


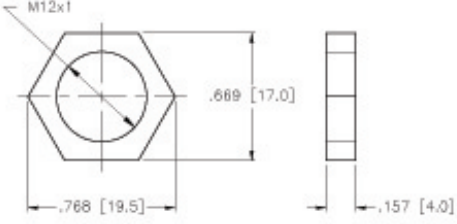
Inductive Sensors

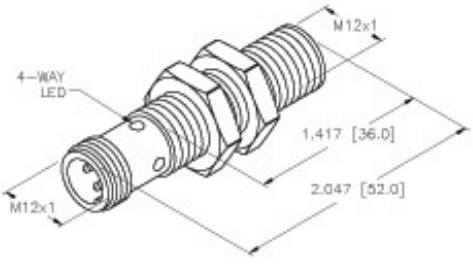



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, eurofast® Connection 	Bi 4-M12K-AN6X-H1141	T4607101	Short Barrel	4	3-Wire DC PNP
	Bi 4-M12K-AP6X-H1141	T4607082	Short Barrel	4	3-Wire DC PNP
	Bi 2-M12K-VP6X-H1141	M1633005	Short Barrel	2	4-Wire DC PNP
12 mm - Embeddable, eurofast Connection 	Bi 2-M12-AD4X-H1141	T4406500		2	2-Wire DC
	Bi 3-M12-AD4X-H1141	T4405041	Ext. Range	3	
	Bi 2-EM12-AN6X-H1141	T4606601		2	3-Wire DC NPN
	Bi 2-M12-AN6X-H1141	T4606600		2	
	Bi 3-EM12WD-AN6X-H1141	M1634334	Washdown	3	
	Bi 3-M12WD-AN6X-H1141	M4607120	Washdown	3	
	Bi 3U-EM12-AN6X-H1141	M1634350	Uprox	3	
	Bi 3U-M12-AN6X-H1141	M1634150	Uprox	3	
	Bi 3U-M12-AN6X2-H1141	M1634155	Uprox	3	
	Bi 4-M12-AN6X-H1141	T4607100	Extended Range	4	
	Bi 2-EM12-AP6X-H1141	T4606501		2	3-Wire DC PNP
	Bi 2-M12-AP6X-H1141	T4606500		2	
	Bi 3-EM12WD-AP6X-H1141	M1634331	Washdown	3	
	Bi 3-M12WD-AP6X-H1141	M4607121	Washdown	3	
	Bi 3U-EM12-AP6X-H1141	M1634340	Uprox	3	
	Bi 3U-EM12H-AP6X-H1141	M1634312	Uprox, Stoneface	3	
	Bi 3U-M12-AP6X-H1141	M1634140	Uprox	3	
	Bi 3U-M12-AP6X2-H1141	M1634145	Uprox	3	
	Bi 4-M12-AP6X-H1141	T4607000	Extended Range	4	
	Bi 2-M12-VN6X-H1141	T1643000	Comp. Outputs	2	4-Wire DC NPN
	Bi 4-M12-VN6X-H1141	T1643200	Ext. Range, Comp. Outputs	4	
	Bi 2-M12-VP6X-H1141	T1633000	Comp. Outputs	2	4-Wire DC PNP
	Bi 4-M12-VP6X-H1141	T1633200	Ext. Range, Comp. Outputs	4	
Bi 4-EM12-VP6X-H1141	T1633201	Ext. Range, Comp. Outputs	4		
Bi 2-EM12-Y0X-H1141	T4010098		2	2-Wire DC NAMUR	
Bi 2-M12-Y1X-H1141	M4010200		2		

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	2	Diagram 1
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	Diagram 2
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	
10-65 VDC	1000	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1	Diagram 3
10-65 VDC	1000	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1	
10-30 VDC	2000	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RKV 4T-*	2	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	2	
	2000	≤200	-25 to +85	IP 68, 69K	SS	PVDF	N/A	YE	RK 4T-*	2	
	3000	≤200	-25 to +85	IP 68, 69K	SS	PVDF	N/A	YE	RK 4T-*	2	
	3000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	2	
	3000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	2	
	3000	≤200	-30 to +85	IP 67	CPB	PA 12	GN	YE	RK 4T-*	2	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	2	
10-30 VDC	2000	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RKV 4T-*	3	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	2000	≤200	-25 to +85	IP 68, 69K	SS	PVDF	N/A	YE	RK 4T-*	3	
	3000	≤200	-25 to +85	IP 68, 69K	SS	PVDF	N/A	YE	RK 4T-*	3	
	3000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	3	
	3000	≤200	-30 to +85	IP 68	SS	SF	N/A	YE	RKG 4T-*/S600	3	
	3000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	3000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3		
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	4	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	4	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	
	2000	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RKV 4.4T-*	5	
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	N/A	YE	RKV 4.21T-*	6	
	5000	Remote	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.21T-*	6	

* Length in meters.

WIRING DIAGRAM	LOCKNUT LN-M12	SPECIFICATIONS																																																			
 <p>OUTPUT: VP6X</p>		<table border="1"> <tr><td>RATED OPERATING DISTANCE</td><td>4 mm [.158]</td></tr> <tr><td>MOUNTING MODE</td><td>FLUSH</td></tr> <tr><td>TEMPERATURE DRIFT</td><td>±10%</td></tr> <tr><td>HYSTERESIS (SWITCHING DISTANCE)</td><td>3-15%</td></tr> <tr><td>MIN. REPEAT ACCURACY</td><td>±2%</td></tr> <tr><td>OPERATING TEMPERATURE</td><td>-25°C to +70°C (-13°F to +158°F)</td></tr> <tr><td>RATED OPERATIONAL VOLTAGE</td><td>10-30 VDC</td></tr> <tr><td>MAX. RIPPLE</td><td>±10%</td></tr> <tr><td>RATED OPERATIONAL CURRENT</td><td>≤200 mA</td></tr> </table>	RATED OPERATING DISTANCE	4 mm [.158]	MOUNTING MODE	FLUSH	TEMPERATURE DRIFT	±10%	HYSTERESIS (SWITCHING DISTANCE)	3-15%	MIN. REPEAT ACCURACY	±2%	OPERATING TEMPERATURE	-25°C to +70°C (-13°F to +158°F)	RATED OPERATIONAL VOLTAGE	10-30 VDC	MAX. RIPPLE	±10%	RATED OPERATIONAL CURRENT	≤200 mA	<table border="1"> <tr><td>NO-LOAD CURRENT</td><td>≤15 mA</td></tr> <tr><td>MAX. OFF-STATE CURRENT</td><td>≤0.1 mA</td></tr> <tr><td>RATED INSULATION VOLTAGE</td><td>≤0.5 kV</td></tr> <tr><td>SHORT-CIRCUIT PROTECTED</td><td>YES</td></tr> <tr><td>MAX. VOLTAGE DROP</td><td>≤1.8 V</td></tr> <tr><td>WIRE-BREAK PROTECTION</td><td>INCORPORATED</td></tr> <tr><td>REVERSE POLARITY PROTECTION</td><td>INCORPORATED</td></tr> <tr><td>OUTPUT FUNCTION</td><td>4-WIRE, COMPLIMENTARY, PNP</td></tr> <tr><td>MAX. SWITCHING FREQUENCY</td><td>≤2 kHz</td></tr> <tr><td>HOUSING MATERIAL</td><td>BRASS, CHROME PLATED</td></tr> <tr><td>ACTIVE FACE</td><td>PLASTIC, PA12-GF30</td></tr> <tr><td>CONNECTOR</td><td>M12x1 EUROFAST</td></tr> <tr><td>VIBRATION RESISTANCE</td><td>55 Hz (IN ALL 3 PLANES)</td></tr> <tr><td>SHOCK RESISTANCE</td><td>30 g, 11 ms</td></tr> <tr><td>DEGREE OF PROTECTION</td><td>IP 67</td></tr> <tr><td>SWITCHING STATUS INDICATION</td><td>LED, YELLOW</td></tr> </table>	NO-LOAD CURRENT	≤15 mA	MAX. OFF-STATE CURRENT	≤0.1 mA	RATED INSULATION VOLTAGE	≤0.5 kV	SHORT-CIRCUIT PROTECTED	YES	MAX. VOLTAGE DROP	≤1.8 V	WIRE-BREAK PROTECTION	INCORPORATED	REVERSE POLARITY PROTECTION	INCORPORATED	OUTPUT FUNCTION	4-WIRE, COMPLIMENTARY, PNP	MAX. SWITCHING FREQUENCY	≤2 kHz	HOUSING MATERIAL	BRASS, CHROME PLATED	ACTIVE FACE	PLASTIC, PA12-GF30	CONNECTOR	M12x1 EUROFAST	VIBRATION RESISTANCE	55 Hz (IN ALL 3 PLANES)	SHOCK RESISTANCE	30 g, 11 ms	DEGREE OF PROTECTION	IP 67	SWITCHING STATUS INDICATION	LED, YELLOW
RATED OPERATING DISTANCE	4 mm [.158]																																																				
MOUNTING MODE	FLUSH																																																				
TEMPERATURE DRIFT	±10%																																																				
HYSTERESIS (SWITCHING DISTANCE)	3-15%																																																				
MIN. REPEAT ACCURACY	±2%																																																				
OPERATING TEMPERATURE	-25°C to +70°C (-13°F to +158°F)																																																				
RATED OPERATIONAL VOLTAGE	10-30 VDC																																																				
MAX. RIPPLE	±10%																																																				
RATED OPERATIONAL CURRENT	≤200 mA																																																				
NO-LOAD CURRENT	≤15 mA																																																				
MAX. OFF-STATE CURRENT	≤0.1 mA																																																				
RATED INSULATION VOLTAGE	≤0.5 kV																																																				
SHORT-CIRCUIT PROTECTED	YES																																																				
MAX. VOLTAGE DROP	≤1.8 V																																																				
WIRE-BREAK PROTECTION	INCORPORATED																																																				
REVERSE POLARITY PROTECTION	INCORPORATED																																																				
OUTPUT FUNCTION	4-WIRE, COMPLIMENTARY, PNP																																																				
MAX. SWITCHING FREQUENCY	≤2 kHz																																																				
HOUSING MATERIAL	BRASS, CHROME PLATED																																																				
ACTIVE FACE	PLASTIC, PA12-GF30																																																				
CONNECTOR	M12x1 EUROFAST																																																				
VIBRATION RESISTANCE	55 Hz (IN ALL 3 PLANES)																																																				
SHOCK RESISTANCE	30 g, 11 ms																																																				
DEGREE OF PROTECTION	IP 67																																																				
SWITCHING STATUS INDICATION	LED, YELLOW																																																				



<p>RELATED DOCUMENTS</p> <ol style="list-style-type: none"> 1. 2. 3. 4. 	<p>3RD ANGLE PROJECTION</p> 	<p>THIS DRAWING IS PROPERTY OF TURCK INC. USE OF THIS DOCUMENT WITHOUT WRITTEN PERMISSION IS PROHIBITED.</p>	<p>TURCK INC High Technology Sensors and Automation Controls</p>		
<p>MATERIAL</p>	<p>TOLERANCES UNLESS OTHERWISE SPECIFIED</p>	<p>DRAWN: RDS</p>	<p>DATE: 09/21/04</p>	<p>DESCRIPTION: BI 4-M12-VP6X-H1141</p>	
<p>FINISH</p>	<p>±0.0394 in [±1.00 mm]</p>	<p>UNIT OF MEASUREMENT: INCH [MILLIMETER]</p>		<p>IDENTIFICATION NO.: T1633200</p>	<p>REV: A</p>
<p>A DRAWING RELEASE</p>	<p>RDS 09/22/04</p>	<p>DO NOT SCALE THIS DRAWING</p>		<p>FILE: T1633200</p>	<p>SHEET 1 OF 1</p>