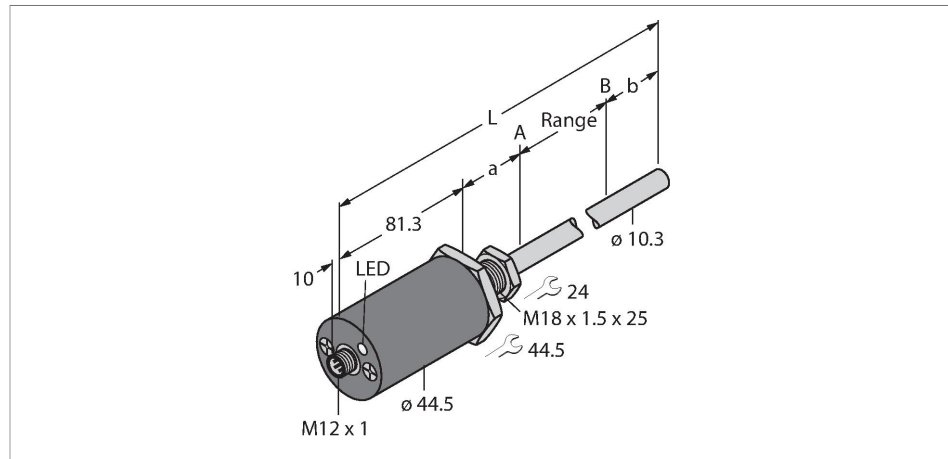


LT6E-R10-LI0-H1151

Magnetically actuated linear position sensor – Analog



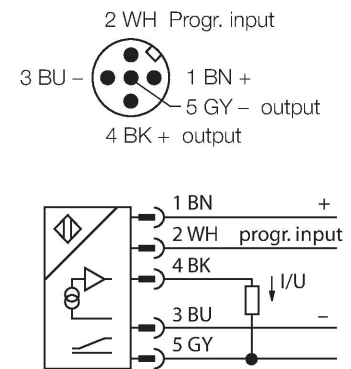
Technical data

Type	LT6E-R10-LI0-H1151
ID	LT0308
Remark to product	Please note housing design on page 2
Measuring principle	Magnetostrictive
General data	
Measuring range	152.4 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_s	13.5...30 VDC
Short-circuit protection	yes/Cyclic
Wire break/reverse polarity protection	yes (voltage supply)
Output function	4-wire, Analog output
Current output	4...20 mA
Mechanical data	
Design	Rod, R10
Dimensions	367.284 mm
Housing material	Metal, AL, Black
Active area material	Stainless steel, 1.4404 (AISI 316L)
Electrical connection	Connector, M12 × 1

Features

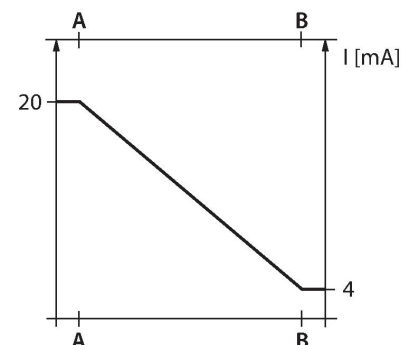
- EZ-Track Linear Displacement Transducer
- 16-bit resolution
- Adjustable measuring range
- Operating temperature rod -40 °C...+105 °C
- Operating temperature electronics -40 °C...+85 °C
- Protection class IP68
- Male connector, M12 x 1, 13.5...30VDC

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 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.



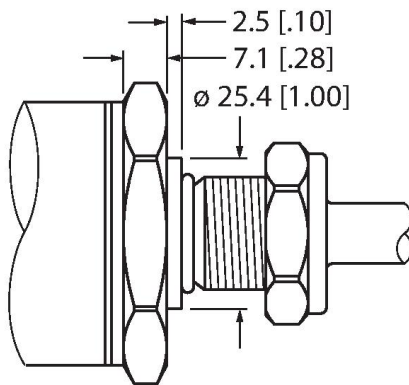
LT6E-R10-LI0-H1151 | 06/16/2026 17-11 | technical changes reserved

Technical data

Environmental conditions	
Ambient temperature	-40...+85 °C
Vibration resistance	30 Hz (1 mm)
Shock resistance	40 g (11 ms)
Protection class	IP68

Mounting instructions

Mounting instructions/Description



Raised Face Design

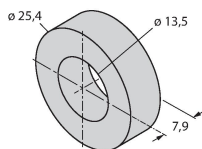
This sensor comes in raised face design (see drawing).

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

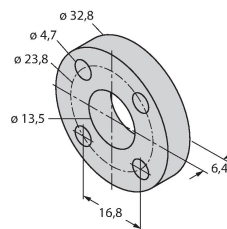
CM-R10 6900416

Standard positioning element, suitable for mounting in hydraulic cylinders



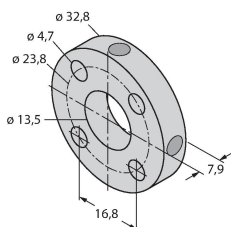
STS-R10 6900411

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



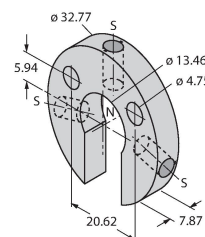
STM-AL-R10 6900409

Standard 4-hole positioning element, material: Aluminum



SPM-AL-R10 6900412

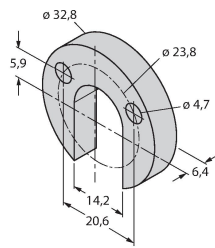
Small ring-type positioning element with slot, material: Aluminum



SPS-R10

6900413

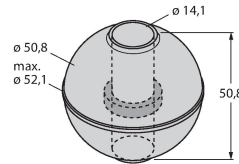
Spacer for ring-type positioning element with slot



EF-R10

6900417

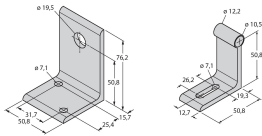
Float-type positioning element, specific weight 0.62 kg/m³, suitable for external mounting for level monitoring, material: Stainless steel



MB-R10

6900419

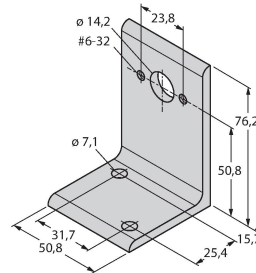
Mounting bracket for sensor head and rod, for external mounting



MMB-R10

6900004

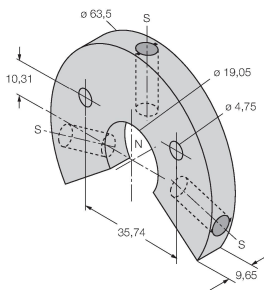
Mounting bracket for positioning element, for external mounting



LSPM-AL-R10

6900414

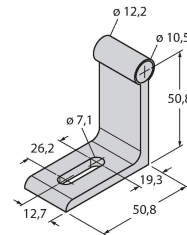
Ring-type positioning element with slot, can be used for external mounting with mounting bracket RB-R10, material: Aluminum



RB-R10

6900420

Mounting bracket for rod, for external mounting



RP-Q21

6900005

Teach adapter to adjust the measuring range

Kein Maßbild vorhanden/
No dimension drawing available