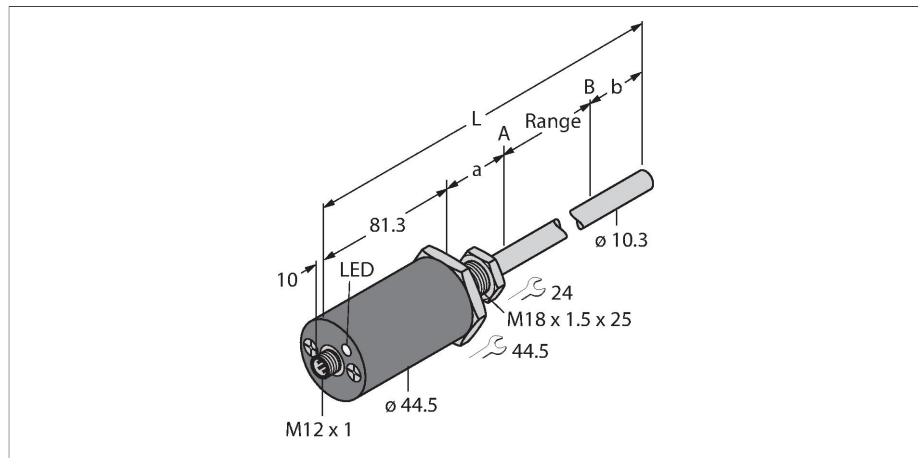


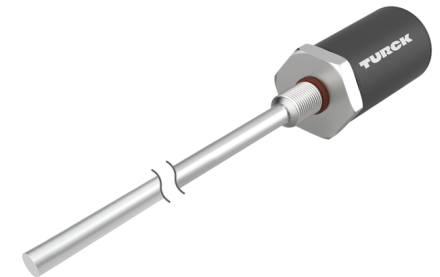
LTX1550M-F10-LI0-X3-H1151

Pressure-Resistant Linear Position Sensor – Analog



Technical data

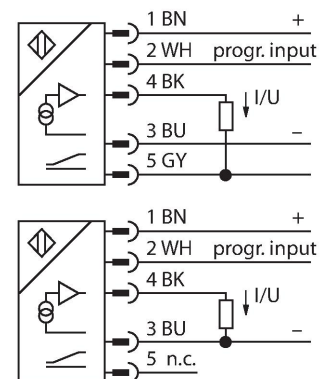
Type	LTX1550M-F10-LI0-X3-H1151
ID	1540312
Remark to product	Please note housing design on page 2
Measuring principle	Magnetostrictive
General data	
Measuring range	1550 mm
Resolution	16 bit
Blind zone a	50.8 mm
Blind zone b	63.5 mm
Repeat accuracy	≤ 0.01 % of full scale
Linearity deviation	≤ 0.01 % f.s.
Hysteresis	≤ 0.025 mm
Electrical data	
Operating voltage U_B	7...30 VDC
Ripple U_{ss}	≤ 10 % U_{Bmax}
Short-circuit protection	yes/Cyclic
Wire break/reverse polarity protection	yes (voltage supply)
Output function	5-pin, Analog output, Differential or common ground (see manual)
Current output	4...20 mA
Load resistance current output	≤ 0.5 kΩ
Current consumption	< 60 mA at 24 VDC
Mechanical data	
Design	Rod
Dimensions	1745.6 mm
Housing material	Metal, AL
Active area material	Stainless steel, 1.4404 (AISI 316L)



Features

- Suited for hydraulic cylinders
- The sensor is pressure resistant up to 340 bar (permanent), 680 bar (short-term)
- Shock-proof up to 100g
- Status displayed via 3 color LED
- 16-bit resolution
- Adjustable measuring range
- Operating temperature rod -40 °C...+105 °C
- Operating temperature electronics -40 °C...+85 °C
- Protection class IP68
- 7...30 VDC supply voltage
- Analog output 4...20 mA
- M12 × 1 connector

Wiring diagram



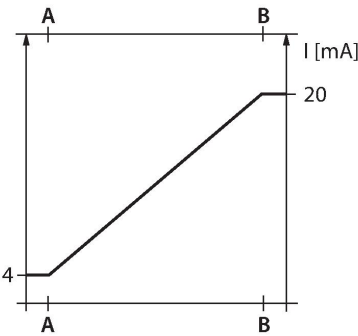
Functional principle

The LTX is a magnetostrictive sensor, optimized for precise position control in hydraulic cylinders. With the assistance of optional floats, the magnetically actuated position sensors also implement additional fill level monitoring. The absolute value sensor is very robust and precise, and also saves the position

Technical data

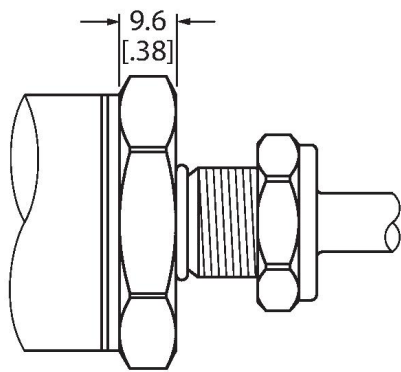
Electrical connection	Connector, M12 × 1
Environmental conditions	
Ambient temperature	-40...+85 °C
Vibration resistance	30 Hz (1 mm)
Shock resistance	100 g (11 ms)
Protection class	IP68
Measuring range display	multifunction LED

information in the event of a voltage failure, so that additional zeroing is unnecessary. The sensors operate on the contactless function principle and are thus wear and maintenance free.



Mounting instructions

Mounting instructions/Description



Flat Face Design

This sensor comes in flat face design (see drawing).

To fasten the sensor, the end cap of the hydraulic cylinder must have an M18 × 1.5 threaded bore according to ISO 6149-1. For more information, refer to the operating instructions.

Accessories

CM-R10	6900416
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Standard positioning element, suitable for mounting in hydraulic cylinders



STM-AL-R10	6900409
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Standard 4-hole positioning element, material: Aluminum



LSPM-AL-R10

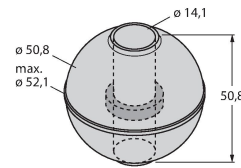
6900414



Ring-type positioning element with slot, can be used for external mounting with mounting bracket RB-R10, material: Aluminum

EF-R10

6900417



Float-type positioning element, specific weight 0.62 kg/m³, suitable for external mounting for level monitoring, material: Stainless steel

STS-R10

6900411



Standard spacer made of non-ferrous material for separating the positioning element from the base of the hydraulic piston rod

MB-R10

6900419



Mounting bracket for sensor head and rod, for external mounting

RB-R10

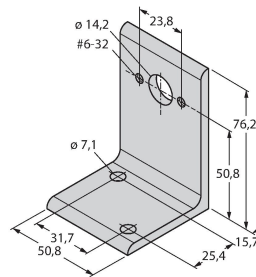
6900420



Mounting bracket for rod, for external mounting

MMB-R10

6900004



Mounting bracket for positioning element, for external mounting

RP-Q21

6900005

Teach adapter to adjust the measuring range

Kein Maßbild vorhanden/
No dimension drawing available