

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, <i>picofast</i>® Connection 	Bi 4U-M12-AP6X-V1131	M1634780	<i>Uprox+</i>	4	3-Wire DC PNP
12 mm - Embeddable, <i>eurofast</i>® Connection 	Bi 4U-EM12-AN6X-H1141	M1634827	<i>Uprox+</i> , Stainless Steel	4	3-Wire DC NPN
	Bi 4U-EM12WD-AN6X-H1141	M1634841	<i>Uprox+</i> , Washdown	4	
	Bi 4U-M12-AN6X-H1141	M1634824	<i>Uprox+</i>	4	
	Bi 4U-MT12-AN6X-H1141	M1634829	<i>Uprox+</i> , Teflon	4	
	Bi 4U-EM12-AP6X-H1141	M1634807	<i>Uprox+</i> , Stainless Steel	4	3-Wire DC PNP
	Bi 4U-EM12WD-AP6X-H1141	M1634812	<i>Uprox+</i> , Washdown	4	
	Bi 4U-M12-AP6X-H1141	M1634804	<i>Uprox+</i>	4	
	Bi 4U-MT12-AP6X-H1141	M1634809	<i>Uprox+</i> , Teflon	4	
	Bi 4U-MT12E-AP6X2-H1141*	M1644742	<i>Uprox+</i> , Dual LED's	4	
12 mm - Nonembeddable, <i>eurofast</i> Connection 	Ni10U-EM12-AN6X-H1141	M1634828	<i>Uprox+</i> , Stainless Steel	10	3-Wire DC NPN
	Ni10U-EM12WD-AN6X-H1141	M1634837	<i>Uprox+</i> , Washdown	10	
	Ni10U-M12-AN6X-H1141	M1634826	<i>Uprox+</i>	10	
	Ni10U-MT12-AN6X-H1141	M1634830	<i>Uprox+</i> , Teflon	10	
	Ni10U-EM12-AP6X-H1141	M1634808	<i>Uprox+</i> , Stainless Steel	10	3-Wire DC PNP
	Ni10U-EM12WD-AP6X-H1141	M1634814	<i>Uprox+</i> , Washdown	10	
	Ni10U-M12-AP6X-H1141	M1634806	<i>Uprox+</i>	10	
	Ni10U-MT12-AP6X-H1141	M1634810	<i>Uprox+</i> , Teflon	10	
	Ni10U-MT12E-AP6X2-H1141*	M1634844	<i>Uprox+</i> , Dual LED's	10	
12 mm - Embeddable, Potted-in Cable 	Bi 4U-EM12WD-AN6X	M1634842	<i>Uprox+</i> , Washdown	4	3-Wire DC NPN
	Bi 4U-M12-AN6X	M1634823	<i>Uprox+</i>	4	
	Bi 4U-EM12WD-AP6X	M1634811	<i>Uprox+</i> , Washdown	4	3-Wire DC PNP
	Bi 4U-M12-AP6X	M1634803	<i>Uprox+</i>	4	
					3-Wire DC NPN
12 mm - Nonembeddable, Potted-in Cable 	Ni10U-EM12WD-AN6X	M1634838	<i>Uprox+</i> , Washdown	10	3-Wire DC NPN
	Ni10U-M12-AN6X	M1634825	<i>Uprox+</i>	10	
					3-Wire DC PNP
	Ni10U-EM12WD-AP6X	M1634813	<i>Uprox+</i> , Washdown	10	3-Wire DC PNP
	Ni10U-M12-AP6X	M1634805	<i>Uprox+</i>	10	

* MT12E = extended barrel length 62mm.



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	-30 to +85	IP 68	CPB	LCP	N/A	YE	PKG 3Z-*	5	Diagram 1
10-30 VDC	2000	≤200	-30 to +85	IP 68	SS	LCP	N/A	YE	RK 4T-*	1	Diagram 2
	2000	≤200	-30 to +85	IP 68, 69K	SS	LCP	N/A	YE	RK 4T-*	1	
	2000	≤200	-30 to +85	IP 68	CPB	LCP	N/A	YE	RK 4T-*	1	
	2000	≤200	-30 to +85	IP 68	TC	LCP	N/A	YE	RK 4T-*	1	
10-30 VDC	2000	≤200	-30 to +85	IP 68	SS	LCP	N/A	YE	RK 4T-*	2	Diagram 3
	2000	≤200	-30 to +85	IP 68, 69K	SS	LCP	N/A	YE	RK 4T-*	2	
	2000	≤200	-30 to +85	IP 68	CPB	LCP	N/A	YE	RK 4T-*	2	
	2000	≤200	-30 to +85	IP 68	TC	LCP	N/A	YE	RK 4T-*	2	
	2000	≤200	-30 to +85	IP 68	TC	LCP	GN	YE	RK 4, 4T-*	2	
10-30 VDC	1000	≤200	-30 to +85	IP 68	SS	LCP	N/A	YE	RK 4T-*	1	Diagram 4
	1000	≤200	-30 to +85	IP 68, 69K	SS	LCP	N/A	YE	RK 4T-*	1	
	1000	≤200	-30 to +85	IP 68	CPB	LCP	N/A	YE	RK 4T-*	1	
	1000	≤200	-30 to +85	IP 68	TC	LCP	N/A	YE	RK 4T-*	1	
10-30 VDC	1000	≤200	-30 to +85	IP 68	SS	LCP	N/A	YE	RK 4T-*	2	Diagram 5
	1000	≤200	-30 to +85	IP 68, 69K	SS	LCP	N/A	YE	RK 4T-*	2	
	1000	≤200	-30 to +85	IP 68	CPB	LCP	N/A	YE	RK 4T-*	2	
	1000	≤200	-30 to +85	IP 68	TC	LCP	N/A	YE	RK 4T-*	2	
	1000	≤200	-30 to +85	IP 68	TC	LCP	GN	YE	RK 4T-*	2	
10-30 VDC	2000	≤200	-30 to +85	IP 68, 69K	SS	LCP	N/A	YE	2M/PUR	3	
	2000	≤200	-30 to +85	IP 68	CPB	LCP	N/A	YE	2M/PVC	3	
10-30 VDC	2000	≤200	-30 to +85	IP 68, 69K	SS	LCP	N/A	YE	2M/PUR	4	
	2000	≤200	-30 to +85	IP 68	CPB	LCP	N/A	YE	2M/PVC	4	
10-30 VDC	1000	≤200	-30 to +85	IP 68, 69K	SS	LCP	N/A	YE	2M/PUR	3	
	1000	≤200	-30 to +85	IP 68	CPB	LCP	N/A	YE	2M/PVC	3	
10-30 VDC	1000	≤200	-30 to +85	IP 68, 69K	SS	LCP	N/A	YE	2M/PUR	4	
	1000	≤200	-30 to +85	IP 68	CPB	LCP	N/A	YE	2M/PVC	4	

Uprox+

* Length in meters.

WIRING DIAGRAM		LOCKNUT LN-M12		SPECIFICATIONS	
BN BK BU LOAD OUTPUT: AN6X		M12x1 .669 17.0 .768 19.5 .157 4.0			
SHORT-CIRCUIT AND OVERLOAD PROTECTED					

M12x1 4-WAY LED 1.417 [36.0] 2.047 [52.0]		
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RELATED DOCUMENTS				3RD ANGLE PROJECTION		THIS DRAWING IS PROPERTY OF TURCK INC. USE OF THIS DOCUMENT WITHOUT WRITTEN PERMISSION IS PROHIBITED.		TURCK INC <i>High Technology Sensors and Automation Controls</i>	
1. 2. 3. 4.						DRFT RDS		DATE 05/08/06	
MATERIAL				TOLERANCES UNLESS OTHERWISE SPECIFIED		DSGN TB		SCALE 1=1.0	
FINISH				.X ±0.02 .XX ±0.01 .XXX ±0.005 ANGLES ±1° ALL MILLIMETER DIMENSIONS ARE REFERENCE ONLY		UNIT OF MEASUREMENT INCH [MILLIMETER]		DESCRIPTION BI 4U-M12-AN6X-H1141	
A DRAWING RELEASE				RDS 05/09/06		DO NOT SCALE THIS DRAWING		IDENTIFICATION NO. M1634824	
REV DESCRIPTION				BY DATE ECO NO.		FILE: M1634824		REV A	
								SHEET 1 OF 1	