

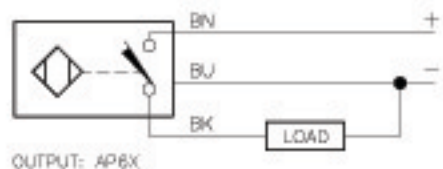
Inductive Sensors



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	

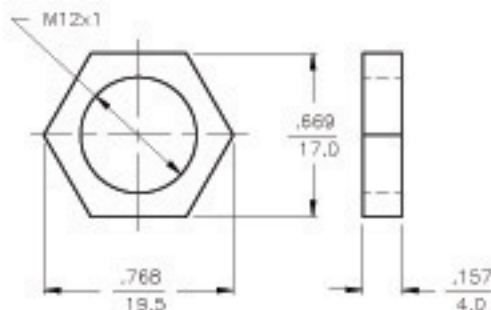
Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length/ Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-65 VDC	1000	≤100	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	Diagram 1
	1000	≤100	-25 to +70	IP 67	CPB	PA 12	EPTR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

WIRING DIAGRAM



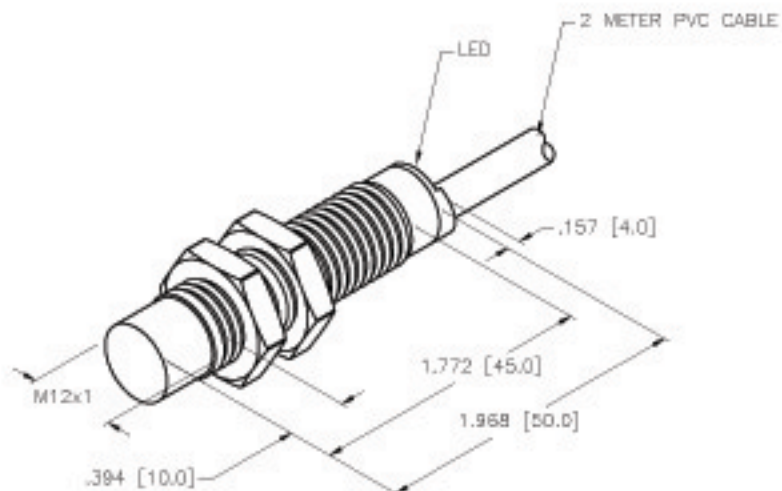
SHORT-CIRCUIT AND OVERLOAD PROTECTED

LOCKNUT LN-M12



SPECIFICATIONS

RATED OPERATING DISTANCE	8mm [.315]
MOUNTING MODE	NON-FLUSH, PARTIALLY FLUSH MOUNTABLE
TEMPERATURE DRIFT	≤±10% ≤±15%, ≤ -25°C v ≥ +70°C
HYSTERESIS	3-15%
MIN. REPEAT ACCURACY	≤2%
OPERATING TEMPERATURE	-30°C to +85°C (-22°F to +185°F)
RATED OPERATIONAL VOLTAGE	10-30 VDC
MAX. RIPPLE	≤10%
DC RATED OPERATIONAL CURRENT	≤200 mA
NO-LOAD CURRENT	≤15 mA
RESIDUAL CURRENT	≤0.1 mA
RATED INSULATION VOLTAGE	≤0.5 kV
SHORT-CIRCUIT PROTECTION	YES
MAX. VOLTAGE DROP	≤1.8 V
WIRE BREAKAGE PROTECTION	INCORPORATED
REVERSE POLARITY PROTECTION	INCORPORATED
OUTPUT FUNCTION	3-WIRE, NORMALLY OPEN, PNP
MAX. SWITCHING FREQUENCY	≤2 kHz
HOUSING MATERIAL	BRASS, CHROME PLATED
ACTIVE FACE MATERIAL	PLASTIC, PBT
END CAP MATERIAL	PLASTIC, EPTR
CABLE	Ø5.2, LIYY, PVC, 2 METER LENGTH
VIBRATION RESISTANCE	55 Hz (IN ALL 3 PLANES)
SHOCK RESISTANCE	30 g, 11 ms
DEGREE OF PROTECTION	IP 67
SWITCHING STATUS INDICATION	LED, YELLOW



RELATED DOCUMENTS

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

3RD ANGLE PROJECTION



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TURCK INC
High Technology Sensors and Automation Controls

MATERIAL

TOLERANCES UNLESS OTHERWISE SPECIFIED

DRFT RDS

DATE 10/27/04

DESCRIPTION

NI 8U-M12-AP6X

FINISH

±0.0394 in
(±1.00 mm)

DRSN RT

SCALE 1=1.0

UNIT OF MEASUREMENT
INCH [MILLIMETER]

IDENTIFICATION NO.

M1644100

REV

A

A	DRAWING RELEASE	RDS	10/27/04	
REV	DESCRIPTION	BY	DATE	EDD NO.

DO NOT SCALE THIS DRAWING

FILE: M1644100

SHEET 1 OF 1