #
35-250 VAC 10-300 VDC	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	≤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
35-250 VAC 10-300 VDC	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

Diagram 1

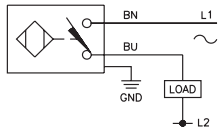


Diagram 2

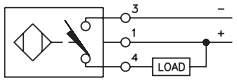
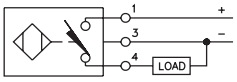
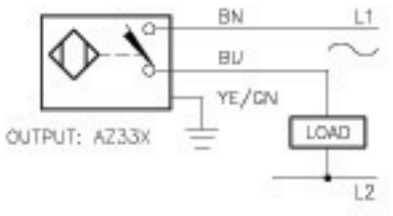


Diagram 3

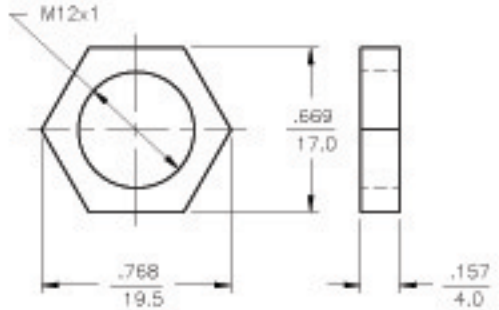


WIRING DIAGRAMS



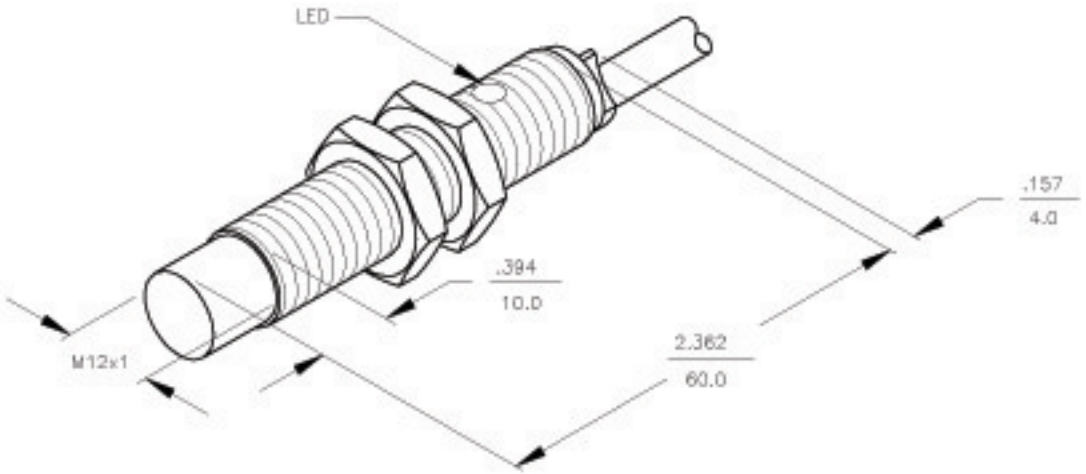
WARNING: NO SHORT-CIRCUIT PROTECTION.
ALWAYS WIRE A LOAD IN SERIES WITH THE SENSOR.

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 ms/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

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TURCK INC
High Technology Sensors and Automation Controls

MATERIAL: BRASS BARREL

FINISH: COPPER, NICKEL, CHROME PLATING

TOLERANCES UNLESS OTHERWISE SPECIFIED
.X ±0.02
.XX ±0.01
.XXX ±0.005
ANGLES ±1°
ALL MILLIMETER DIMENSIONS ARE REFERENCE ONLY

DRFT: SWC
DATE: 8/2/94
DSGN:
SCALE: NONE

UNIT OF MEASUREMENT
INCH [MILLIMETER]
DO NOT SCALE THIS DRAWING

DESCRIPTION: Ni4-G12-AZ33X
IDENTIFICATION NO.: T1304202
REV: D
FILE: T1304202
SHEET 1 OF 1

REV	DESCRIPTION	BY	DATE	ECO NO.
D	UPDATE OPERATING VOLTAGE, SEE ECO	RWC	08/09/07	18320