

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, eurofast[®] Connection, PTFE Coated 	Bi10U-MT30-AD4X-H1144	M4405074	Uprox PTFE	10	2-Wire DC
	Bi10U-MT30H-AD4X-H1144/S1589	M4405096	Uprox PTFE, weldguard	10	
	Bi12-MT30H-AD4X-H1141	T4417094	Stoneface	12	
	Bi12-MT30H-AD4X-H1141/S1589	T4417097	weldguard[®]	12	
	Bi12-MT30H-AD4X-H1144	T4417095	Stoneface	12	
	Bi12-MT30H-AD4X-H1144/S1589	T4417098	weldguard	12	
	Bi10U-MT30-AN6X-H1141	M1636250	Uprox	10	3-Wire DC NPN
	Bi10U-MT30-AP6X-H1141	M1636240	Uprox	10	3-Wire DC PNP
	Bi10U-MT30-AP6X2-H1141	M1636245	Uprox	10	
	Bi10U-MT30H-AP6X2-H1141	M1636220	Stoneface, Uprox	10	
	Bi10U-MT30H-AP6X2-H1141/S1589	M1636291	weldguard, Uprox	10	
	Bi15U-MT30-AP6X-H1141	M1636734	Uprox PTFE	15	
	Bi15U-MT30-AP6X2-H1141	M1644741	Uprox Dual LED's	15	
30 mm - Embeddable, eurofast[®] Connection, PTFE Coated 	Bi10U-MT30H-AP6X2-H1141/S1610	M1636292	weldguard, Uprox	10	3-Wire DC PNP
30 mm - Embeddable, eurofast Connection, Extended Barrel Length 	Bi10-M30E-AD4X-H1141	T4417501		10	2-Wire DC
	Bi15-M30E-AN6X-H1141	T4618690	Extended Range	15	3-Wire DC NPN
	Bi10U-EM30E-AP6X-H1141	M1636322	Uprox	10	3-Wire DC PNP
	Bi10U-EM30HE-AP6X2-H1141	M1636415	Stoneface, Uprox	10	
	Bi15-M30E-AP6X-H1141	T4618590	Extended Range	15	4-Wire DC NPN
	Bi10-M30E-VN4X-H1141	T1571690	Comp. Outputs	10	
	Bi10-M30E-VP4X-H1141	T1561690	Comp. Outputs	10	4-Wire DC PNP

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%