

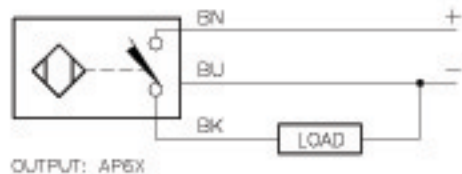
Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Nonembeddable, Partial Threading, Potted-In Cable 	Ni 8-M18-AD4X	T4411200		8	2-Wire DC
	Ni14-M18-AD4X	T4417235	<i>Extended Range</i>	14	
	Ni12U-M18-AN6X	M1645120	<i>Uprox</i>	12	3-Wire DC NPN
	Ni12U-EM18-AN6X	M1645320	<i>Uprox</i>	12	
	Ni14-M18-AN6X	T4611411	<i>Extended Range</i>	14	
	Ni 8-M18-AN6X	T4614889		8	
	Ni 8-M18-AP6X/S100	M4611201	<i>High Temp. 100°C</i>	8	3-Wire DC PNP
	Ni12U-EM18-AP6X	M1645300	<i>Uprox</i>	12	
	Ni12U-M18-AP6X	M1645100	<i>Uprox</i>	12	
	Ni14-M18-AP6X	T4611401	<i>Extended Range</i>	14	
	Ni 8-M18-AP6X	T4614395		8	
	Ni 8-M18-VN4X	T1571200	<i>Comp. Output</i>	8	4-Wire DC NPN
	Ni14-M18-VN4X	T4590600	<i>Extended Range</i>	14	
	Ni 8-M18-VP4X	T1561200	<i>Comp. Output</i>	8	4-Wire DC PNP
Ni14-M18-VP4X	T4590601	<i>Extended Range</i>	14		
	Ni12U-M18-ADZ30X2	M4282410	<i>Uprox</i>	12	2-Wire AC/DC Short-Circuit Protected
18 mm - Nonembeddable, Partial Threading, Potted-In Cable, Teflon Coated 	Ni12U-MT18-ADZ30X2	M4209420	<i>Uprox</i>	12	2-Wire AC/DC Short-Circuit Protected

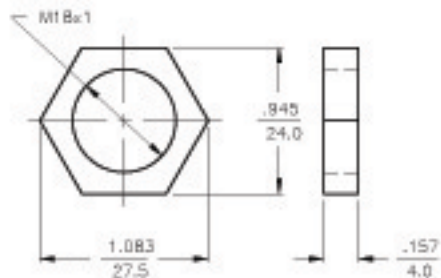
Output	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length/ Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-65 VDC	500	≤100	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	Diagram 1
	500	≤100	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	
10-30 VDC	2000	≤200	-30 to +85	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	Diagram 2
	2000	≤200	-30 to +85	IP 68	SS	PA 12	EPTR	N/A	YE	2M/PVC	2	
	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
10-30 VDC	1000	≤200	-25 to +100	IP 67	CPB	IRPA	EPTR	N/A	YE	2M/PVC	3	Diagram 3
	2000	≤200	-30 to +85	IP 67	SS	PA 12	EPTR	N/A	YE	2M/PVC	3	
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	
	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	
10-65 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	4	Diagram 4
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	4	
10-65 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	5	Diagram 5
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	5	
20-250 VAC 10-300 VDC	20	≤400/300	-30 to +85	IP 67	CPB	PA 12	EPTR	YE	RD	2M/PVC	6	Diagram 6
20-250 VAC 10-300 VDC	20	≤400/300	-30 to +85	IP 67	TC	TC	EPTR	YE	RD	2M/PVC	6	

WIRING DIAGRAM



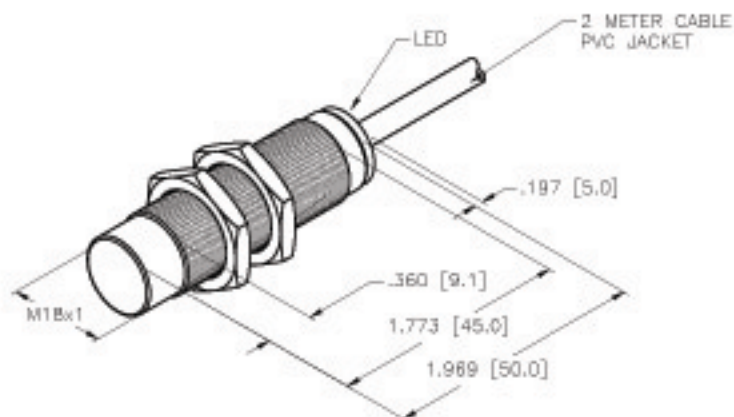
SHORT-CIRCUIT AND OVERLOAD PROTECTED

LOCKNUT LN-M18



SPECIFICATIONS

RATED OPERATING DISTANCE	14 mm = 0.551" (NOMINAL)
MOUNTING MODE	NON-FLUSH
TEMPERATURE DRIFT	≤ ±10%
HYSTERESIS (SWITCHING DISTANCE)	3-15%
MIN. REPEAT ACCURACY	≤ 2%
OPERATING TEMPERATURE	-25°C to +70°C (-13°F to +158°F)
RATED OPERATIONAL VOLTAGE	10-30 VDC
MAX. RIPPLE	≤ ±10%
RATED OPERATIONAL CURRENT	≤ 200 mA
NO-LOAD CURRENT	≤ 15 mA
MAX. OFF-STATE CURRENT	≤ 0.1 mA
RATED INSULATION VOLTAGE	≤ 0.5 kV
SHORT-CIRCUIT PROTECTED	YES
MAX. VOLTAGE DROP	≤ 1.8 V
REVERSE POLARITY PROTECTION	INCORPORATED
WIRE-BREAK PROTECTION	INCORPORATED
OUTPUT FUNCTION	NORMALLY OPEN, 3-WIRE, PNP
MAX. SWITCHING FREQUENCY	≤ 0.5 kHz
CABLE	#5.2, LITZY, PVC, 2 METERS
SHOCK	30 g, 11 ms
VIBRATION	55 Hz, 1 mm AMPLITUDE (IN ALL 3 PLANES)
DEGREE OF PROTECTION	IP67
SWITCHING STATUS INDICATION	LED: YELLOW



SOURCE DRAWING - FOR REFERENCE ONLY

NOTE:

MATERIAL:

BARREL - CHROME PLATED BRASS
 LOCKNUTS - CHROME PLATED BRASS
 SENSING FACE - PA12-GF20 PLASTIC
 END CAP - PA12-GF30 PLASTIC

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.		<p>High Technology Sensors and Automation Controls</p>	
	TOLERANCES UNLESS OTHERWISE SPECIFIED	DWT IK	DATE 03/14/01		
MATERIAL SEE NOTE	±0.0394 in [±1.00 mm]	USDR	SCALE 1 = 1.5	IDENTIFICATION NO. T4611401	
FINISH SEE NOTE		UNIT OF MEASUREMENT INCH [MILLIMETER]		REV A	
A DRAWING RELEASE		RDS	11/14/05	DO NOT SCALE THIS DRAWING	
REV	DESCRIPTION	BY	DATE	EDD NO.	FILE: T4611401
				SHEET 1 OF 1	