

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, <i>minifast</i>® Connection 	Bi10-G30-AN6X-B1141	T4695400		10	3-Wire DC NPN
	Bi10-G30-AP6X-B1141	T4696500		10	3-Wire DC PNP
30 mm - Embeddable, <i>minifast</i> Right Angle Connection 	Bi10-G30-AN6X-B1441	T4695800		10	3-Wire DC NPN
	Bi10-G30-AP6X-B1441	T4696900		10	3-Wire DC PNP
30 mm - Embeddable, <i>minifast</i> Connection 	Bi10-G30-ADZ30X2-B1131	T4207500		10	2-Wire AC/DC Short-Circuit Protected
	Bi10U-G30-ADZ30X2-B1131	M4281612	Uprox	10	
	Bi15-EG30H-ADZ30X2-B1131	T4207292	Extended Range	15	
	Bi15-G30-ADZ30X2-B1131	T4207202	Extended Range	15	
	Bi10-G30-AZ3X-B1131	T4372200		10	2-Wire AC/DC

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

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2-Wire AC w/o Short-Circuit Protection - (AZ, RZ, FZ)

Line Frequency	40-60 Hz
Differential Travel (Hysteresis).	3-15% (5% typical)
Voltage Drop Across Conducting Sensor	≤6.0 V at 400 mA
	8 and 12 mm ≤6.0 V at 100 mA
Continuous Load Current.	≤400 mA
	8 and 12 mm ≤100 mA
Off-State (Leakage) Current	≤1.7 mA
Minimum Load Current	≥5.0 mA
Inrush Current.	≤8.0 A (≤10 ms, 5% Duty Cycle)
Power-On Effect	Per IEC 947-5-2
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

2-Wire AC/DC w/Short-Circuit Protection - (ADZ, RDZ, FDZ, VDZ)

Line Frequency	40-60 Hz
Differential Travel (Hysteresis).	3-15% (5% typical)
Voltage Drop Across Conducting Sensor	≤6.0 V at 400 mA
	8 and 12 mm ≤6.0 V at 100 mA
Trigger Current for Overload Protection	AC: ≥440 mA; DC: ≥330 mA
	8 and 12 mm AC: ≥120 mA; DC: ≥120 mA
Continuous Load Current.	AC: ≤400 mA; DC: ≤300 mA
	8 and 12 mm AC: ≥100 mA; DC: ≥100 mA
Off-State (Leakage) Current	≤1.7 mA (AC)
	≤1.5 mA (DC)
Minimum Load Current	≥3.0 mA
Inrush Current.	4.0 A (≤20 ms, 10% Duty Cycle)
Power-On Effect.	Per IEC 947-5-2
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