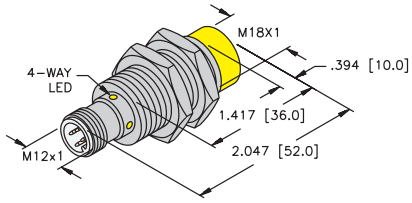
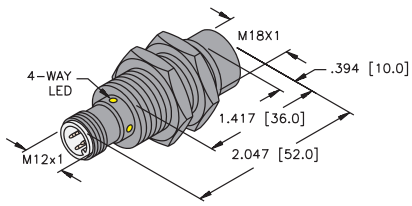
Inductive Sensors

Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Nonembeddable, *eurofast*® Connection 	Ni 8-M18-AD4X-H1141	T4414700		8	**2-Wire DC**
	Ni 8-M18-AD4X-H1144	T4411288		8	
	Ni14-M18-AD4X-H1141	T4417241	*Ext. Range*	14	
	Ni14-M18-AD4X-H1144	T4417290	*Ext. Range*	14	
	Ni 8-M18-AN6X-H1141	T4614800		8	**3-Wire DC NPN**
	Ni10-EM18WD-AN6X-H1141	M4653433	*Washdown*	10	
	Ni10-M18-AN6X-H1141	T4614892		10	
	Ni10-M18WD-AN6X-H1141	M4653440	*Washdown*	10	
	Ni12U-EM18-AN6X-H1141	M1645350	*Uprox*	12	
	Ni12U-EM18-AN6X2-H1141	M1645355	*Uprox*	12	
	Ni15U-EM18WD-AN6X-H1141	M1634835	*Uprox Washdown*	15	
	Ni12U-M18-AN6X-H1141	M1645150	*Uprox*	12	
	Ni12U-M18-AN6X2-H1141	M1645155	*Uprox*	12	
	Ni14-M18-AN6X-H1141	T4611410	*Ext. Range*	14	
	Ni 8-M18-AP6X-H1141	T4614700		8	**3-Wire DC PNP**
	Ni10-EM18WD-AP6X-H1141	M4653419	*Washdown*	10	
	Ni10-M18-AP6X-H1141	T4641291		10	
	Ni12U-EM18-AP6X-H1141	M1645340	*Uprox*	12	
	Ni12U-EM18-AP6X2-H1141	M1645345	*Uprox*	12	
	Ni12U-M18-AP6X-H1141	M1645140	*Uprox*	12	
	Ni12U-M18-AP6X2-H1141	M1645145	*Uprox*	12	
	Ni14-M18-AP6X-H1141	T4611400	*Ext. Range*	14	
	Ni 8-M18-VN4X-H1141	T1571900	*Comp. Outputs*	8	**4-Wire DC NPN**
	Ni14-M18-VN4X-H1141	T4590603	*Ext. Range*	14	
	Ni 8-M18-VP4X-H1141	T1561900	*Comp. Outputs*	8	**4-Wire DC PNP**
	Ni14-M18-VP4X-H1141	T4590602	*Ext. Range*	14	
	Ni10-M18-Y1X-H1141	M4015300		10	**2-Wire NAMUR**
	Ni12U-M18-ASIX-H1140	M1901005	*Uprox*	12	**2-Wire ASI-BUS**
18 mm - Nonembeddable, *eurofast* connection, Teflon Coated 	Ni12U-MT18-AN6X-H1141	M1645250	*Uprox*	12	**3-Wire DC NPN**
	Ni12U-MT18-AP6X-H1141	M1645240	*Uprox*	12	**3-Wire DC PNP**
	Ni12U-MT18-AP6X2-H1141	M1645245	*Uprox*	12	
	Ni12U-MT18H-AP6X-H1141/S1589	M1645292	*weldguard® Uprox*	12	
	Ni12U-MT18H-AP6X2-H1141/S1589	M1645293	*weldguard Uprox*	12	

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #
10-65 VDC	500	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1
	500	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*/S674	2
	500	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1
	500	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*/S674	2
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3
	500	≤200	-25 to +85	IP 68, IP 69K	SS	PVDF	N/A	YE	RK 4T-*	3
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3
	2000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	3
	2000	≤200	-30 to +85	IP 68	SS	PA 12	GN	YE	RKV 4T-*	3
	1000	≤200	-30 to +85	IP 68, IP 69K	SS	PVDF	N/A	YE	RK 4T-*	3
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	GN	YE	RK 4T-*	3
	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4
	500	≤200	-25 to +85	IP 68, 69K	SS	PVDF	N/A	YE	RK 4T-*	4
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4
	2000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	4
	2000	≤200	-30 to +85	IP 68	SS	PA 12	GN	YE	RKV 4T-*	4
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	GN	YE	RK 4T-*	4
	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4
10-65 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5
10-65 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	6
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	6
5-30 VDC	500	Remote	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.21T-*	7
18-33 VDC	200	N/A	-30 to +85	IP 68	CPB	PA 12	N/A	YE	RKC 254-*M	8
10-30 VDC	2000	≤200	-30 to +85	IP 67	TC	TC	N/A	YE	RK 4T-*	3
10-30 VDC	2000	≤200	-30 to +85	IP 67	TC	TC	N/A	YE	RK 4T-*	4
	2000	≤200	-30 to +85	IP 67	TC	TC	GN	YE	RK 4T-*	4
	2000	≤200	-30 to +85	IP 67	TC	WG	N/A	YE	RKG 4T-*/S600	4
	2000	≤200	-30 to +85	IP 67	TC	WG	GN	YE	RKG 4T-*/S600	4

Wiring Diagrams

Diagram 1

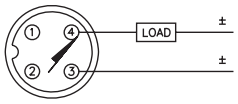


Diagram 2

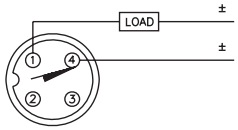


Diagram 3

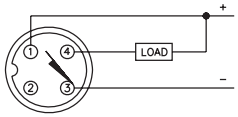


Diagram 4

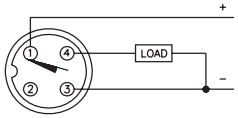


Diagram 5

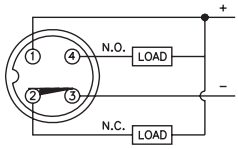


Diagram 6

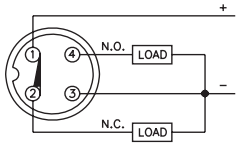


Diagram 7

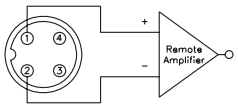
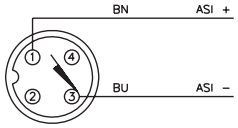
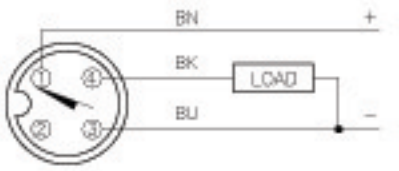


Diagram 8



* Length in meters.

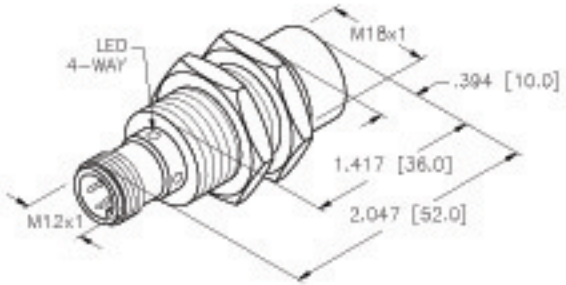
WIRING DIAGRAM



OUTPUT: AP6X

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	55 Hz, 1 mm AMPLITUDE (IN ALL 3 PLANES)
LED FUNCTION	YELLOW: OUTPUT ENERGIZED
RATED OPERATING DISTANCE(Sn)	14 mm = 0.551" (NOMINAL)
SWITCHING FREQUENCY	400 Hz
REPEATABILITY	≤2% of RATED OPERATING DISTANCE
TEMPERATURE DRIFT	<±15%
EMBEDDABLE (SHIELDED)	NO
MATING PLUGS/CABLES	4-PIN "EUROFAST" CONSTRUCTION
LOCKNUT M18x1	24.0 mm AF, 27.5 mm AC, 4.0 mm THK



NOTE
PRELIMINARY SPECIFICATIONS

SOURCE DRAWING - FOR REFERENCE ONLY

NOTE:

MATERIAL:
BARREL – CHROME PLATED BRASS
LOCKNUTS – CHROME PLATED BRASS
CONNECTOR – CHROME PLATED BRASS
SENSING FACE – PA12-GF30 PLASTIC

REV	DESCRIPTION	BY	DATE	ECO NO.
P2		CBM	05/01/01	

RELATED DOCUMENTS
1.
2.
3.
4.

3RD ANGLE PROJECTION

MATERIAL: SEE NOTE

FINISH: SEE NOTE

TOLERANCES UNLESS OTHERWISE SPECIFIED: ±0.0394 in [±1.00 mm]

DRFT: IK
DATE: 03/14/01
DSGN:
SCALE: 1=1.5

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

TURCK INC
High Technology Sensors and Automation Controls

DESCRIPTION: Ni14-M18-AP6X-H1141

IDENTIFICATION NO.: T4611400
REV: P2

FILE: T4611400
SHEET 1 OF 1