

Housing Style - Rectangular	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
8.0 mm - Embeddable, Potted-In Cable 	Bi 5-Q08-AD4X/S34	S4414550	<i>Weld-field Immune</i>	•	5	2-Wire DC
	Bi 5U-Q08-AN6X2	S1608911	<i>Uprox</i>	•	5	3-Wire DC NPN
	Bi 5-Q08-AN6X2/S34		<i>Weld-field Immune</i>	•	5	
	Bi 7-Q08-AN6X2	S1601620	<i>Ext. Range</i>	•	7	
	Bi 8U-Q08-AN6X2	S1662007	<i>Uprox</i>	•	8	
	Bi 5U-Q08-AP6X2	S1608901	<i>Uprox</i>	•	5	3-Wire DC PNP
	Bi 5-Q08-AP6X2/S34	S1600800	<i>Weld-field Immune</i>	•	5	
	Bi 7-Q08-AP6X2	S1601600	<i>Ext. Range</i>	•	7	
	Bi 8U-Q08-AP6X2	S1662006	<i>Uprox</i>	•	8	
	Bi 5-Q08-VN6X2	S1600200	<i>Comp. Outputs</i>	•	5	4-Wire DC NPN
	Bi 5-Q08-VN6X2/S34		<i>Weld-field Immune</i>	•	5	
	Bi 7-Q08-VN6X2	S1600920	<i>Ext. Range</i>	•	7	
	Bi 5-Q08-VP6X2	S1600100	<i>Comp. Outputs</i>	•	5	4-Wire DC PNP
	Bi 5-Q08-VP6X2/S34	S1600101	<i>Weld-field Immune</i>	•	5	
	Bi 7-Q08-VP6X2	S1600900	<i>Ext. Range</i>	•	7	
Bi 5-Q08-Y1X	S4054000			•	5	2-Wire NAMUR

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Front Cap/Face	Power LED	Output LED	Mating Cord, Cable Length/Jacket	Wiring Diagram #	Wiring Diagrams
10-65 VDC	50	≤100	-25 to +70	IP 67	Zinc	PA 12	N/A	YE	2M/PVC	1	<p>Diagram 1</p>
10-30 VDC	1000	≤200	-30 to +85	IP 67	Zinc	PA 12	GN	YE	2M/PVC	2	<p>Diagram 2</p>
	300	≤100	-25 to +70	IP 67	Zinc	PA 12	GN	YE	2M/PVC	2	
	500	≤200	-25 to +70	IP 67	Zinc	PA 12	GN	YE	2M/PVC	2	
	1000	≤200	-30 to +85	IP 67	Zinc	PA 12	GN	YE	2M/PVC	2	
10-30 VDC	1000	≤200	-30 to +85	IP 67	Zinc	PA 12	GN	YE	2M/PVC	3	<p>Diagram 3</p>
	300	≤100	-25 to +70	IP 67	Zinc	PA 12	GN	YE	2M/PVC	3	
	500	≤200	-25 to +70	IP 67	Zinc	PA 12	GN	YE	2M/PVC	3	
	1000	≤200	-30 to +85	IP 67	Zinc	PA 12	GN	YE	2M/PVC	3	
10-30 VDC	1000	≤200	-25 to +70	IP 67	Zinc	PA 12	GN	YE	2M/PVC	4	<p>Diagram 4</p>
	300	≤100	-25 to +70	IP 67	Zinc	PA 12	GN	YE	2M/PVC	4	
	500	≤200	-25 to +70	IP 67	Zinc	PA 12	GN	YE	2M/PVC	4	
10-30 VDC	1000	≤200	-25 to +70	IP 67	Zinc	PA 12	GN	YE	2M/PVC	5	<p>Diagram 5</p>
	300	≤100	-25 to +70	IP 67	Zinc	PA 12	GN	YE	2M/PVC	5	
	500	≤200	-25 to +70	IP 67	Zinc	PA 12	GN	YE	2M/PVC	5	
5-30 VDC	1000	Remote	-25 to +70	IP 67	Zinc	PA 12	N/A	YE	2M/PVC	6	<p>Diagram 6</p>

3-Wire DC

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

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