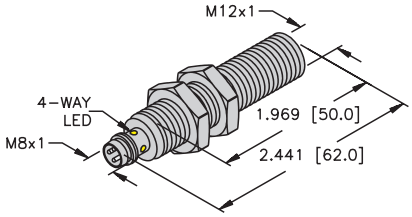
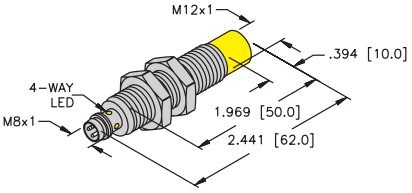
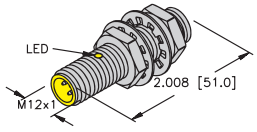
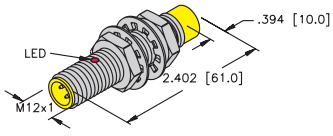
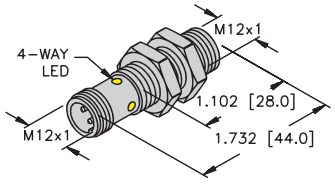
Inductive Sensors





Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, *picofast*® Connection 	Bi 2-G12-AN6X-V1131	T4635583		2	3-Wire DC NPN
	Bi 4-G12-AN6X-V1131	M1690707	*Extended Range*	4	
	Bi 2-G12-AP6X-V1131	T4606597		2	3-Wire DC PNP
	Bi 4-G12-AP6X-V1131	M1690703	*Extended Range*	4	
12 mm - Nonembeddable, *picofast* Connection 	Ni 5-G12-AN6X-V1131	T4635721		5	3-Wire DC NPN
	Ni 5-G12-AP6X-V1131	T4635690		5	3-Wire DC PNP
12 mm - Embeddable, *eurofast*® Connection 	Bi 2-G12-AN6X-H1141	T4606693		2	3-Wire DC NPN
	Bi 2-G12-AP6X-H1141	T4606595		2	3-Wire DC PNP
	Bi 4-EG12-AP6X-H1141	T4607091	*Extended Range*	4	
12 mm - Nonembeddable, *eurofast* Connection 	Ni 5-G12-AN6X-H1141	T4635793		5	3-Wire DC NPN
	Ni 5-G12-AN7X-H1141	T1714593		5	
	Ni 8-G12-AN6X-H1141	T4611383	*Extended Range*	8	
	Ni 5-G12-AP6X-H1141	T4635692		5	3-Wire DC PNP
	Ni 5-G12-YO-H1141	T1005594		5	2-Wire DC NAMUR
12 mm - Embeddable, *eurofast* Connection 	Bi 2-G12K-AP6X-H1141	M4670260		2	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 #
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	PKG 3Z-*	1
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	PKG 3Z-*	1
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	PKG 3Z-*	2
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	PKG 3Z-*	2
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	PKG 3Z-*	1
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	PKG 3Z-*	2
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 4T-*	4
	2000	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RKV 4T-*	4
10-30 VDC	2000	≤200	-25 to +70	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
	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 4T-*	4
5-30 VDC	2000	Remote	-25 to +70	IP 67	CPB	PA 12	N/A	N/A	RK 4.21T-*	5
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	N/A	RK 4T-*	4

Wiring Diagrams

Diagram 1

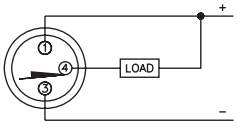


Diagram 2

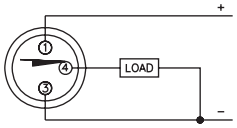


Diagram 3

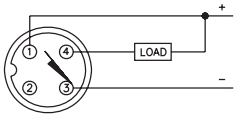


Diagram 4

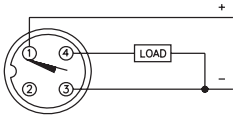
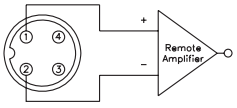
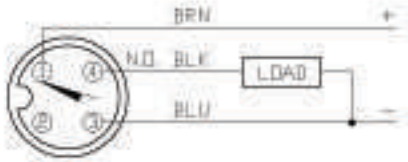


Diagram 5



* Length in meters.

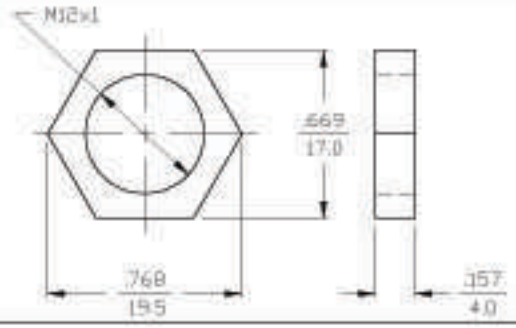
WIRING DIAGRAMS



OUTPUT: AP6X

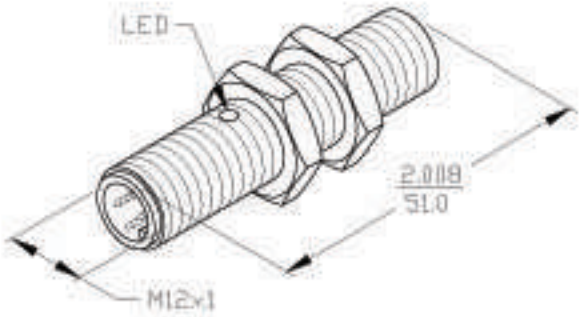
SHORT-CIRCUIT AND OVERLOAD PROTECTED

LOCKNUT LN-M12



SPECIFICATIONS

OPERATING VOLTAGE	10-30 V DC (SHORT-CIRCUIT PROTECTED)
RIPPLE	≤10%
HYSTERESIS (DIFFERENTIAL TRAVEL)	3-15% (5% TYPICAL)
VOLTAGE DROP ACROSS CONNECTING SENSOR	≤1.8 V at 200 mA
OUTPUT FUNCTION	NORMALLY OPEN 3-WIRE DC SOLID-STATE
TTL COMPATIBLE	NO
SHORT-CIRCUIT PROTECTED	YES
TRIGGER CURRENT FOR OVERLOAD PROTECTION	≥220 mA
CONTINUOUS LOAD CURRENT	≤200 mA
LEAKAGE (OFF-STATE) CURRENT	<10 µA
NO-LOAD CURRENT	5.5-9.5 mA
TIME DELAY BEFORE AVAILABILITY	≤8 ms
POWER-ON EFFECT PROTECTION	INCORPORATED
POLARITY INVERSION PROTECTION	INCORPORATED
WIRE BREAK PROTECTION	INCORPORATED
PROTECTION AGAINST TRANSIENTS	2 kV, 1 ms, 1 kΩ
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	RED: OUTPUT ENERGIZED
SENSING RANGE	2 mm = .079" (NOMINAL)
SWITCHING FREQUENCY	2000 Hz
REPEATABILITY	≤2%
SHIELDED	YES



REV	DESCRIPTION	DRFT	DATE	CHKD
A	SEE REVISION DOCUMENT G12H-AN6	GMB	3/22/91	

REVISIONS

MATERIAL	BRASS BARREL
FINISH	COPPER/NICKEL/ CHROME PLATING
DRWN GMB	DATE 4/4/89
CHKD	DATE
TWD	
DIMENSIONS ARE IN	INCHES / MM

3RD ANGLE PROJECTION

TURCK inc

PART NO. Bi2-G12-AP6X-H1141

SIZE	ID NO.	REV
B	4606595	A

SCALE NONE | BMDD\4606595 | SHEET ___ OF ___