

Inductive Sensors

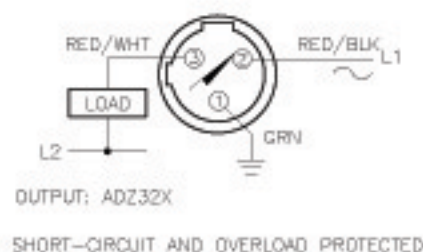


Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, <i>microfast</i>® Connection 	Bi 2-G12-ADZ32X-B3131	T4205001		2	2-Wire AC/DC Short-circuit Protected
	Bi 2U-G12-ADZ32X-B3131	M4281005	<i>Uprox</i>	2	
	Bi 4-G12-ADZ32X-B3131	T4205031	<i>Ext. Range</i>	4	
	Bi 2-G12-AZ33X-B3131	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	

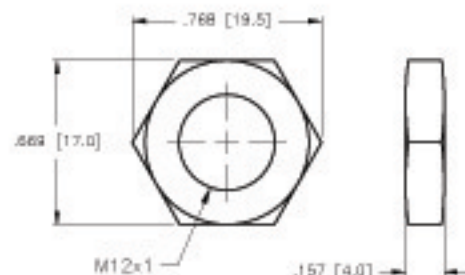
Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	KB 3T-*	1	Diagram 1
	20	≤100	-30 to +85	IP 67	CPB	PA 12	N/A	YE	KB 3T-*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

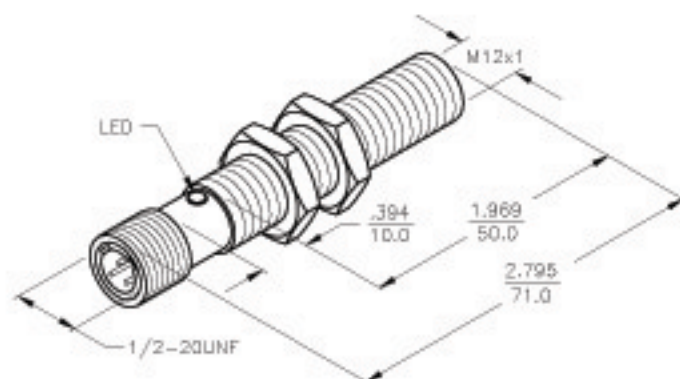


LOCKNUT LN-M12



SPECIFICATIONS

OPERATING VOLTAGE	20-250 VAC/10-300 VDC
LINE FREQUENCY	40-60 Hz
DIFFERENTIAL TRAVEL (HYSTERSIS)	3-15% (5% TYPICAL)
VOLTAGE DROP ACROSS CONDUCTING SENSOR	≤ 6.0 V @ 100 mA
OUTPUT FUNCTION -AZ	NORMALLY OPEN 2-WIRE AC/DC SELF CONTAINED
SHORT-CIRCUIT PROTECTED	YES
CONTINUOUS LOAD CURRENT	≤ 100 mA
OVERLOAD TRIP CURRENT	> 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 PROTECTION	Per IEC 947-5-2
PROTECTION AGAINST TRANSIENTS	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 IP67
SHOCK	30 g, 11 ms
VIBRATION	55 Hz, 1 mm AMPLITUDE (ALL 3 PLANES)
LED FUNCTION	ON: OUTPUT ENERGIZED FLASHING: SHORT-CIRCUIT WARNING
SENSING RANGE	4 mm (.157") NOMINAL
SWITCHING FREQUENCY	60 Hz
REPEATABILITY	≤ 2% OF RATED OPERATING DISTANCE
EMBEDDABLE (SHIELDED)	YES
MATING PLUGS/CABLES	3-PIN MICROFAST™ CONSTRUCTION



NOTES: 1. MATERIALS:

BARREL - CHROME PLATED BRASS
 LOCKNUTS - CHROME PLATED BRASS
 CONNECTOR - CHROME PLATED BRASS
 SENSING FACE - PA12-GF30 PLASTIC

RELATED DOCUMENTS

- 1.
- 2.
- 3.
- 4.

MATERIAL

SEE NOTES

FINISH

SEE NOTES

3RD ANGLE PROJECTION



TOLERANCES UNLESS OTHERWISE SPECIFIED

.X ± 0.02
 .XX ± 0.01
 .XXX ± 0.005
 ANGLES ± 1°

ALL MILLIMETER
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TURCK INC
 High Technology Sensors and Automation Controls

DESCRIPTION

Bi 4-G12-ADZ32X-B3131

IDENTIFICATION NO.

T4205031

REV

A

FILE: T4205031

SHEET 1 OF 1

A	DRAWING RELEASE	BJJ	03/14/03	
REV	DESCRIPTION	BY	DATE	EDD NO.