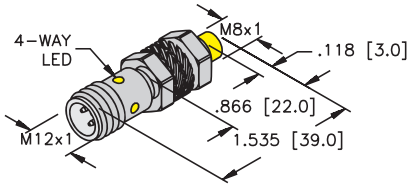
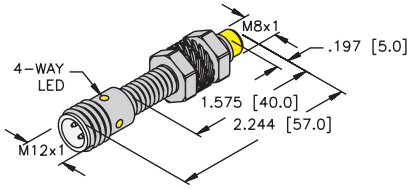
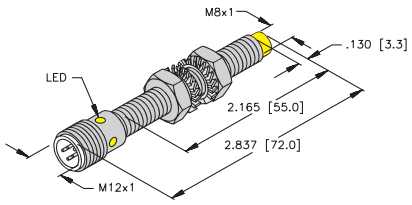
Inductive Sensors

Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
8 mm - Nonembeddable, Miniature Threaded, *eurofast*® Quick Disconnect 	Ni 4-EG08K-AG41X-H1341	S4561011	***Short Barrel***	4	**2-Wire DC**
	Ni 4-EG08K-AG41X-H1341/S1589	S4561090	***weldguard***	4	
	Ni 3-EG08K-AN6X-H1341	S4669760	***Short Barrel***	3	**3-Wire DC NPN**
	Ni 3-EG08K-AP6X-H1341	S4669660	***Short Barrel***	3	**3-Wire DC PNP**
	Ni 3-EG08K-Y1-H1341	S1003720	***Short Barrel***	3	**2-Wire DC NAMUR**
	Ni 3-EG08K-Y1X-H1341	S1003704		3	
8 mm - Nonembeddable, Miniature Threaded, *eurofast* Quick Disconnect 	Ni 4-EG08-AG41X-H1341	S4561001		4	**2-Wire DC**
	Ni 4-EG08-AG41X-H1341/S1589	S4561091	***weldguard***	4	
	Ni 3-EG08-AN6X-H1341	S4602860		3	**3-Wire DC NPN**
	Ni 3-EG08-AN6X-H1341/S1589	S4602889	***weldguard***	3	
	Ni 4U-EG08-AN6X-H1341	S4600650	***Uprox***	4	
	Ni 3-EG08-AN7X-H1341	S4669761	***TTL Compatible***	3	
	Ni 3-EG08-AP6X-H1341	S4602760		3	**3-Wire DC PNP**
	Ni 3-EG08-AP6X-H1341/S1589	S4602799	***weldguard***	3	
	Ni 4U-EG08-AP6X-H1341	S4600640	***Uprox***	4	
	Ni 4U-EG08-AP6X-H1341/S1589	S4600640-1	***Uprox/weldguard***	4	
	Ni 3-EG08-Y1-H1341	S1003730		3	**2-Wire DC NAMUR**
8 mm - Nonembeddable, Miniature Threaded, *eurofast* Quick Disconnect 	Ni 2-G08-AN6X-H1341	S4603300		2	**3-Wire DC NPN**
	Ni 3-G08-AN6X-H1341	S4602704		3	
	Ni 2-G08-AP6X-H1341	S4603200		2	**3-Wire DC PNP**
	Ni 3-G08-AP6X-H1341	S4602705		3	

Industrial Automation

TURCK works
Industrial Automation

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		RK 4T-*	1
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	2
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	3
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	N/A	N/A	RK 4.21T-*	4
	5000	Remote	-25 to +70	IP 67	SS	PA 12	N/A	N/A	RK 4.21T-*	4
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-*	2
	3000	≤150	-25 to +70	IP 67	SS	WG	N/A	YE	RK 4T-*	2
	2000	≤150	-30 to +85	IP 68	SS	PA 12	N/A	YE	RK 4T-*	2
	2000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	2
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	WG	N/A	YE	RK 4T-*	3
	2000	≤150	-30 to +85	IP 68	SS	PA 12	N/A	YE	RK 4T-*	3
	2000	≤150	-30 to +85	IP 67	SS	WG	N/A	YE	RK 4T-*	3
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	N/A	N/A	RK 4.21T-*	4
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	2
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	2
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

Wiring Diagrams

Diagram 1

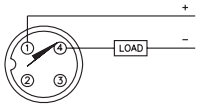


Diagram 2

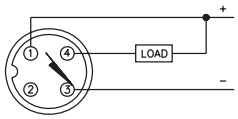


Diagram 3

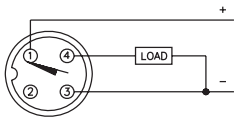
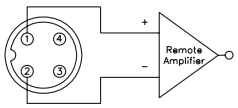
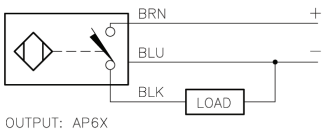


Diagram 4



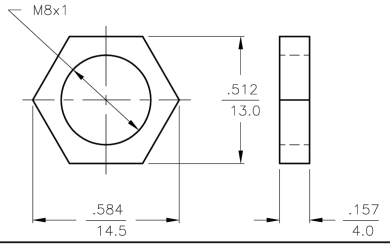
* Length in meters.

WIRING DIAGRAM



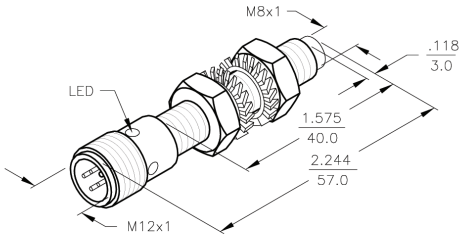
SHORT–CIRCUIT AND OVERLOAD PROTECTED

LOCKNUT LN–SS08



SPECIFICATIONS

OPERATING VOLTAGE	10–30 VDC
RIPPLE	≤10%
DIFFERENTIAL TRAVEL (HYSTERESIS)	3–15% (5% TYPICAL)
VOLTAGE DROP ACROSS CONDUCTING SENSOR	≤1.8 V at 150 mA
OUTPUT FUNCTION	NORMALLY OPEN 3–WIRE DC SELF–CONTAINED
TTL COMPATIBLE	NO
SHORT–CIRCUIT PROTECTED	YES
TRIGGER CURRENT FOR OVERLOAD PROTECTION	≥180 mA
CONTINUOUS LOAD CURRENT	≤150 mA
LEAKAGE (OFF–STATE) CURRENT	<10μ A
NO–LOAD CURRENT	8.5–13 mA
TIME DELAY BEFORE AVAILABILITY	≤8 ms
POWER–ON EFFECT PROTECTION	INCORPORATED
REVERSE POLARITY PROTECTION	INCORPORATED
WIRE–BREAK PROTECTION	INCORPORATED
PROTECTION AGAINST TRANSIENTS	EN 60947–5–2
OPERATING TEMPERATURE	–25°C to +70°C (–13°F to +158°F) W/ 10% TEMP. DRIFT; –30°C to +85°C (–13°F to +185°F) W/ 15% TEMP. DRIFT
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	YELLOW: OUTPUT ENERGIZED
SENSING RANGE	4.0 mm = .160" (NOMINAL)
SWITCHING FREQUENCY	2000 Hz
REPEATABILITY	≤2% of NOMINAL SENSING RANGE
EMBEDDABLE (SHIELDED)	NO



SOURCE DRAWING - FOR REFERENCE ONLY

REV	DESCRIPTION	BY	DATE	ECO NO.
A	DRAWING RELEASE	CBM	11/12/03	

RELATED DOCUMENTS
1.
2.
3.
4.

3RD ANGLE PROJECTION

TURCK INC
High Technology Sensors and Automation Controls

MATERIAL: STAINLESS STEEL

FINISH

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

DRFT: CBM
DATE: 11/12/03
DSGN:
SCALE: NONE

UNIT OF MEASUREMENT
INCH [MILLIMETER]
DO NOT SCALE THIS DRAWING

DESCRIPTION: NI 4U–EG08–AP6X–H1341

IDENTIFICATION NO.: S4600640
REV: A

FILE: S4600640
SHEET 1 OF 1