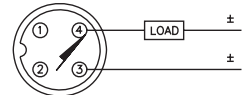
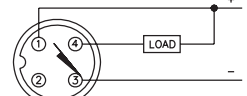
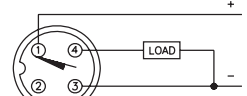
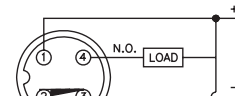
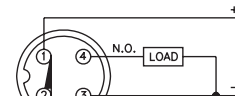
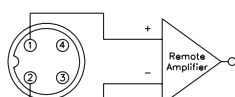
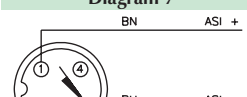
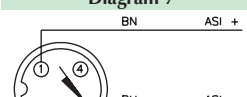


# Inductive Sensors

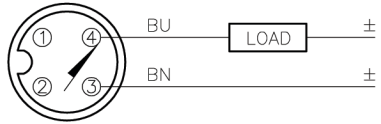


Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
<b>18 mm - Embeddable eurofast® Connection</b> 	Bi 5-M18-AD4X-H1141	T4414500		5	2-Wire DC
	Bi 7-M18-AD4X-H1141	T4414541	<i>Extended Range</i>	7	
	Bi 5-EM18-AN6X-H1141	T4614601		5	3-Wire DC NPN
	Bi 5-M18-AN6X-H1141	T4614600		5	
	Bi 5U-EM18-AN6X-H1141	M1635350	<i>Uprox</i>	5	
	Bi 5U-M18-AN6X-H1141	M1635150	<i>Uprox</i>	5	
	Bi 7-EM18WD-AN6X-H1141	M4614534	<i>Washdown</i>	7	
	Bi 8-M18-AN6X-H1141	T4615100	<i>Extended Range</i>	8	
	Bi 5U-M18-ASIX-H1140	M1901004	<i>Uprox</i>	5	2-Wire ASI-BUS
	Bi 5-EM18-AP6X-H1141	T4614501		5	3-Wire DC PNP
	Bi 5-M18-AP6X-H1141	T4614500		5	
	Bi 5U-EM18-AP6X-H1141	M1635340	<i>Uprox</i>	5	
	Bi 5U-M18-AP6X-H1141	M1635140	<i>Uprox</i>	5	
	Bi 7-EM18WD-AP6X-H1141	M4614531	<i>Washdown</i>	7	
	Bi 7-M18WD-AP6X-H1141	M4614529	<i>Washdown</i>	7	
	Bi 8-M18-AP6X-H1141	T4615000	<i>Ext. Range</i>	8	
	Bi 8-EM18H-AP6X-H1141	T4615094	<i>Ext. Range</i>	8	
	Bi 8-EM18H-AP6X-H1141/S1589	T4615099	<i>weldguard</i>	8	
	Bi 5-EM18-VN4X-H1141	T4614699	<i>Comp. Output</i>	5	4-Wire DC NPN
	Bi 5-M18-VN4X-H1141	T1571800	<i>Comp. Output</i>	5	
	Bi 8-M18-VN4X-H1141	T4590702	<i>Ext. Range</i>	8	4-Wire DC PNP
	Bi 5-M18-VP4X-H1141	T1561800	<i>Comp. Output</i>	5	
	Bi 8-M18-VP4X-H1141	T4590701	<i>Ext. Range</i>	8	4-Wire DC PNP
	Bi 5-M18-Y1X-H1141	M4015200		5	2-Wire NAMUR
<b>18 mm - Embeddable eurofast Connection, Stainless Steel</b> 	Bi 5-EM18FM-AP6X-H1141	M4614539	<i>Stainless Steel Front Cap</i>	5	3-Wire DC PNP

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	1000	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1	<b>Diagram 1</b> 
	1000	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1	
10-30 VDC	1000	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RKV 4T-*	2	<b>Diagram 2</b> 
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	2	
	2500	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	2	
	2500	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RKV 4T-*	2	
	1000	≤200	-25 to +85	IP 68, 69K	SS	PVDF	N/A	YE	RK 4T-*	2	
18-33 VDC	200	N/A	-30 to +85	IP 68	CPB	PA 12	N/A	YE	RKC 254-*M	7	<b>Diagram 3</b> 
	200	N/A	-30 to +85	IP 68	CPB	PA 12	N/A	YE	RKC 254-*M	7	
10-30 VDC	1000	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RKV 4T-*	3	<b>Diagram 4</b> 
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	2500	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	3	
	2500	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	1000	≤200	-25 to +85	IP 68, 69K	SS	PVDF	N/A	YE	RK 4T-*	3	
	1000	≤200	-25 to +85	IP 68, 69K	CPB	PA 12	N/A	YE	RK 4T-*	3	
	500	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	3	
	500	≤200	-25 to +70	IP 67	SS	SF	N/A	YE	RKV 4T-*	3	
10-65 VDC	1000	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RKV 4.4T-*	4	<b>Diagram 5</b> 
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	4	
	500	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4.4T-*	4	
10-65 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	<b>Diagram 6</b> 
	500	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4.4T-*	5	
5-30 VDC	1000	Remote	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.21T-*	6	<b>Diagram 7</b> 
10-30 VDC	180	≤200	-25 to +80	IP 68, 69K	SS	SS	N/A	YE	RKV 4T-*	3	<b>Diagram 7</b> 

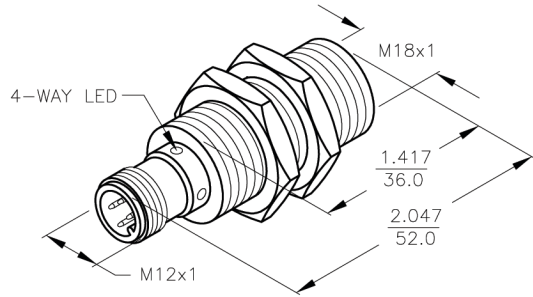
\* Length in meters.

WIRING DIAGRAM



OUTPUT: AD4X

SHORT-CIRCUIT AND OVERLOAD PROTECTED



NOTES:

1. MATERIALS:  
 CHROME PLATED BRASS BARREL  
 CHROME PLATED BRASS LOCKNUTS  
 CHROME PLATED BRASS CONNECTOR  
 PA 12-GF30 PLASTIC SENSING FACE

SPECIFICATIONS

OPERATING VOLTAGE	10-65 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	-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)	7 mm = .276" (NOMINAL)
SWITCHING FREQUENCY	1000 Hz
REPEATABILITY	≤2% of RATED OPERATING DISTANCE
EMBEDDABLE (SHIELDED)	YES
MATING PLUGS/CABLES	4-PIN "EUROFAST" CONSTRUCTION
LOCKNUT M18x1	24 mm AF, 27.5 mm AC, 4 mm THK

RELATED DOCUMENTS		3RD ANGLE PROJECTION		THIS DRAWING IS PROPERTY OF TURCK INC. USE OF THIS DOCUMENT WITHOUT WRITTEN PERMISSION IS PROHIBITED.		 High Technology Sensors and Automation Controls 3000 CAMPUS DRIVE MINNEAPOLIS, MN 55441 1-800-544-7769 (763) 553-7300 (763) 553-0708 fax turck.com	
1. 2. 3. 4.				DRFT	CBM	DATE	09/26/99
MATERIAL		TOLERANCES UNLESS OTHERWISE SPECIFIED		DSGN	SCALE	DESCRIPTION	
SEE NOTE 1		0.0394in [1.00mm]			NONE	Bi 7-M18-AD4X-H1141	
FINISH		SEE NOTE 1		UNIT OF MEASUREMENT		IDENTIFICATION NO.	
				INCH [ MILLIMETER ]		T4414541	
B		UPDATE WIR DIA, SPEC, ADD NOTE, CHANGE DESC TO "Bi..."		IK		01/05/01 T4222	
REV		DESCRIPTION		BY		DATE ECO NO.	
						DO NOT SCALE THIS DRAWING	
						FILE: T4414541	
						SHEET 1 OF 1	