

Inductive Sensors

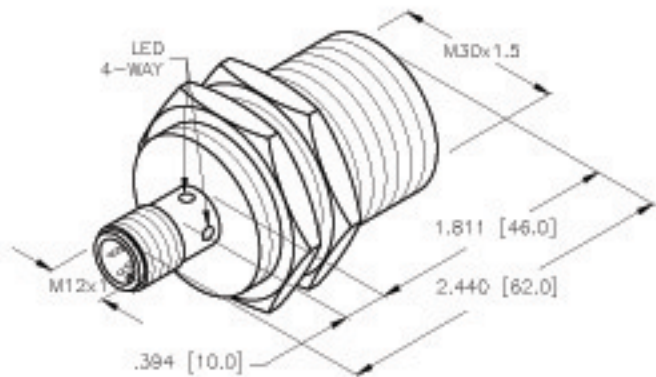


Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, eurofast® Connection 	Bi10-M30-AD4X-H1141	T4417500		10	2-Wire DC
	Bi12-M30-AD4X-H1141	T4417041	Extended Range	12	
	Bi10-M30-AN6X-H1141	T4617600		10	3-Wire DC NPN
	Bi10U-EM30-AN6X-H1141	M1636350	Uprox	10	
	Bi10U-EM30H-AN6X2-H1141	M1636407	Uprox, Stoneface	10	
	Bi10U-EM30H-AN6X2-H1141/S1589	M1636490	weldguard, Uprox	10	
	Bi10U-M30-AN6X-H1141	M1636150	Uprox	10	
	Bi10U-M30-AN6X2-H1141	M1636155	Uprox	10	
	Bi12-EM30WD-AN6X-H1141	M4614544	Washdown	12	
	Bi15-M30-AN6X-H1141	T4618600	Extended Range	15	
	Bi15-EM30H-AN6X-H1141	T4618692	Extended Range	15	
	Bi15-EM30H-AN6X-H1141/S1589	T4618693	weldguard	15	
	Bi10-M30-AP6X-H1141	T4617500		10	3-Wire DC PNP
	Bi10U-EM30-AP6X-H1141	M1636340	Uprox	10	
	Bi10U-EM30H-AP6X2-H1141	M1636406	Uprox, Stoneface	10	
	Bi10U-EM30H-AP6X2-H1141/S1589	M1636491	weldguard, Uprox	10	
	Bi10U-M30-AP6X-H1141	M1636140	Uprox	10	
	Bi10U-M30-AP6X2-H1141	M1636145	Uprox	10	
	Bi12-EM30WD-AP6X-H1141	M4614541	Washdown	12	
	Bi15-M30-AP6X-H1141	T4618500	Extended Range	15	
	Bi15-EM30H-AP6X-H1141	T4618592	Extended Range	15	
	Bi15-EM30H-AP6X-H1141/S1589	T4618593	weldguard	15	
	Bi15-EM30H-AP6X-H1141/S1610	T4618589	Weld/armorguard	15	
	Bi10-M30-VN4X-H1141	T1571600	Comp. Outputs	10	4-Wire DC NPN
	Bi10U-M30-VN4X-H1141	M1582352	Uprox, Comp. Outputs	10	
	Bi15-M30-VN4X-H1141	T4570711	Comp. Outputs	15	4-Wire DC PNP
	Bi10-M30-VP4X-H1141	T1561600	Comp. Outputs	10	
	Bi10U-M30-VP4X-H1141	M1582253	Uprox, Comp. Outputs	10	
	Bi15-M30-VP4X-H1141	T4570710	Comp. Outputs	15	2-Wire DC
	Bi10-M30-Y1X-H1141	M4020200		10	
30 mm - Embeddable, eurofast Connection, Stainless Steel 	Bi 10-EM30F-AP6X-H1141	M4614537	Stainless Steel Front Cap	10	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	500	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1	Diagram 1
	500	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1	
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	2	Diagram 2
	2000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	2	
	2000	≤200	-30 to +85	IP 68	SS	SF	GN	YE	RKV 4T-*	2	
	2000	≤200	-30 to +85	IP 68	SS	WG	GN	YE	RKG 4T-*/S600	2	
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	2	
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	GN	YE	RK 4T-*	2	
	1000	≤200	-25 to +85	IP 68, 69K	SS	PVDF	N/A	YE	RK 4T-*	2	
	300	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	2	
	300	≤200	-25 to +70	IP 67	SS	SF	N/A	YE	RKG 4T-*/S600	2	
	300	≤200	-25 to +70	IP 67	SS	WG	N/A	YE	RKG 4T-*/S600	2	
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	Diagram 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	SF	GN	YE	RKV 4T-*	3	
	2000	≤200	-30 to +85	IP 68	SS	WG	GN	YE	RKG 4T-*/S600	3	
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
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	300	≤200	-25 to +70	IP 67	SS	SF	N/A	YE	RKV 4T-*	3	
	300	≤200	-25 to +70	IP 67	SS	WG	N/A	YE	RKG 4T-*/S600	3	
10-65 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	4	Diagram 4
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	4	
	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	4	
	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	4	
10-65 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	Diagram 5
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	
	300	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	
5-30 VDC	2000	Remote	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.21T-*	6	Diagram 6
10-30 VDC	180	≤200	-25 to +80	IP 68, 69K	SS	SS	N/A	YE	RKV 4T-*	3	

* Length in meters.

WIRING DIAGRAM	LOCKNUT LN-M30	SPECIFICATIONS																																	
OUTPUT: VP4X		<table><tr><td>OPERATING VOLTAGE</td><td>10-65 VDC</td></tr><tr><td>RIPPLE</td><td>≤10%</td></tr><tr><td>HYSTERESIS (DIFFERENTIAL TRAVEL)</td><td>3-15% (5% TYPICAL)</td></tr><tr><td>VOLTAGE DROP ACROSS CONDUCTING SENSOR</td><td>≤1.8 V at 200 mA</td></tr><tr><td>OUTPUT FUNCTION</td><td>COMPLEMENTARY OUTPUT ONE N.O., ONE N.C. (SPDT)</td></tr><tr><td>TTL COMPATIBLE</td><td>NO</td></tr><tr><td>SHORT-CIRCUIT PROTECTED</td><td>YES</td></tr><tr><td>TRIGGER CURRENT FOR OVERLOAD PROTECTION</td><td>≥ 220 mA</td></tr><tr><td>CONTINUOUS LOAD CURRENT</td><td>≤ 200 mA</td></tr></table>	OPERATING VOLTAGE	10-65 VDC	RIPPLE	≤10%	HYSTERESIS (DIFFERENTIAL TRAVEL)	3-15% (5% TYPICAL)	VOLTAGE DROP ACROSS CONDUCTING SENSOR	≤1.8 V at 200 mA	OUTPUT FUNCTION	COMPLEMENTARY OUTPUT ONE N.O., ONE N.C. (SPDT)	TTL COMPATIBLE	NO	SHORT-CIRCUIT PROTECTED	YES	TRIGGER CURRENT FOR OVERLOAD PROTECTION	≥ 220 mA	CONTINUOUS LOAD CURRENT	≤ 200 mA															
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NOTE: ALL TOLERANCES ±1.0 mm.

SOURCE DRAWING - FOR REFERENCE ONLY

NOTE: ALL TOLERANCES ± 1.0 mm.					RELATED DOCUMENTS		3RD ANGLE PROJECTION		THIS DRAWING IS PROPERTY OF TURCK INC. USE OF THIS DOCUMENT WITHOUT WRITTEN PERMISSION IS PROHIBITED.		TURCK INC High Technology Sensors and Automation Controls	
					1. 2. 3. 4.				DATE 01/25/99 SCALE 1 = 1.5		DESCRIPTION Bi10-M30-VP4X-H1141	
					MATERIAL BRASS BARREL							
					TOLERANCES UNLESS OTHERWISE SPECIFIED		.X ± 0.02 .XX ± 0.01 .XXX ± 0.005 ANGLES $\pm 1^\circ$ ALL MILLIMETER DIMENSIONS ARE REFERENCE ONLY		UNIT OF MEASUREMENT INCH [MILLIMETER]		IDENTIFICATION NO. T1561600	
FINISH COPPER/NICKEL/ CHROME PLATING		DO NOT SCALE THIS DRAWING		FILE: T1561600		SHEET 1 OF 1						
B MODIFY DRAWING, NEW FORMAT					IK	03/09/00	T343B					
REV DESCRIPTION					BY	DATE	EDD NO.					

B	MODIFY DRAWING, NEW FORMAT	IK	03/08/00	T343B
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