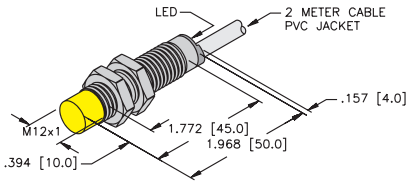
Inductive Sensors

Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Non-Embeddable, Potted-In Cable 	Ni 4-M12-AD4X	T4405200		4	**2-Wire DC**
	Ni 8-M12-AD4X	T4411235	***Extended Range***	8	
	Ni 8-M12-AD4X/S90	T4411235-1	***Extended Range***	8	
	Ni 4-M12-AN6X	T4606380		4	**3-Wire DC NPN**
	Ni 8-M12-AN6X	T4611318	***Extended Range***	8	
	Ni 8U-EM12-AN6X	M1644320	***Ext. Range, Uprox***	8	
	Ni 8U-M12-AN6X	M1644120	***Ext. Range, Uprox***	8	
	Ni 4-M12-AP6X	T4605200		4	**3-Wire DC PNP**
	Ni 4-M12-AP6X/S100	M4605201	***High Temp. 100°C***	4	
	Ni 8-M12-AP6X	T4611319	***Extended Range***	8	
	Ni 8U-EM12-AP6X	M1644300	***Uprox***	8	
	Ni 8U-M12-AP6X	M1644100	***Uprox***	8	
	Ni 4-M12-VN6X	T1640400	***Ext. Range, Comp. Output***	4	**4-Wire DC NPN**
	Ni 8-M12-VN6X	T4611321	***Ext. Range, Comp. Output***	8	
	Ni 4-M12-VP6X	T1630400	***Ext. Range***	4	**4-Wire DC PNP**
	Ni 8-M12-VP6X	T4611322	***Ext. Range, Comp. Output***	8	

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

Wiring Diagrams

Diagram 1

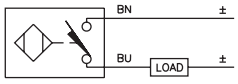


Diagram 2

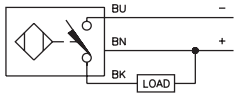


Diagram 3

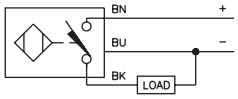


Diagram 4

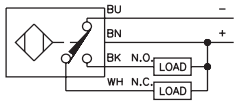
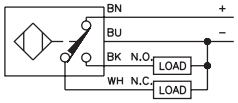
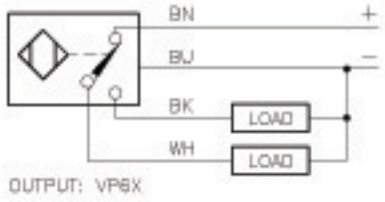


Diagram 5



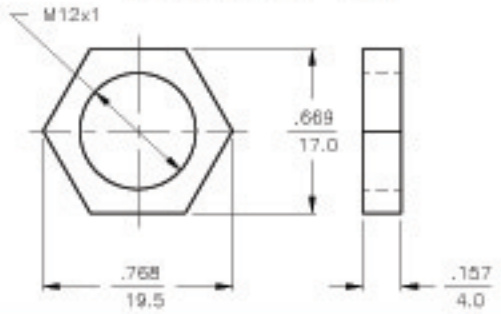
WIRING DIAGRAM



OUTPUT: VP6X

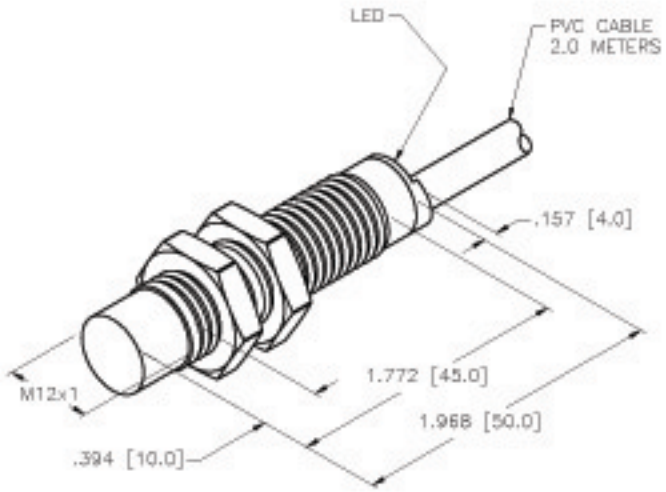
SHORT–CIRCUIT AND OVERLOAD PROTECTED

LOCKNUT LN–M12



SPECIFICATIONS

RATED OPERATING DISTANCE	8 mm [.315"]
MOUNTING MODE	NON–FLUSH
MIN. REPEAT ACCURACY	≤2%
TEMPERATURE DRIFT	≤ ±10%
HYSTERESIS	1–15%
AMBIENT TEMPERATURE	–25°C to +70°C (–13°F to +158°F)
OPERATING CURRENT	10–30 VDC
RESIDUAL RIPPLE	≤ 10%
DC RATED OPERATIONAL CURRENT	≤100 mA
RESIDUAL CURRENT	≤0.6 mA
RATED INSULATION VOLTAGE	≤0.5 kV
SHORT–CIRCUIT PROTECTION	YES
MAX. VOLTAGE DROP	≤5.0 V
OUTPUT FUNCTION	COMPLEMENTARY OUTPUT ONE N.O., ONE N.C. (SPDT)
SMALLEST OPERATING CURRENT	≥3.0 mA
MAX. SWITCHING FREQUENCY	≤2.0 kHz
HOUSING MATERIAL	BRASS, CHROME–PLATED
ACTIVE FACE MATERIAL	PLASTIC, PA12–GF20
END CAP MATERIAL	PLASTIC, EPTR
CABLE	ø5.2, LiYY, PVC
VIBRATION RESISTANCE	55 Hz (IN ALL 3 PLANES)
SHOCK RESISTANCE	30 g, 11 ms
DEGREE OF PROTECTION	IP 67
SWITCHING STATUS INDICATION	LED, YELLOW



CABLE LENGTH	TOLERANCE
ALL LENGTHS	+ 4% (OR 50mm) OF LENGTH – 0% (OR 0mm) OF LENGTH WHICHEVER IS GREATER

STRIP LENGTH	TOLERANCE
0–7mm	±0.5mm
8–29mm	±1.0mm
30–49mm	±2.0mm
50–69mm	±3.0mm
70–100mm	±4.0mm
OVER 100mm	±5.0mm

SOURCE DRAWING – FOR REFERENCE ONLY

REV	DESCRIPTION	BY	DATE	ECO NO.
A	DRAWING RELEASE	RDS	03/22/07	

RELATED DOCUMENTS
1.
2.
3.
4.

3RD ANGLE PROJECTION

TURCK INC
High Technology Sensors and Automation Controls

MATERIAL: SEE SPECIFICATIONS

FINISH: SEE SPECIFICATIONS

TOLERANCES UNLESS OTHERWISE SPECIFIED
.X ±0.02
.XX ±0.01
.XXX ±0.005
ANGLES ±1°
ALL MILLIMETER DIMENSIONS ARE REFERENCE ONLY

DRFT: RDS | DATE: 03/22/07
DSGN: AF | SCALE: 1=1.0

UNIT OF MEASUREMENT
INCH [MILLIMETER]
DO NOT SCALE THIS DRAWING

DESCRIPTION: NI 8–M12–VP6X

IDENTIFICATION NO.: T4611322 | REV: A

FILE: T4611322 | SHEET 1 OF 1