

LT81E-Q21-LI1X3-H1141

Linear position sensor



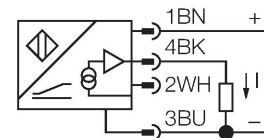
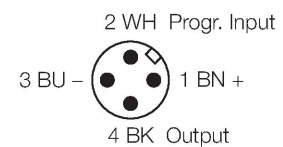
Features

- Rectangular, height 20.6 mm
- Metal, aluminium
- 4-wire, 10...30 VDC
- High repeatability
- Extremely high linearity
- Programmable measuring range
- Invertible output signal
- Analog output 20...4 mA
- Male connector M12 x 1

Technical data

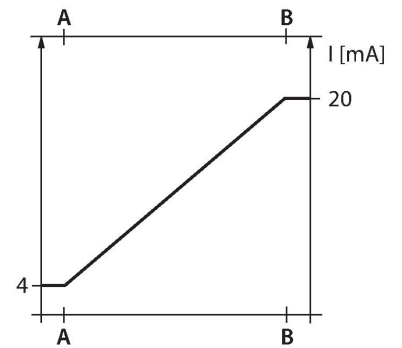
Type	LT81E-Q21-LI1X3-H1141
ID	LT1073
Measuring principle	Magnetostrictive
General data	
Measuring range	2057.4 mm
Blind zone connector end L3	76.2 mm
Blind zone non-connector end L4	38.1 mm
Repeat accuracy	≤ 0.01 % of full scale
Electrical data	
Operating voltage U_b	10...30 VDC
Short-circuit protection	yes/Cyclic
Wire break/reverse polarity protection	yes (voltage supply)
Output function	4-wire, Analog output
Current output	20...4 mA
Mechanical data	
Design	Profile, Q21
Dimensions	34.8 mm
Housing material	Metal, 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

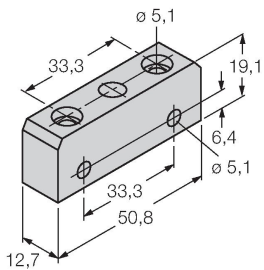
Magnetostrictive linear position sensors with analog output provide a signal that is proportional to the travel distance. Simple control tasks can thus be accomplished. These sensors feature an excellent repeat accuracy, resolution and linearity. Due to their extremely robust design, they are especially 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

FM-Q21

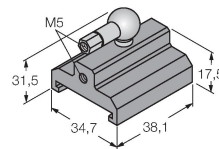
6900244



Floating positioning element; this can be installed up to 9 mm away from the sensor

SM-Q21

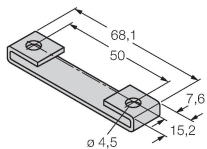
6900245



Guided positioning element; this is inserted in the groove of the sensor

MB-Q21

6900279



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