

Inductive Sensors



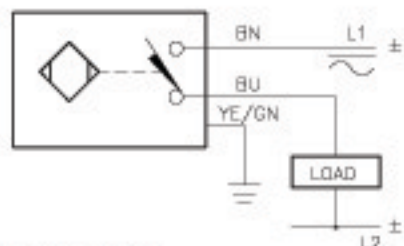
Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, Full Threading, Potted-In Cable 	Bi 5-G18K-AN6X	T4671400	<i>Short Barrel</i>	5	3-Wire DC NPN
	Bi 5-G18K-AN7X	T4740593	<i>TTL Compatible</i>	5	
	Bi 5-G18K-AP6X	T4670400		5	3-Wire DC PNP
	Bi 5-EG18-Y0	T1006001		5	2-Wire NAMUR
	Bi 5-G18-Y0	T1006000		5	
	Bi 5-G18-Y0X	T4015000		5	
18 mm - Embeddable, Full Threading, Potted-In Cable 	Bi 5-EG18-AN6X	T4611101		5	3-Wire DC NPN
	Bi 5-G18-AN6X	T4641500		5	
	Bi 5-G18-AN7X	T4740500	<i>TTL Compatible</i>	5	
	Bi 8-G18-AN6X	T4616101	<i>Ext. Range</i>	8	
	Bi 5-EG18-AP6X	T4611001		5	3-Wire DC PNP
	Bi 5-G18-AP6X	T4641400		5	
	Bi 8-G18-AP6X	T4615088		8	
18 mm - Embeddable, Full Threading, Potted-In Cable 	Bi 5-G18-ADZ30X2	T4212000		5	2-Wire AC/DC Short-Circuit Protected
	Bi 8-G18-ADZ30X2	T4209320	<i>Extended Range</i>	8	
	Bi 5-EG18-AZ3X	T4611190		5	2-Wire AC/DC
	Bi 5-G18-AZ3X	T4330400		5	
	Bi 5-G18-AZ3X2	T1374195		5	

Output	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length/ Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	Diagram 1
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	Diagram 2
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
5-30 VDC	1000	Remote	-25 to +70	IP 67	SS	PA 12	EPTR	N/A	N/A	2M/PVC	3	Diagram 3
	1000	Remote	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	N/A	2M/PVC	3	
	1000	Remote	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	
10-30 VDC	1000	≤200	-25 to +70	IP 67	SS	PA 12	EPTR	N/A	YE	2M/PVC	1	Diagram 4
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	
	1000	≤150	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	
	500	≤200	-25 to +70	IP 67	SS	PA 12	EPTR	N/A	YE	2M/PVC	1	
10-30 VDC	1000	≤200	-25 to +70	IP 67	SS	PA 12	EPTR	N/A	YE	2M/PVC	2	Diagram 4
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
	500	≤200	-25 to +70	IP 67	SS	PA 12	EPTR	N/A	YE	2M/PVC	2	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	EPTR	GN	RD	2M/PVC	4	Diagram 4
	20	≤400/300	-25 to +70	IP 67	SS	PA 12	EPTR	GN	RD	2M/PVC	4	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	SS	PA 12	EPTR	N/A	RD	2M/PVC	4	Diagram 4
	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	RD	2M/PVC	4	
	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	RD	2M/PVC	4	

WIRING DIAGRAM

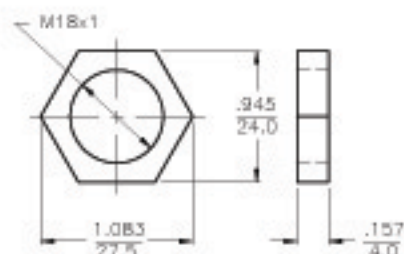
LOCKNUT LN-M18

SPECIFICATIONS

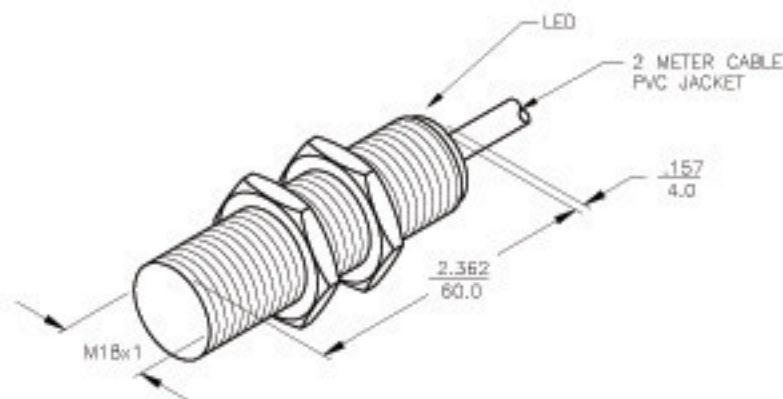


OUTPUT: ADZ30X2

SHORT-CIRCUIT AND OVERLOAD PROTECTED



OPERATING VOLTAGE	20-250 VAC/10-300 VDC
LINE FREQUENCY	40-60 Hz
HYSTERESIS (DIFFERENTIAL TRAVEL)	3-15% (5% TYPICAL)
VOLTAGE DROP ACROSS CONDUCTING SENSOR	≤ 6.0 V at 400 mA
OUTPUT FUNCTION	NORMALLY OPEN 2-WIRE AC/DC SELF-CONTAINED
SHORT-CIRCUIT PROTECTED	YES
TRIGGER CURRENT FOR OVERLOAD PROTECTION	≥ 440 mA (AC), ≥ 330 mA (DC)
CONTINUOUS LOAD CURRENT	≤ 400 mA (AC), ≤ 300 mA (DC)
LEAKAGE (OFF-STATE) CURRENT	≤ 1.7 mA
MINIMUM LOAD CURRENT	≥ 3.0 mA
INRUSH CURRENT	≤ 3.0 A
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 AMPITUDE (IN ALL 3 PLANES)
LED FUNCTION	GREEN = POWER ON FLASHING GREEN: SHORT-CIRCUIT WARNING RED = OUTPUT ENERGIZED
SENSING RANGE	8 mm = .315" (NOMINAL)
SWITCHING FREQUENCY	150 Hz
REPEATABILITY	≤ 2% OF RATED OPERATING DISTANCE
SHIELDED	YES



RELATED DOCUMENTS

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

3RD ANGLE PROJECTION



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High Technology Sensors and Automation Controls

MATERIAL
BRASS BARREL

TOLERANCES UNLESS
OTHERWISE SPECIFIED

DFT CBM

DATE 09/23/99

DESCRIPTION

Bi 8-G18-ADZ30X2

FINISH
COPPER, NICKEL,
CHROME PLATING

0.0394in [1.00mm]

CSCH

SCALE NONE

UNIT OF MEASUREMENT

INCH [MILLIMETER]

IDENTIFICATION NO.

T4209320

REV

C

DO NOT SCALE THIS DRAWING

FILE: T4209320

SHEET 1 OF 1

C	UPDATE SENSING RANGE	RDS	08/19/04	1185B
REV	DESCRIPTION	BY	DATE	EDD NO.