

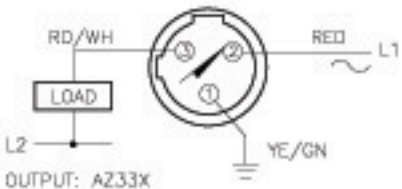
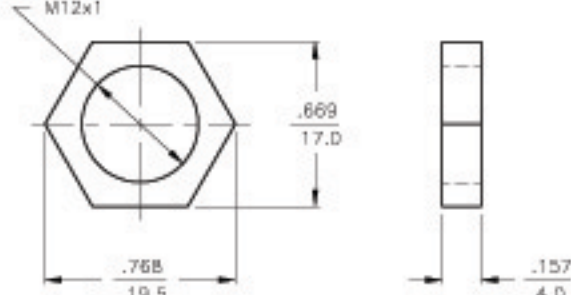
Inductive Sensors



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	
	Bi 4-GT12H-ADZ32X-B3131/S1589	T4205087	<i>weldguard</i> ®	4	
	Bi 2-GT12-AZ33X-B3131/S34	T1304082		2	2-Wire AC/DC
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	Diagram 1
	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	CPB	PA 12	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	WG	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	-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	
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	20	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	KB 3T-*	1	
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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 DIAGRAMS	LOCKNUT LN-M12	SPECIFICATIONS																			
 RD/WH L1 RED YE/GN LOAD OUTPUT: AZ33X WARNING: NO SHORT-CIRCUIT PROTECTION ALWAYS WIRE A LOAD IN SERIES WITH THE SENSOR.	 M12x1 .768 19.5 .669 17.0 .157 4.0	<table><tr><td>OPERATING VOLTAGE</td><td>35-250 VAC/DC</td></tr><tr><td>LINE FREQUENCY</td><td>40-60 Hz</td></tr><tr><td>DIFFERENTIAL TRAVEL (HYSTERSIS)</td><td>3-15% (5% TYPICAL)</td></tr><tr><td>VOLTAGE DROP ACROSS CONDUCTING SENSOR</td><td>≤11.0 V at 100 mA</td></tr><tr><td>OUTPUT FUNCTION -AZ</td><td>NORMALLY OPEN 2-WIRE AC SELF-CONTAINED</td></tr><tr><td>SHORT-CIRCUIT PROTECTED</td><td>NO</td></tr><tr><td>CONTINUOUS LOAD CURRENT</td><td>≤200 mA</td></tr><tr><td>OFF-STATE (LEAKAGE) CURRENT</td><td>≤1.7 mA</td></tr><tr><td>MINIMUM LOAD CURRENT</td><td>≥3.0 mA</td></tr></table>		OPERATING VOLTAGE	35-250 VAC/DC	LINE FREQUENCY	40-60 Hz	DIFFERENTIAL TRAVEL (HYSTERSIS)	3-15% (5% TYPICAL)	VOLTAGE DROP ACROSS CONDUCTING SENSOR	≤11.0 V at 100 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	≥3.0 mA
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M12x1

LED

.394
10.0

1.969
50.0

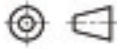
.394
10.0

2.795
71.0

1/2-20UNF

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 k Ω
OPERATING TEMPERATURE	-25°C to +70°C (-13°F to +158°F)
ENCLOSURE	MEETS NEMA 1, 3, 4, 6, 13 AND EC IP67
SHOCK	30 g, 11 ms
VIBRATION	55 Hz, 1 mm AMPLITUDE (IN ALL 3 PLANES)
LED FUNCTION	RED: OUTPUT ENERGIZED
RATED OPERATING DISTANCE(S _n)	4 mm = .157" (NOMINAL)
SWITCHING FREQUENCY	20 Hz
REPEATABILITY	≤2% of RATED OPERATING DISTANCE
EMBEDDABLE (SHIELDED)	NO
MATING PLUGS/CABLES	3-PIN "MICROFAST" CONSTRUCTION

SOURCE DRAWING - FOR REFERENCE ONLY

					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.											
					MATERIAL		TOLERANCES UNLESS OTHERWISE SPECIFIED		DFT SWC				DATE 08/02/94		DESCRIPTION NI 4-G12-AZ33X-B3131	
					SEE SPECIFICATIONS		.X ±0.02 .XX ±0.01 .XXX ±0.005 ANGLES ±1°		DSCR				SCALE 1=2.0			
					FINISH		UNIT OF MEASUREMENT				IDENTIFICATION NO.		REV			
					SEE SPECIFICATIONS		INCH [MILLIMETER]				T1304232		B			
							ALL MILLIMETER DIMENSIONS ARE REFERENCE ONLY									
							DO NOT SCALE THIS DRAWING				FILE: T1304232		SHEET 1 OF 1			
B		UPDATE OPERATING VOLTAGE, SEE ECO			RWC		08/09/07		18320							
REV		DESCRIPTION			BY		DATE		ECO NO.							