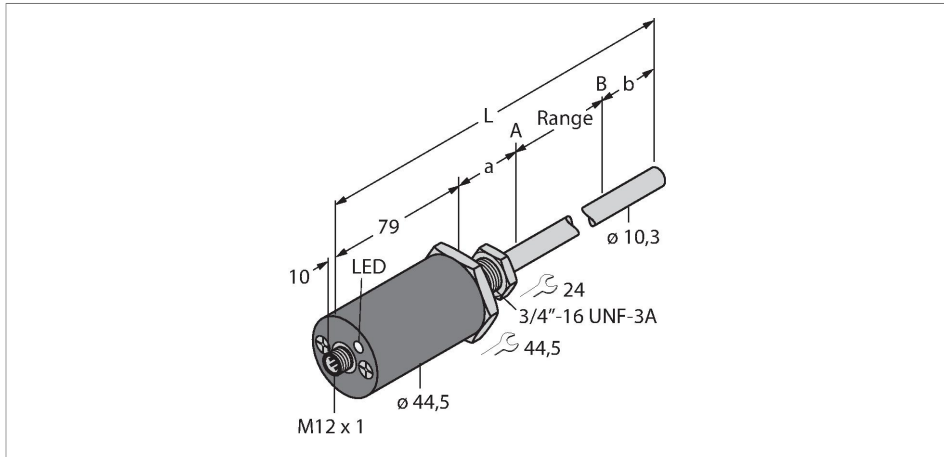


LTX8E-R10-LU0X3-H1151

EZ-Track Linear Displacement Transducer – Analog

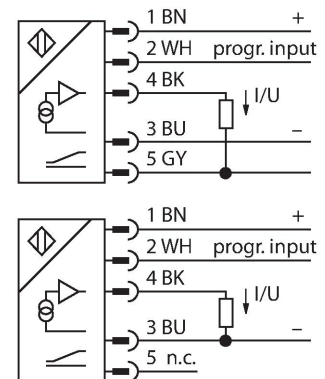


Features

- 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
- 7...30 VDC supply voltage
- Analog output 4...20 mA
- M12 × 1 connector

Technical data

Type	LTX8E-R10-LU0X3-H1151
ID	LT1101
Remark to product	Please note housing design on page 2
Measuring principle	Magnetostrictive
General data	
Measuring range	203.2 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	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)
Voltage output	0...10 V
Current output	4...20 mA
Load resistance voltage output	≥ 2 kΩ
Load resistance current output	≤ 0.5 kΩ
Current consumption	< 60 mA at 24 VDC

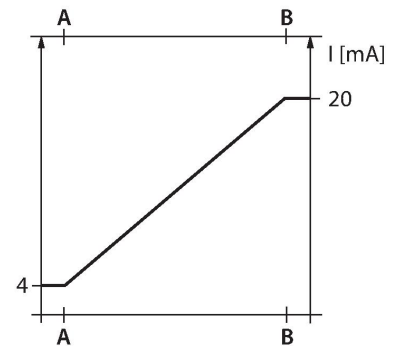


Functional principle

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.

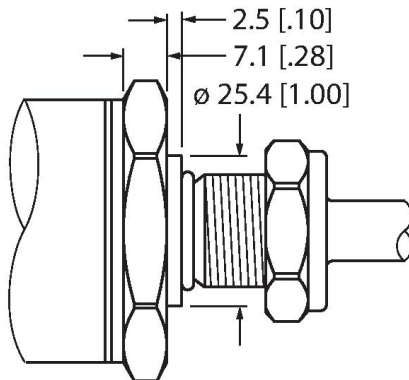
Technical data

Mechanical data	
Design	Rod, R10
Dimensions	396.2 mm
Housing material	Metal, AL, Black
Active area material	Stainless steel, 1.4404 (AISI 316L)
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



Mounting instructions

Mounting instructions/Description



Raised Face Design

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

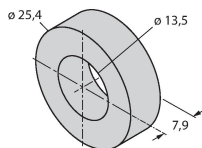
To fasten the sensor, the end cap of the hydraulic cylinder must have an M18 × 1.5 threaded bore according to ISO 6149-1. For more information, refer to the operating instructions.

Accessories

CM-R10

6900416

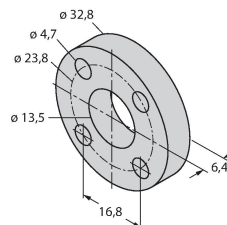
Standard positioning element, suitable for mounting in hydraulic cylinders



STS-R10

6900411

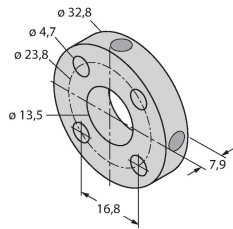
Standard spacer made of non-ferrous material for separating the positioning element from the base of the hydraulic piston rod



STM-AL-R10

6900409

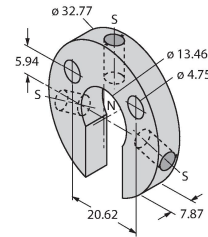
Standard 4-hole positioning element,
material: Aluminum



SPM-AL-R10

6900412

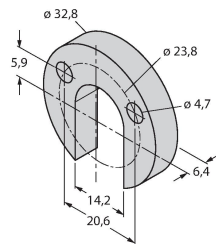
Small ring-type positioning element
with slot, material: Aluminum



SPS-R10

6900413

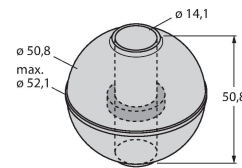
Spacer for ring-type positioning
element with slot



EF-R10

6900417

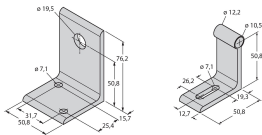
Float-type positioning element,
specific weight 0.62 kg/m³, suitable
for external mounting for level
monitoring, material: Stainless steel



MB-R10

6900419

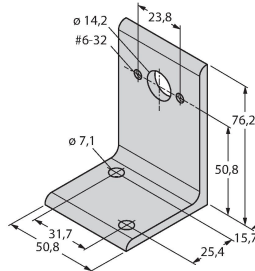
Mounting bracket for sensor head and
rod, for external mounting



MMB-R10

6900004

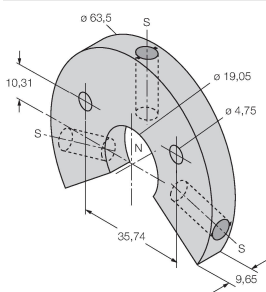
Mounting bracket for positioning
element, for external mounting



LSPM-AL-R10

6900414

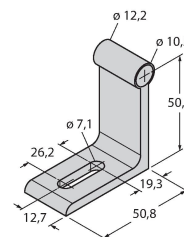
Ring-type positioning element
with slot, can be used for external
mounting with mounting bracket RB-
R10, material: Aluminum



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