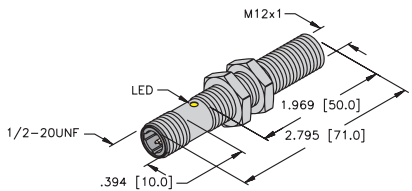
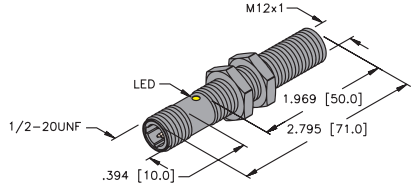
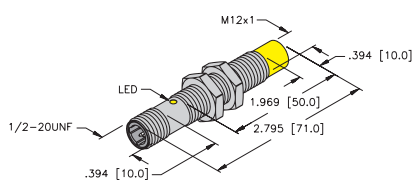
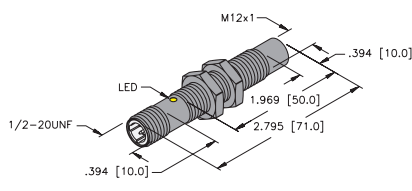
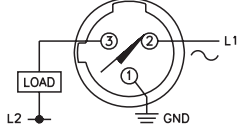


Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output	
12 mm - Embeddable, <i>microfast</i>® Connection 	Bi 2-G12-ADZ32X-B3131	T4205001		2	2-Wire AC/DC Short-circuit Protected	
	Bi 2U-G12-ADZ32X-B3131	M4281005	<i>Uprox</i>	2		
	Bi 4-G12-ADZ32X-B3131	T4205031	<i>Ext. Range</i>	4		
		Bi 2-G12-AZ33X-B3131	T1304032		2	2-Wire AC/DC
12 mm - Embeddable, <i>microfast</i> Connection, Teflon Coated 	Bi 2-GT12H-ADZ32X-B3131/S34	T4205093	<i>WFI</i>	2	2-Wire AC/DC Short-circuit Protected	
	Bi 2-GT12H-ADZ32X-B3131/S34/S1589	T4205096	<i>WFI</i>	2		
	Bi 2-GT12-ADZ32X-B3131/S34	T4205005	<i>WFI</i>	2		
	Bi 2U-GT12-ADZ32X-B3131	M4281015	<i>Uprox</i>	2		
		Bi 4-GT12H-ADZ32X-B3131	T4205097	<i>Stoneface</i>	4	2-Wire AC/DC
		Bi 4-GT12H-ADZ32X-B3131/S1589	T4205087	<i>weldguard</i> ®	4	
12 mm - Nonembeddable, <i>microfast</i> Connection 	Ni 4-G12-ADZ32X-B3131	T4205201		4	2-Wire AC/DC Short-circuit Protected	
	Ni 8-G12-ADZ32X-B3131	M4205401	<i>Ext. Range</i>	8		
	Ni 8U-G12-ADZ32X-B3131	M4281105	<i>Ext. Range, Uprox</i>	8		
		Ni 4-G12-AZ33X-B3131	T1304232		4	2-Wire AC/DC
12 mm - Nonembeddable, <i>microfast</i> Connection, Teflon Coated 	Ni 4-GT12-ADZ32X-B3131/S34	T4205205	<i>WFI</i>	4	2-Wire AC/DC	
	Ni 4-GT12-AZ33X-B3131/S34	T1304292	<i>WFI</i>	4		
	Ni 4-GT12H-ADZ32X-B3131/S34/S1589	T4205293	<i>weldguard</i>	4		
	Ni 8-GT12H-ADZ32X-B3131/S1589	T4205480-1	<i>weldguard</i>	8		
	Ni 8U-GT12-ADZ32X-B3131	M4281115	<i>Uprox</i>	8		

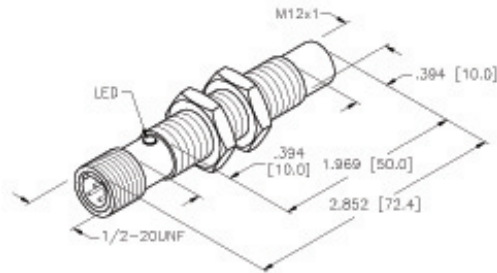
Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	KB 3T-*	1	<p>Diagram 1</p> 
	20	≤100	-30 to +85	IP 67	CPB	PA 12	N/A	YE	KB 3T-*	1	
	20	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	KB 3T-*	1	
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	TC	TC	N/A	YE	KB 3T-*	1	
	20	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	KB 3T-*	1	
	20	≤100	-25 to +70	IP 67	TC	TC	N/A	YE	KB 3T-*	1	
	20	≤100	-30 to +85	IP 67	TC	TC	N/A	YE	KB 3T-*	1	
	20	≤100	-25 to +70	IP 67	TC	TC	N/A	YE	KB 3T-*	1	
	20	≤100	-25 to +70	IP 67	TC	TC	N/A	YE	KB 3T-*	1	
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	TC	TC	N/A	YE	KB 3T-*	1	
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	KB 3T-*	1	
	20	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	KB 3T-*	1	
	20	≤100	-30 to +85	IP 67	CPB	PA 12	N/A	YE	KB 3T-*	1	
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	KB 3T-*	1	
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	TC	PA 12	N/A	YE	KB 3T-*	1	
	20	≤100	-25 to +70	IP 67	TC	PA 12	N/A	YE	KB 3T-*	1	
	20	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	KB 3T-*	1	
	20	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	KB 3T-*	1	
	20	≤100	-30 to +85	IP 67	TC	PA 12	N/A	YE	KB 3T-*	1	

* Length in meters.

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
MATING PLUGS/CABLES	3-PIN "MICROFAST" CONSTRUCTION

NOTE
PRELIMINARY
SPECIFICATIONS

SOURCE DRAWING - FOR REFERENCE ONLY

NOTE:

MATERIALS:

BARREL - CHROME PLATED BRASS
LOCKNUTS - CHROME PLATED BRASS
CONNECTOR - CHROME PLATED BRASS
SENSING FACE - PA12-G30 PLASTIC

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.		TURCK INC High Technology Sensor and Automation Controls	
MATERIAL SEE NOTE	TURCK'S UNLESS OTHERWISE SPECIFIED .X ±0.02 .XX ±0.01 .XXX ±0.005 ANGLES ±1°	DRAWN IK	DATE 03/12/01	DESCRIPTION Ni 8-G12-ADZ32X-B3131	
FINISH SEE NOTE	ALL MILLIMETER DIMENSIONS ARE REFERENCE ONLY	SCALE 1=2.0	UNIT OF MEASUREMENT INCH [MILLIMETER]	IDENTIFICATION NO. T4205401	REV P1
P1	IK 03/12/01	DO NOT SCALE THIS DRAWING		FILE: T4205401	SHEET 1 OF 1
REV	DESCRIPTION	Br	DATE	ECO NO.	