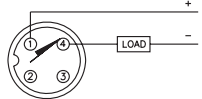
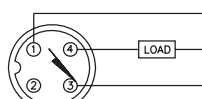
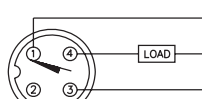
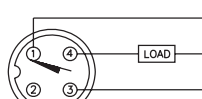
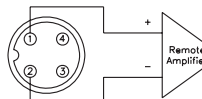
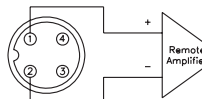


Inductive Sensors

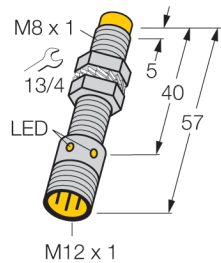


Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
8 mm - Nonembeddable, Miniature Threaded, eurofast® Quick Disconnect 	Ni 4-EG08K-AG41X-H1341	S4561011	Short Barrel	4	2-Wire DC
	Ni 4-EG08K-AG41X-H1341/S1589	S4561090	weldguard	4	
	Ni 3-EG08K-AN6X-H1341	S4669760	Short Barrel	3	3-Wire 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	

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	1000	≤100	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	1	Diagram 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	Diagram 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	Diagram 3 
	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	Diagram 3 
	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	Diagram 4 
	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	Diagram 4 
	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	

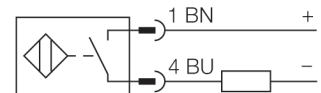
* Length in meters.

Inductive sensor with extended switching distance Ni4-EG08-AG41X-H1341



- threaded barrel, M8 x 1
- stainless steel, 1.4404
- large detection range
- 2-wire DC, 10...55 VDC
- polarized version
- normally open
- connector M12 x 1

Wiring diagram



Functional principle

Inductive sensors are designed for wear-free and non-contact detection of metal objects. For this purpose they use a high-frequency electro-magnetic AC field that interacts with the target. With inductive sensors, this field is generated by an LC resonant circuit with a ferrite core coil.

Type	Ni4-EG08-AG41X-H1341
Ident-No.	4561001
Rated operating distance Sn	4 mm
Mounting condition	non-flush
Assured sensing range	$\leq (0,81 \times S_n)$ mm
Correction factors	St37 = 1, V2A ~ 0.7, Ms ~ 0.4, Al ~ 0.3
Temperature drift	$\leq \pm 10 \%$
Hysteresis	1... 15 %
Repeatability	$\leq 2 \%$
Ambient temperature	-25...+ 70°C
Operating voltage	10... 55VDC
Residual ripple	$\leq 10 \%$ U _{SS}
DC rated operational current	≤ 100 mA
Residual current	≤ 0.6 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes / cyclic
Voltage drop at I _e	≤ 3.5 V
Output function	2-wire, normally open, 2-wire
Smallest operating current I _m	≥ 3 mA
Switching frequency	≤ 1 kHz
Housing	threaded barrel, M8 x 1
Dimensions	57 x 8 mm
Housing material	metal, AISI 316L
Material active face	plastic, plastic, PA12-GF20
Tightening torque of housing nut	10 Nm
Connection	connectors, M12 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP67
Display switch state	LED yellow