

LT121E-Q21R-LI0X3-H1151

Linear position sensor



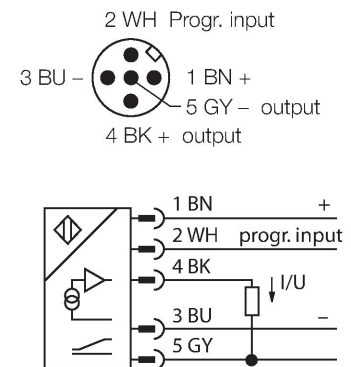
Features

- Rectangular, height 20.6 mm
- Metal, aluminium
- 16 bit resolution
- 5-wire, 13.5...30 VDC
- 16 bit resolution
- High repeatability
- Extremely high linearity
- Programmable measuring range
- Invertible output signal
- Analog output 4...20 mA
- Male connector M12 x 1

Technical data

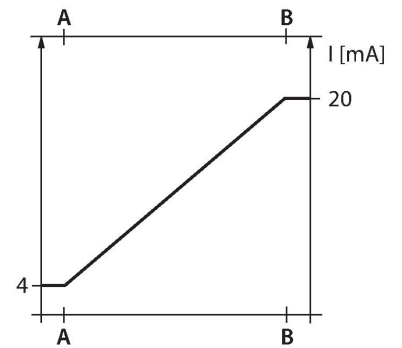
Type	LT121E-Q21R-LI0X3-H1151
ID	LT1052
Measuring principle	Magnetostrictive
General data	
Resolution	0.1 % *
Blind zone connector end L3	76.2 mm
Blind zone non-connector end L4	38.1 mm
Repeat accuracy	≤ 0.006 % of full scale
Electrical data	
Operating voltage U_B	13.5...30 VDC
Ripple U_{ss}	≤ 10 % U_{Bmax}
Short-circuit protection	yes/Cyclic
Wire break/reverse polarity protection	yes (voltage supply)
Output function	5-wire, Analog output
Current consumption	35 mA at 30 VDC, 80 mA at 10 VDC
Mechanical data	
Design	Profile, Q21
Dimensions	34.8 mm
Housing material	AL, Anodized
Electrical connection	Connector, M12 × 1
Environmental conditions	
Ambient temperature	-40...+70 °C
Vibration resistance	20 Hz (1 mm)
Shock resistance	40 g (11 ms)
Protection class	IP67
Switching state	3-color LED, Green/yellow/red

Wiring diagram



Functional principle

Magnetostrictive linear position sensors with analog output provide a signal that is proportional to the travel distance. Simple control tasks can thus be accomplished. These sensors feature an excellent repeat accuracy, resolution and linearity. Due to their extremely robust design, they are especially suited for industrial applications. They also excel in their high electromagnetic compatibility and stability over a wide temperature range. The sensors operate on the non-contact function principle and are thus wear and maintenance free.



Accessories

MB-Q21

6900279

Mounting bracket for side mounting of Q25L and Q21 linear position sensors; material: Stainless steel

