

Inductive - *analog+* Sensors



Housing Style	Part Number	ID Number	Features	Linear Operating Distance (mm)	Response Freq. (Hz)	Output
30 mm - Embeddable, Potted-In Cable 	Bi10-M30-LIU	M1535500		3-8	140	4-Wire DC Current and Voltage
	Bi15-M30-LIU	M1535543	Ext. Range	2-10	140	
	Bi15-M30-LI-EXI	M1535554	Ext. Range Use Barriers IM33-11EX-HI IM43-13-SR	2-10	140	2-Wire DC NAMUR Current
30 mm - Embeddable, Potted-In Cable 	Bi15-M30-LUAP6X	M4618510	Switch Point Adj.	2-10	140	4-Wire DC Voltage
30 mm - Nonembeddable, Potted-In Cable 	Ni15-M30-LIU	M1535300	Ext. Range	2-12	60	4-Wire DC Current and Voltage

For detailed sensor specifications see Section M.

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4-Wire DC Analog - (LIU)

Ripple	≤10%	Wire-Break Protection	Incorporated
No-Load Current	≤8.0 mA	Transient Protection	Per EN 60947-5-2
Voltage Output	0-10 V/R _L ≥4.7 kΩ	Shock	30 g, 11 ms
Current Output	0-20 mA/R _L ≤500 Ω	Vibration	55 Hz, 1 mm Amplitude, in all 3 planes
Linearity Tolerance	±3% of full scale	Repeatability	≤1% (0.5% after 30 min. warm up)
Temperature Tolerance	±0.06% / °C		
Reverse Polarity Protection	Incorporated		

3-Wire DC Analog - (LI2)

Ripple	≤10%	Wire-Break Protection	Incorporated
No-Load Current	≤8.0 mA	Transient Protection	Per EN 60947-5-2
Current Output	4-20 mA/R _L ≤500 Ω	Shock	30 g, 11 ms
Linearity Tolerance	±3% of full scale	Vibration	55 Hz, 1 mm Amplitude, in all 3 planes
Temperature Drift	±0.06% / °C	Repeatability	≤1% (0.5% after 30 min. warm up)
Reverse Polarity Protection	Incorporated		

LI = indicates current output only.

2 = Indicates a variance to standard which is 0-20 mA.

3-Wire DC Analog - (LF10)

Ripple	≤10%	Transient Protection	Per EN 60947-5-2
No-Load Current	≤8.0 mA	Shock	30 g, 11 ms
Frequency Output	1-10 kHz	Vibration	55 Hz, 1 mm Amplitude, in all 3 planes
Linearity Tolerance	±5% of full scale	Repeatability	≤1% (0.5% after 30 min. warm up)
Temperature Tolerance	±0.06% / °C		
Reverse Polarity Protection	Incorporated		
Wire-Break Protection	Incorporated		

LF = Linear frequency (1-10 kHz) output.

4-Wire DC Analog - (LUAP6X)

Ripple	≤10%	Voltage Drop Across Conducting Sensor	≤1.8 V
No-Load Current	≤8.0 mA	Trigger Current for	
Voltage Output	0-10 V/R _L ≥4.7 kΩ	Overload Protection	≥220 mA on 200 mA load current
Linearity Tolerance	±5% of full scale	No-Load Current	<10 mA
Temperature Tolerance	±0.06% / °C	Vibration	55 Hz, 1 mm Amplitude, in all 3 planes
Reverse Polarity Protection	Incorporated	Repeatability	≤1% (0.5% after 30 min. warm up)
Wire-Break Protection	Incorporated		
Transient Protection	Per EN 60947-5-2		
Shock	30 g, 11 ms		
Off-State (Leakage) Current	<100 mA		