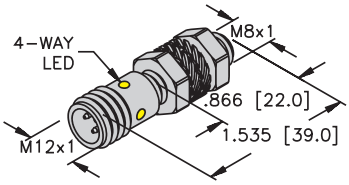
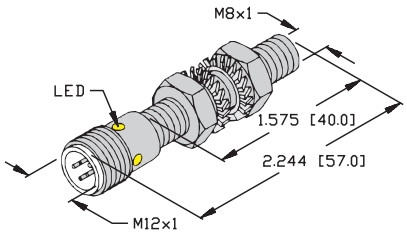
Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
8 mm - Embeddable, Miniature Threaded, *eurofast*® Quick Disconnect 	Bi 2-EG08K-AG41X-H1341	S4562011	*Short Barrel*	2	**2-Wire DC**
	Bi 2-EG08K-AG41X-H1341/S1589	S4562090	*weldguard*®	2	
	Bi 1.5-EG08K-AN6X-H1341	S4669150	*Short Barrel*	1.5	**3-Wire DC NPN**
	Bi 2-EG08K-AN6X-H1341	S4669560	*Short Barrel*	2	
	Bi 1.5-EG08K-AP6X-H1341	S4669050	*Short Barrel*	1.5	**3-Wire DC PNP**
	Bi 2-EG08K-AP6X-H1341	S4669460	*Short Barrel*	2	
	Bi 2-EG08K-AP6X-H1341/S1589	S4669486	*weldguard*	2	
	Bi 1.5-EG08K-Y1-H1341	S1003620	*Short Barrel*	1.5	**2-Wire DC NAMUR**
	Bi 1.5-EG08K-Y1X-H1341	S1003640	*Short Barrel*	1.5	
8 mm - Embeddable, Miniature Threaded, *eurofast* Quick Disconnect 	Bi 2-EG08-AG41X-H1341	S4562001	*Ext. Range*	2	**2-Wire DC**
	Bi 2-EG08-AG41X-H1341/S1589	S4562095	*weldguard*	2	
	Bi 1.5-EG08-AD6X-H1341	S4600203		1.5	
	Bi 1.5-EG08-AN6X-H1341	S4602360		1.5	**3-Wire DC NPN**
	Bi 1.5-EG08WD-AN6X-H1341	S4602211	*Washdown*	1.5	
	Bi 1.5-EG08-AN7X-H1341	S4602361	*TTL Compatible*	1.5	
	Bi 1.5U-EG08-AN6X-H1341	S4600550	*Uprox*	1.5	
	Bi 2-EG08-AN6X-H1341	S4602160	*Ext. Range*	2	
	Bi 2-EG08-AN6X-H1341/S1589	S4602182	*weldguard*	2	
	Bi 2U-EG08-AN6X-H1341	S4602037	*Uprox*	2	
	Bi 1.5U-EGT08-AN6X-H1341	S4600558	*Uprox*	1.5	
	Bi 1.5-EG08-AP6X-H1341	S4602260		1.5	**3-Wire DC PNP**
	Bi 1.5-EG08WD-AP6X-H1341	S4602210	*Washdown*	1.5	
	Bi 1.5U-EG08-AP6X-H1341	S4600540	*Uprox*	1.5	
	Bi 2-EG08-AP6X-H1341	S4602060	*Ext. Range*	2	
	Bi 2-EG08-AP6X-H1341/S1589	S4602086	*weldguard*	2	
	Bi 2U-EG08-AP6X-H1341	S4602034	*Uprox*	2	
	Bi 1.5U-EG08-AP6X-H1341/S1589	S4600540-1	*Uprox/weldguard*	1.5	
	Bi 1.5U-EGT08-AP6X-H1341	S4600555	*Uprox*	1.5	
	Bi 2-EG08-VN6X-H1341	S4602521	*Comp. Outputs*	2	**4-Wire DC NPN**
	Bi 2-EG08-VP6X-H1341	S4602522	*Comp. Outputs*	2	**4-Wire DC PNP**
	Bi 1.5-EG08-Y1-H1341	S1003502		1.5	**2-Wire DC NAMUR**



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #
10-65 VDC	1000	≤100	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	1
	1000	≤100	-25 to +70	IP 67	SS	WG	N/A	YE	RK 4T-*	1
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	3
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	3
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	4
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	4
	3000	≤150	-25 to +70	IP 67	SS	WG	N/A	YE	RK 4T-*	4
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	N/A	N/A	RK 4.21T-*	5
	5000	Remote	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4.21T-*	5
10-65 VDC	1000	≤100	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	1
	1000	≤100	-25 to +70	IP 67	SS	WG	N/A	YE	RK 4T-*	1
	1000	≤100	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4.2T-*	2
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	3
	3000	≤150	-10 to +85	IP 68, 69K	SS	PA 12	N/A	YE	RK 4T-*	3
	2000	≤150	-25 to +70	IP 68	SS	PA 12	N/A	YE	RK 4T-*	3
	2000	≤150	-30 to +85	IP 67	SS	PA 12	N/A	YE	RK 4T-*	3
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	3
	3000	≤150	-25 to +70	IP 67	SS	WG	N/A	YE	RKG 4T-*	3
	1000	≤150	-35 to +85	IP 68	SS	PA 12	N/A	YE	RK 4T-*	3
	3000	≤150	-30 to +85	IP 67	TC	TC	N/A	YE	RK 4T-*	3
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	4
	3000	≤150	-10 to +85	IP 68,69K	SS	PA 12	N/A	YE	RK 4T-*	4
	2000	≤150	-30 to +85	IP 68	SS	PA 12	N/A	YE	RK 4T-*	4
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	4
	3000	≤150	-25 to +70	IP 67	SS	WG	N/A	YE	RKG 4T-2	4
	1000	≤150	-35 to +85	IP 68	SS	PA 12	N/A	YE	RK 4T-*	4
	2000	≤150	-30 to +85	IP 67	SS	WG	N/A	YE	RK 4T-*	4
	2000	≤150	-30 to +85	IP 67	TC	TC	N/A	YE	RK 4T-*	4
10-30 VDC	3000	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4.4T-*	6
10-30 VDC	3000	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4.4T-*	7
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	N/A	N/A	RK 4.21T-*	5

Wiring Diagrams

Diagram 1

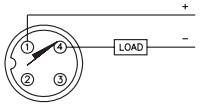


Diagram 2

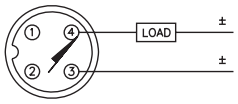


Diagram 3

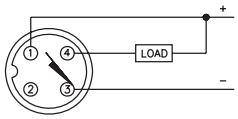


Diagram 4

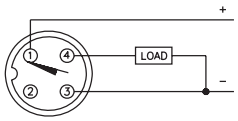


Diagram 5

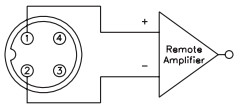


Diagram 6

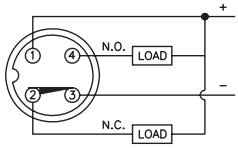
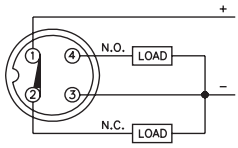
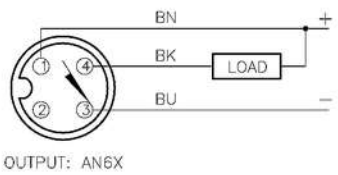


Diagram 7



* Length in meters.

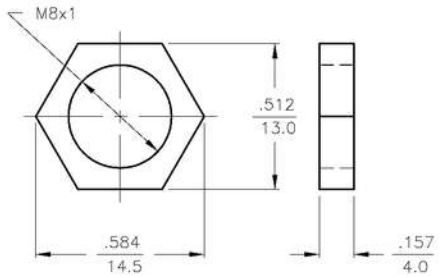
WIRING DIAGRAM



OUTPUT: AN6X

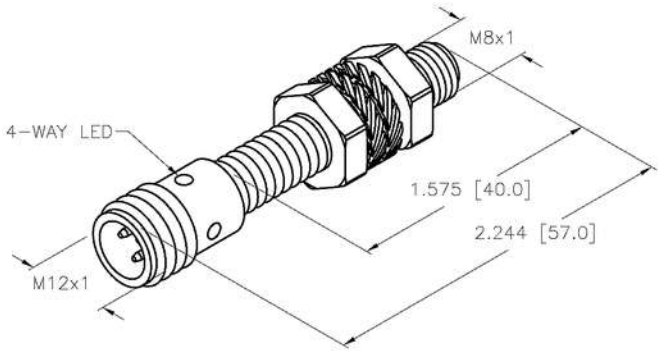
SHORT–CIRCUIT AND OVERLOAD PROTECTED

LOCKNUT LN–SS08



SPECIFICATIONS

RATED OPERATING DISTANCE	2mm = .079" (NOMINAL)
MOUNTING MODE	FLUSH
MIN. REPEAT ACCURACY	≤ 2%
TEMPERATURE DRIFT	≤ ±10%
HYSTERESIS (SWITCHING DISTANCE)	3–15%
OPERATING TEMPERATURE	–25°C to +70°C (–13°F to +158°F)
RATED OPERATIONAL VOLTAGE	10–30 VDC
MAX. RIPPLE	≤ 10%
DC RATED OPERATIONAL CURRENT	≤ 150 mA
NO–LOAD CURRENT	≤ 15 mA
MAX. OFF–STATE CURRENT	≤ 0.1 mA
RATED INSULATION VOLTAGE	≤ 0.5 kV
SHORT–CIRCUIT PROTECTION	INCORPORATED
MAX. VOLTAGE DROP	≤ 1.8 V
WIRE BREAKAGE PROTECTION	INCORPORATED
REVERSE POLARITY PROTECTION	INCORPORATED
OUTPUT FUNCTION	3–WIRE, NORMALLY OPEN, NPN
MAX. SWITCHING FREQUENCY	≤ 1 kHz
HOUSING MATERIAL	METAL, A4 1.4404 (AISI 316L)
ACTIVE FACE	PLASTIC, PA12–GF20
CONNECTOR	M8x1
VIBRATION RESISTANCE	55 Hz, 1 mm AMPLITUDE (IN ALL 3 PLANES)
SHOCK RESISTANCE	30 g, 11 ms
DEGREE OF PROTECTION	IP68
SWITCHING STATUS INDICATION	LED, YELLOW



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MATERIAL

FINISH

3RD ANGLE PROJECTION

TOLERANCES UNLESS OTHERWISE SPECIFIED
.X ±0.02
.XX ±0.01
.XXX ±0.005
ANGLES ±1°
ALL MILLIMETER DIMENSIONS ARE REFERENCE ONLY

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TURCK INC
High Technology Sensors and Automation Controls

DESCRIPTION
BI 2U–EG08–AN6X–H1341

IDENTIFICATION NO. S4602037
REV A

FILE: S4602037
SHEET 1 OF 1