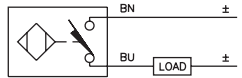
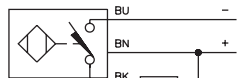
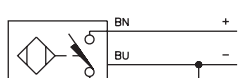
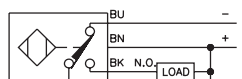
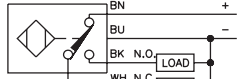


# Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
<b>12 mm - Non-Embeddable, Potted-In Cable</b>  	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	<b>Diagram 1</b> 
	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	<b>Diagram 2</b> 
	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	<b>Diagram 3</b> 
	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	<b>Diagram 4</b> 
	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	<b>Diagram 5</b> 
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	5	

WIRING DIAGRAM

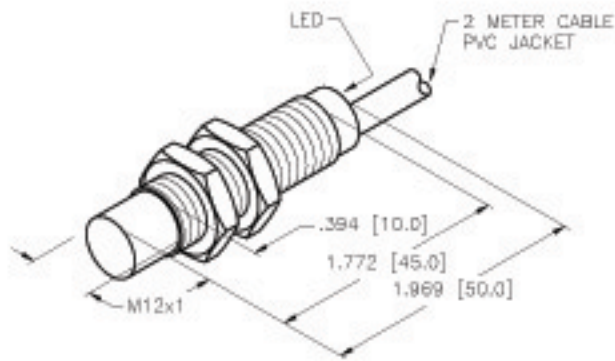


OUTPUT: AD4X

SHORT-CIRCUIT AND OVERLOAD PROTECTED

SPECIFICATIONS

OPERATING VOLTAGE	10-85 VDC
RIPPLE	≤10%
DIFFERENTIAL TRAVEL (HYSTERESIS)	1-15% (5% TYPICAL)
VOLTAGE DROP ACROSS CONDUCTING SENSOR	≤5 V at 100 mA
OUTPUT FUNCTION	NORMALLY OPEN 2-WIRE DC
TTL COMPATIBLE	NO
SHORT-CIRCUIT PROTECTED	YES
TRIGGER CURRENT FOR OVERLOAD PROTECTION	≥120 mA
CONTINUOUS LOAD CURRENT	≤100 mA
OFF-STATE (LEAKAGE) CURRENT	≤0.8 mA
TIME DELAY BEFORE AVAILABILITY	≤3 ms
POWER-ON EFFECT	Per IEC 947-5-2
REVERSE POLARITY PROTECTION	INCORPORATED
PROTECTION AGAINST TRANSIENTS	Per EN 60947-5-2
OPERATING TEMPERATURE (10% DRIFT)	-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	55 Hz, 1 mm AMPITUDE (IN ALL 3 PLANES)
LED FUNCTION	YELLOW: OUTPUT ENERGIZED
RATED OPERATING DISTANCE(Sn)	8mm = .315" (NOMINAL)
SWITCHING FREQUENCY	1000 Hz
REPEATABILITY	±2% of RATED OPERATING DISTANCE
EMBEDDABLE (SHIELDED)	NO
LOCKNUT M12x1	17 mm AF, 19.5 mm AC, 4 mm THK



NOTES:

1. MATERIALS:  
 CHROME PLATED BRASS BARREL  
 CHROME PLATED BRASS LOCKNUTS  
 PA 12-GF30 PLASTIC SENSING FACE  
 TPE-D ELASTOMER END CAP

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.		<b>TURCK INC</b> High Technology Sensors and Automation Controls	
	MATERIAL SEE NOTE 1	TOLERANCES UNLESS OTHERWISE SPECIFIED 0.0394in [1.00mm]	DRFT CBM	DATE 09/26/99	DESCRIPTION Ni 8-M12-AD4X
FINISH SEE NOTE 1		UNIT OF MEASUREMENT <b>INCH [ MILLIMETER ]</b>	SCALE NONE	IDENTIFICATION NO. T4411235	REV C
C REDRAW PART, ADD NOTE 1, UPDATE SPEC, WIR. DIAGRAM	IK	D1/05/01	T4222	FILE: T4411235	SHEET 1 OF 1
REV DESCRIPTION	BY	DATE	EDD NO.	DO NOT SCALE THIS DRAWING	