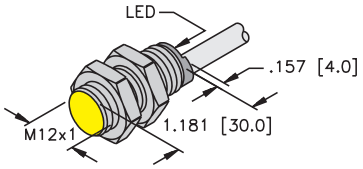
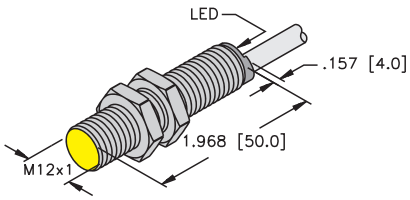
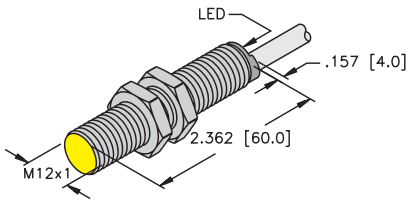
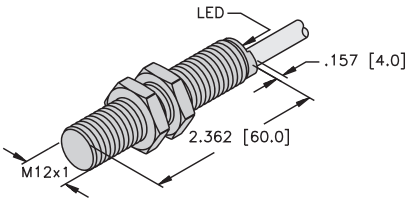
Inductive Sensors

Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, Potted-In Cable 	Bi 3-GT12K-AD4X/S1610	T4405083-2	armorguard	3	2-Wire DC
	Bi 2-EG12HK-AN6X/S1589	T4605192	*weldguard*®	2	3-Wire DC NPN
	Bi 2-G12K-AN6X	T4671200	*Short Barrel*	2	
	Bi 4-G12K-AN6X	T4670251	*Short Barrel*	4	
	Bi 2-G12K-AP6X	T4670200	*Short Barrel*	2	3-Wire DC PNP
	Bi 4-G12K-AP6X	T4670250	*Short Barrel*	4	
	Bi 2-EG12-YOX	T4012000		2	2-Wire DC NAMUR
	Bi 2-G12-YO	T1005400		2	
	Bi 2-G12-YOX	T4010000		2	
12 mm - Embeddable, Potted-In Cable 	Bi 2-EG12-AN6X	T4605101		2	3-Wire DC NPN
	Bi 2-G12-AN6X	T4635500		2	
	Bi 2-G12-AN7X	T4730500	*TTL Compatible*	2	
	Bi 4-G12-AN6X	T1690706	*Extended Range*	4	
	Bi 2-EG12-AP6X	T4605001		2	3-Wire DC PNP
	Bi 2-G12-AP6X	T4635400		2	
12 mm - Embeddable, Potted-In Cable 	Bi 2-G12-ADZ32X	T4205000		2	2-Wire AC/DC Short-circuit Protected
	Bi 4-G12-ADZ32X	T4205030	*Extended Range*	4	
	Bi 2-G12-AZ33X	T1304002		2	2-Wire AC
12 mm - Embeddable, Potted-In Cable, PTFE Coated 	Bi 2-GT12-ADZ32X/S34	T4205210	*WFI*	2	2-Wire AC/DC Short-circuit Protected
	Bi 2-GT12-AZ33X/S34	T1304052	*WFI*	2	2-Wire AC/DC

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