

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
8 mm - Embeddable, Miniature Threaded Barrel, Side Sensing, Potted-In Cable 	Bi 1.5-GS880-AN6X	S4604501	<i>Side Sensing</i>	1.5	3-Wire DC NPN
	Bi 1.5-GS880-AP6X	S4604401	<i>Side Sensing</i>	1.5	3-Wire DC PNP
	Bi 1.5-GS880-Y0	S1004401	<i>Side Sensing</i>	1.5	2-Wire DC NAMUR
8 mm - Embeddable, Miniature Threaded Barrel, Potted-In Cable 	Bi 2-EG08K-AG41X	S4562010		2	2-Wire DC
	Bi 2-EG08K-AG41X/S1589	S4562091	<i>weldguard®</i>	2	
	Bi 2-EG08K-AG41X/S1610	S4562096	<i>armorguard</i>	2	
	Bi 1.5-EG08K-AN6X	S4669140	<i>Short Barrel</i>	1.5	3-Wire DC NPN
	Bi 2-EG08K-AN6X	S4669500	<i>Short Barrel</i>	2	
	Bi 2-EG08K-AN6X/S1589	S4669587	<i>weldguard</i>	2	
	Bi 2-EG08K-AN6X/S957*	S4669503	<i>Flush Mount</i>	2	
	Bi 1.5-EG08K-AP6X	S4669040	<i>Short Barrel</i>	1.5	3-Wire DC PNP
	Bi 2-EG08K-AP6X	S4669400	<i>Short Barrel</i>	2	
	Bi 2-EG08K-AP6X/S957*	S4669453	<i>Flush Mount</i>	2	
	Bi 2-EG08K-AP6X/S97	S4669413	<i>Low Temp.</i>	2	
	Bi 1.5-EG08K-AP6/S100	S4669016	<i>High Temp. 100°C</i>	1.5	
	Bi 2-EGT08K-AP6X	S4602541		2	
	Bi 2-EGT08K-AP6X/S100	S4602544	<i>High Temp. 100°C</i>	2	
	Bi 2-EGT08K-AP6X/S1589	S46025413	<i>SS, PTFE, weldguard</i>	2	
	Bi 1.5-EG08K-Y1	S1003600	<i>Short Barrel</i>	1.5	2-Wire DC NAMUR

* Full flush mounting in steel without reducing 2 mm sensing range.

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%