

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 2-EGT08K-AG41X-H1341	S4602543	SS, PTFE Coated	2	
	Bi 2-EGT08K-AG41X-H1341/S1589	S4602599	SS, PTFE, 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 2-EGT08-AG41X-H1341/S100	S4602542	SS, PTFE Coated	2	
	Bi 1.5-EG08-AN6X-H1341	S4602360		1.5	3-Wire DC NPN
	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 2-EGT08-AN6X-H1341/S100	S4602161	SS, PTFE Coated	2	
	Bi 1.5-EG08-AP6X-H1341	S4602260		1.5	3-Wire DC PNP
	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, SS, PTFE	1.5	
	Bi 2-EGT08-AP6X-H1341/S100	S4602257	SS, PTFE Coated	2	
	Bi 2-EGT08-AP6X-H1341/S100/S1589	S4602079	SS, PTFE, weldguard	2	
	Bi 2-EG08-VN6X-H1341	S4602521	Comp. Outputs	2	4-Wire DC NPN
	Bi 2-EGT08-VN6X-H1341	S4602264	SS, PTFE Coated	2	
	Bi 2-EGT08-VN6X-H1341/S1589	S4602589	SS, PTFE, weldguard	2	
	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

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.

3-Wire DC - (AN, RN, AP, RP)

Ripple	≤10%
Differential Travel (Hysteresis)	3-15% (5% typical)
Voltage Drop Across Conducting Sensor	≤1.8 V
	- Si...K08/K10(AP71, AN7). . . ≤0.7 V
	- Bi/Ni../S34 ≤1.8 V
	- Bi 2-Q8SE-AP/AN.. . . . ≤2.5 V
Trigger Current for Overload Protection	≥220 mA on 200 mA Load Current
	≥170 mA on 150 mA Load Current
	≥120 mA on 100 mA Load Current
Off-State (Leakage) Current	<100 µA
No-Load Current	<10 mA (Uprox ≤15 mA)
Time Delay Before Availability	≤8 ms
Power-On Effect	Per IEC 947-5-2
Reverse Polarity Protection	Incorporated
Wire-Break Protection	Incorporated
Transient Protection	Per EN 60947-5-2
Shock	30 g, 11 ms
Vibration	55 Hz, 1 mm Amplitude in all 3 Planes
Repeatability	≤2% of Rated Operating Distance
	Bi 2-Q8SE-AP/AN.. ≤5% of Rated Operating Distance

4-Wire DC (VN, VP)

Ripple	≤10%
Differential Travel (Hysteresis)	3-15% (5% typical)
Voltage Drop Across Conducting Sensor	≤1.8 V at 200 mA
Trigger Current for Overload Protection	≥220 mA on 200 mA Load Current
	≥170 mA on 150 mA Load Current
	≥120 mA on 100 mA Load Current
Off-State (Leakage) Current	<100 µA
No-Load Current	<10 mA (Uprox ≤15 mA)
Power-On Effect	Per IEC 947-5-2
Reverse Polarity Protection	Incorporated
Wire-Break Protection	Incorporated
Transient Protection	Per EN 60947-5-2
Shock	30 g, 11 ms
Vibration	55 Hz, 1 mm Amplitude in all 3 Planes
Repeatability	≤2% of Rated Operating Distance

Solid State Relay (AM6 and VM6)

Ripple	≤10%	Time Delay before availability . . .	≤50 ms
Rated Operational Current.	10-30 VDC	Reverse Polarity Protection	Incorporated
Differential.	3-15% (5% typical)	Wire-Break Protection	Incorporated
Voltage Drop		Short Circuit Protected	No
(Across Conducting Sensor) at I _e . .	400 m V	Transient Protection.	Per EN 60947-5-2
Continuous Load Current	≤6 Amp	Shock	30 g, 11 ms
Off-State (leakage) Current	≤0.1 mA	Vibration	55 Hz, 1 mm Amplitude,
Inrush Current	≤8.0 A (10.0 ms max)		in all 3 planes
No-Load Current	≤25 mA	Repeatability	≤2%