

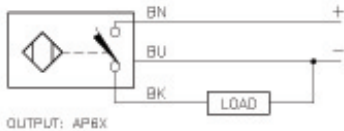
Inductive Sensors



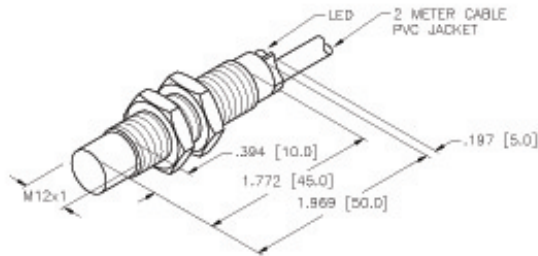
Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Non-Embeddable, Potted-In Cable 	Ni 4-M12-AD4X	T4405200		4	2-Wire DC
	Ni 8-M12-AD4X	T4411235	<i>Extended Range</i>	8	
	Ni 8-M12-AD4X/S90	T4411235-1	<i>Extended Range</i>	8	
	Ni 4-M12-AN6X	T4606380		4	3-Wire DC NPN
	Ni 8-M12-AN6X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



SPECIFICATIONS

OPERATING VOLTAGE	10-30 VDC
HYSTERESIS (DIFFERENTIAL TRAVEL)	3-15% (5% TYPICAL)
VOLTAGE DROP ACROSS CONDUCTING SENSOR	≤1.8 V at 200 mA
OUTPUT FUNCTION	NORMALLY OPEN 3-WIRE DC
TTL COMPATIBLE	NO
SHORT-CIRCUIT PROTECTED	YES
TRIGGER CURRENT FOR OVERLOAD PROTECTION	≥220 mA
CONTINUOUS LOAD CURRENT	≤200 mA
OFF-STATE (LEAKAGE) CURRENT	<100 μA
NO-LOAD CURRENT	≤10 mA
TIME DELAY BEFORE AVAILABILITY	≤8 ms
POWER-ON EFFECT	Per IEC 947-5-2
REVERSE POLARITY PROTECTION	INCORPORATED
WIRE-BREAK PROTECTION	INCORPORATED
TRANSIENT 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	50 Hz, 1 mm AMPLITUDE (IN ALL 3 PLANES)
LED FUNCTION	YELLOW: OUTPUT ENERGIZED
RATED OPERATING DISTANCE(Sn)	8 mm = 0.315" (NOMINAL)
SWITCHING FREQUENCY	2000 Hz
REPEATABILITY	±2% OF RATED OPERATING DISTANCE
TEMPERATURE DRIFT	<-15%/+10%
EMBEDDABLE (SHELDDED)	NO
LOCKNUT M12x1	17 mm AF, 19.5 mm AC, 4.0 mm THK

NOTE
 PRELIMINARY
 SPECIFICATIONS

SOURCE DRAWING - FOR REFERENCE ONLY

NOTE:

MATERIAL:
 BARREL - CHROME PLATED BRASS
 LOCKNUTS - CHROME PLATED BRASS
 SENSING FACE - PA12-GF30 PLASTIC
 END CAP - TPE-O ELASTOMER

RELATED DOCUMENTS 1. 2. 3. 4.	3RD ANGLE PROJECTION 	THIS DRAWING IS PROPERTY OF TURCK INC. USE OF THIS DRAWING WITHOUT WRITTEN PERMISSION IS PROHIBITED.		TURCK INC High Technology Sensor and Automation Controls	
MATERIAL SEE NOTE	TURCK'S UNLESS OTHERWISE SPECIFIED	DRAWN IK	DATE 03/14/01	DESCRIPTION NI 8-M12-AP6X	
FINISH SEE NOTE	±0.0394 in. [±1.00 mm]	OSUN	SCALE 1=1.5	IDENTIFICATION NO. T4611319	REV P1
P1	IK 03/14/01	UNIT OF MEASUREMENT INCH [MILLIMETER]		FILE: T4611319	SHEET 1 OF 1
REV DESCRIPTION	Br DATE ECO NO.	DO NOT SCALE THIS DRAWING			