

Inductive Sensors



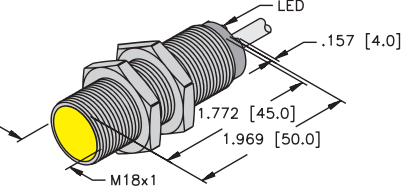
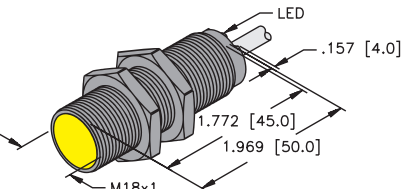
Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, Potted-In Cable, Partial Threading 	Bi 5-M18-AD4X	T4411000		5	2-Wire DC
	Bi 7-M18-AD4X	T4414535	Ext. Range	7	
	Bi 5U-EM18-AN6X	M1635320	Uprox	5	3-Wire DC NPN
	Bi 5U-M18-AN6X	M1635120	Uprox	5	
	Bi 8-M18-AN6X	T4615130	Ext. Range	8	
	Bi 5-M18-AN6X	M4611100		5	
	Bi 5-M18-AP6X/S100	M4611004	High Temp. 100°C	5	3-Wire DC PNP
	Bi 5U-EM18-AP6X	M1635300	Uprox	5	
	Bi 5U-M18-AP6X	M1635100	Uprox	5	
	Bi 8-M18-AP6X	T4615030	Ext. Range	8	
	Bi 5-M18-VN4X	T1571100	Comp. Outputs	5	4-Wire DC NPN
	Bi 8-M18-VN4X	T4590703	Comp. Outputs	8	
	Bi 5-M18-VP4X	T1561100	Comp. Outputs	5	4-Wire DC PNP
	Bi 8-M18-VP4X	T4590704	Comp. Outputs	8	
18 mm - Embeddable, Potted-In Cable, Partial Threading, Teflon Coated 	Bi 5U-MT18-ADZ30X2	M4209410	Uprox	5	2-Wire AC/DC

Diagram 1

BN — +

BU — -

LOAD — -

Diagram 2

BU — -

BN — +

BK — -

LOAD — -

Diagram 3

BU — -

BN — +

BK — -

LOAD — -

Diagram 4

BU — -

BN — +

BK — -

N.O. — +

LOAD — -

WH — -

N.C. — -

LOAD — -

Diagram 5

BN — +

BU — -

BK — -

N.O. — +

LOAD — -

WH — -

N.C. — -

LOAD — -

Diagram 6

1

2

3

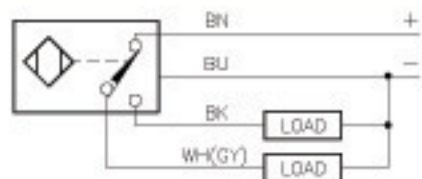
GND

L1

L2

LOAD

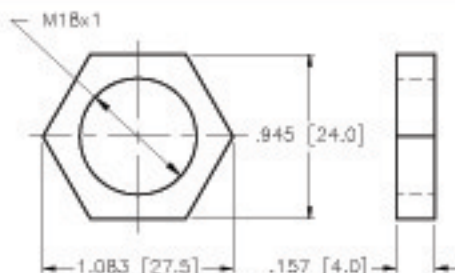
WIRING DIAGRAM



OUTPUT: VP4X

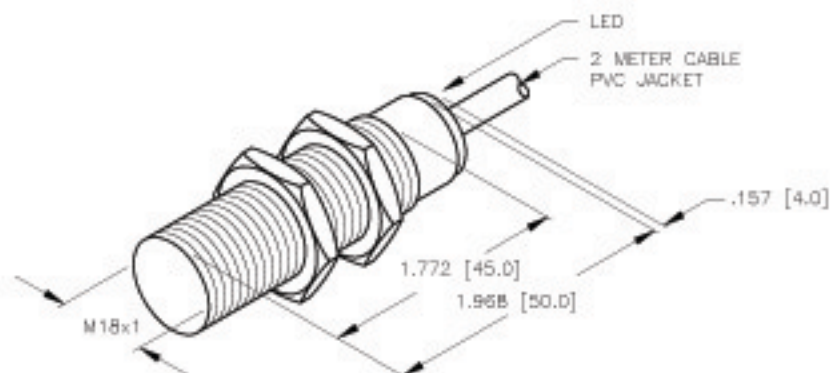
SHORT-CIRCUIT AND OVERLOAD PROTECTED

LOCKNUT LN-M18



SPECIFICATIONS

OPERATING VOLTAGE	10-65 V DC (SHORT-CIRCUIT PROTECTED)
RIPPLE	≤10%
DIFFERENTIAL TRAVEL (HYSTERESIS)	3-15% (5% TYPICAL)
VOLTAGE DROP ACROSS CONDUCTING SENSOR	≤1.8 V at 200 mA
OUTPUT FUNCTION	COMPLEMENTARY OUTPUT ONE N.O., ONE N.C. (SPST)
TTL COMPATIBLE	NO
SHORT-CIRCUIT PROTECTED	YES
TRIGGER CURRENT FOR OVERLOAD PROTECTION	≥220 mA
CONTINUOUS LOAD CURRENT	≤220 mA
LEAKAGE (OFF-STATE) CURRENT	<10 μA
NO-LOAD CURRENT	4.0-9.5 mA
TIME DELAY BEFORE AVAILABILITY	≤8 ms
POWER-ON EFFECT PROTECTION	INCORPORATED
POLARITY INVERSION PROTECTION	INCORPORATED
WIRE-BREAK PROTECTION	INCORPORATED
TRANSIENTS 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 IP67
SHOCK	30 g, 11 ms
VIBRATION	95 Hz, 1 mm AMPLITUDE (IN ALL 3 PLANES)
LED FUNCTION	YELLOW: OUTPUT ENERGIZED
RATED OPERATING DISTANCE(S _n)	5 mm = .197" (NOMINAL)
SWITCHING FREQUENCY	1000 Hz
REPEATABILITY	≤2% of RATED OPERATING DISTANCE
SHIELDED	YES



SOURCE DRAWING - FOR REFERENCE ONLY

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 BRASS BAREL	TOLERANCES UNLESS OTHERWISE SPECIFIED .X ±0.02 .XX ±0.01 .XXX ±0.005 ANGLES ±1° ALL MILLIMETER DIMENSIONS ARE REFERENCE ONLY	DFT USDR	IK	DATE 01/25/99 SCALE 1=2.0	DESCRIPTION BI 5-M18-VP4X
FINISH COPPER/NICKEL/ CHROME PLATING	UNIT OF MEASUREMENT INCH [MILLIMETER]	IDENTIFICATION NO. T1561100		REV C	
DO NOT SCALE THIS DRAWING		FILE: T1561100		SHEET 1 OF 1	

C	NEW LENGTHS ARE 45MM, 50MM	IK	08/29/00	T3745
REV	DESCRIPTION	BY	DATE	EDD NO.