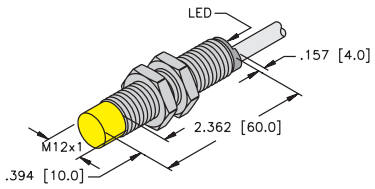
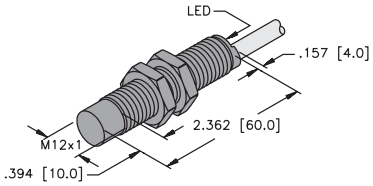
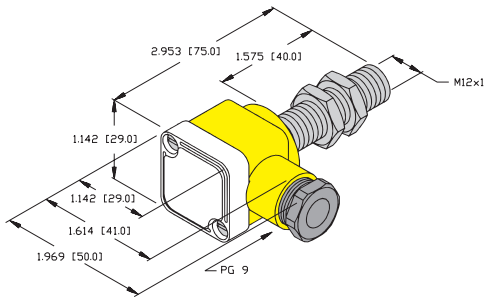
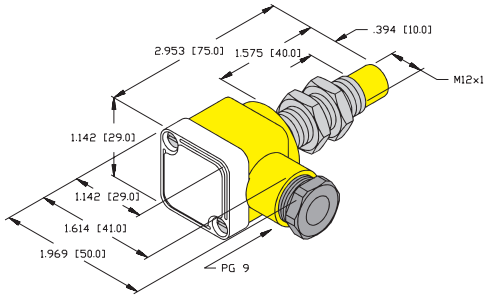
Inductive Sensors

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

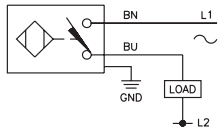


Diagram 2

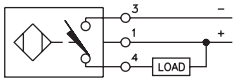
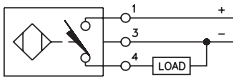
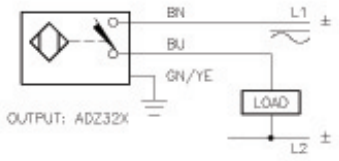


Diagram 3

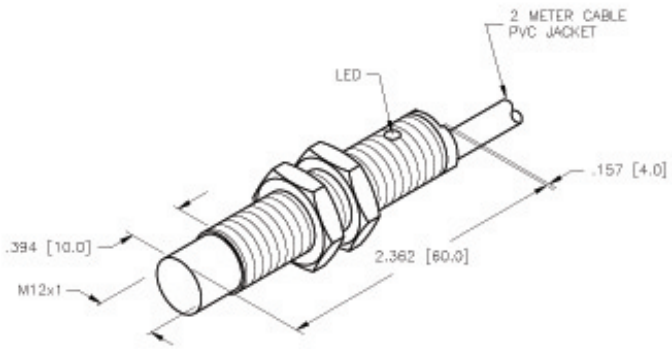


WIRING DIAGRAM



SHORT-CIRCUIT AND OVERLOAD PROTECTED

SPECIFICATIONS	
OPERATING VOLTAGE	20-250 VAC, 10-300 VDC
LINE FREQUENCY	40-60 Hz
DIFFERENTIAL TRAVEL (HYSTERESIS)	3-15% (5% TYPICAL)
VOLTAGE DROP ACROSS CONDUCTING SENSOR	≤6.0 V at 100 mA
OUTPUT FUNCTION	NORMALLY OPEN 2-WIRE AC/DC
SHORT-CIRCUIT PROTECTED	YES
CONTINUOUS LOAD CURRENT	≤100 mA
TRIGGER CURRENT FOR OVERLOAD PROTECTION	≥220 mA
OFF-STATE (LEAKAGE) CURRENT	≤1.7 mA
MINIMUM LOAD CURRENT	≥3.0 mA
INRUSH CURRENT	≤1.0 A (≤30 ms,15% DUTY CYCLE)
TIME DELAY BEFORE AVAILABILITY	≤60 ms
POWER-ON EFFECT	Per IEC 947-5-2
TRANSIENT PROTECTION	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 IP 67
SHOCK	30 g, 11 ms
VIBRATION	55 Hz, 1 mm AMPLITUDE (IN ALL 3 PLANES)
LED FUNCTION	RED: OUTPUT ENERGIZED RED FLASHING: OUTPUT ENERGIZED
RATED OPERATING DISTANCE(Sn)	8 mm = .315" (NOMINAL)
SWITCHING FREQUENCY	60 Hz
REPEATABILITY	≤2% of RATED OPERATING DISTANCE
EMBEDDABLE (SHIELDED)	NO
TEMPERATURE DRIFT	<-15/+10%
LOCKNUT M12x1	17 mm AF, 19.5 mm AC, 4 mm THK



SOURCE DRAWING - FOR REFERENCE ONLY

NOTE:

1. MATERIALS:
   BARREL - CHROME PLATED BRASS
   LOCKNUTS - CHROME PLATED BRASS
   SENSING FACE - PA12-G30 PLASTIC
   END CAP - TPE-O ELASTOMER

2. ALL DIMENSIONAL TOLERANCES ±1.0mm.

REV	DESCRIPTION	BY	DATE	ECO NO.
A	DRAWING RELEASE	CBM	03/29/01	

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: SEE NOTE

FINISH: SEE NOTE

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

DRFT IK | DATE 03/12/01
DSGN | SCALE NONE

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

DESCRIPTION: Ni 8-G12-ADZ32X

IDENTIFICATION NO.: T4205400 | REV: A

FILE: T4205400 | SHEET 1 OF 1