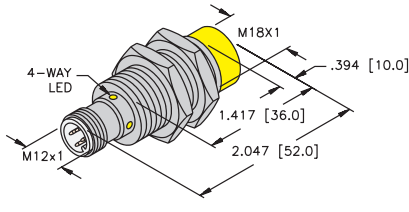
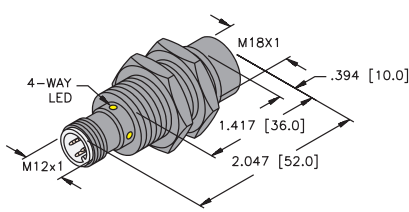


# Inductive Sensors

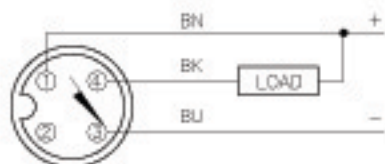


Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
<b>18 mm - Nonembeddable, eurofast® Connection</b> 	Ni 8-M18-AD4X-H1141	T4414700		8	2-Wire DC
	Ni 8-M18-AD4X-H1144	T4411288		8	
	Ni 14-M18-AD4X-H1141	T4417241	Ext. Range	14	
	Ni 14-M18-AD4X-H1144	T4417290	Ext. Range	14	
	Ni 8-M18-AN6X-H1141	T4614800		8	3-Wire DC NPN
	Ni 10-EM18WD-AN6X-H1141	M4653433	Washdown	10	
	Ni 10-M18-AN6X-H1141	T4614892		10	
	Ni 10-M18WD-AN6X-H1141	M4653440	Washdown	10	
	Ni 12U-EM18-AN6X-H1141	M1645350	Uprox	12	
	Ni 12U-EM18-AN6X2-H1141	M1645355	Uprox	12	
	Ni 15U-EM18WD-AN6X-H1141	M1634835	Uprox Washdown	15	
	Ni 12U-M18-AN6X-H1141	M1645150	Uprox	12	
	Ni 12U-M18-AN6X2-H1141	M1645155	Uprox	12	
	Ni 14-M18-AN6X-H1141	T4611410	Ext. Range	14	
	Ni 8-M18-AP6X-H1141	T4614700		8	3-Wire DC PNP
	Ni 10-EM18WD-AP6X-H1141	M4653419	Washdown	10	
	Ni 10-M18-AP6X-H1141	T4641291		10	
	Ni 12U-EM18-AP6X-H1141	M1645340	Uprox	12	
	Ni 12U-EM18-AP6X2-H1141	M1645345	Uprox	12	
	Ni 12U-M18-AP6X-H1141	M1645140	Uprox	12	
Ni 12U-M18-AP6X2-H1141	M1645145	Uprox	12		
Ni 14-M18-AP6X-H1141	T4611400	Ext. Range	14		
Ni 8-M18-VN4X-H1141	T1571900	Comp. Outputs	8	4-Wire DC NPN	
Ni 14-M18-VN4X-H1141	T4590603	Ext. Range	14		
Ni 8-M18-VP4X-H1141	T1561900	Comp. Outputs	8	4-Wire DC PNP	
Ni 14-M18-VP4X-H1141	T4590602	Ext. Range	14		
Ni 10-M18-Y1X-H1141	M4015300		10	2-Wire NAMUR	
Ni 12U-M18-ASIX-H1140	M1901005	Uprox	12	2-Wire ASI-BUS	
<b>18 mm - Nonembeddable, eurofast connection, Teflon Coated</b> 	Ni 12U-MT18-AN6X-H1141	M1645250	Uprox	12	3-Wire DC NPN
	Ni 12U-MT18-AP6X-H1141	M1645240	Uprox	12	3-Wire DC PNP
	Ni 12U-MT18-AP6X2-H1141	M1645245	Uprox	12	
	Ni 12U-MT18H-AP6X-H1141/S1589	M1645292	weldguard® Uprox	12	
	Ni 12U-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 #	Wiring Diagrams
10-65 VDC	500	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1	<p>Diagram 1</p>
	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	<p>Diagram 2</p> <p>Diagram 3</p> <p>Diagram 4</p> <p>Diagram 5</p> <p>Diagram 6</p>
	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	RKY 4T-*	3	
	2000	≤200	-30 to +85	IP 68	SS	PA 12	GN	YE	RKY 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	<p>Diagram 7</p> <p>Diagram 8</p>
	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	RKY 4T-*	4	
	2000	≤200	-30 to +85	IP 68	SS	PA 12	GN	YE	RKY 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	<p>Diagram 9</p>
	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	<p>Diagram 10</p>
	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 4.2IT-*	7	<p>Diagram 11</p>
18-33 VDC	200	N/A	-30 to +85	IP 68	CPB	PA 12	N/A	YE	RKC 254-*/M	8	<p>Diagram 12</p>
10-30 VDC	2000	≤200	-30 to +85	IP 67	TC	TC	N/A	YE	RK 4T-*	3	<p>Diagram 13</p>
10-30 VDC	2000	≤200	-30 to +85	IP 67	TC	TC	N/A	YE	RK 4T-*	4	<p>Diagram 14</p>
	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	

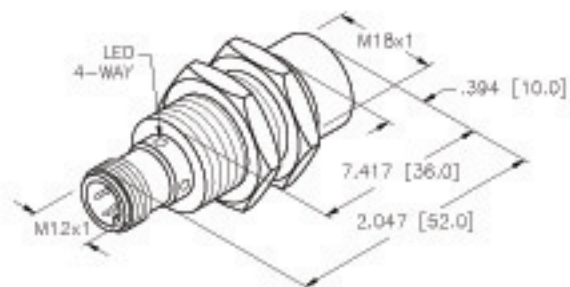
\* Length in meters.

WIRING DIAGRAM



OUTPUT: AN6X

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 OC
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-QF30 PLASTIC

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MATERIAL SEE NOTE	TOLERANCES UNLESS OTHERWISE SPECIFIED $\pm 0.0394$ in [ $\pm 1.00$ mm]	DRY-T IK	DATE 03/14/01	DESCRIPTION NI14-M18-AN6X-H1141	
FINISH SEE NOTE		OSGN	SCALE 1=1.5	IDENTIFICATION NO. T4611410	REV P1
P1	IK	03/14/01	DO NOT SCALE THIS DRAWING		
REV	DESCRIPTION	By	DATE	ECO NO.	FILE: T4611410 SHEET 1 OF 1