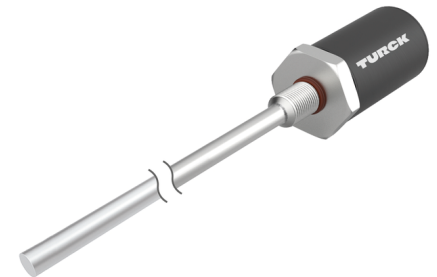
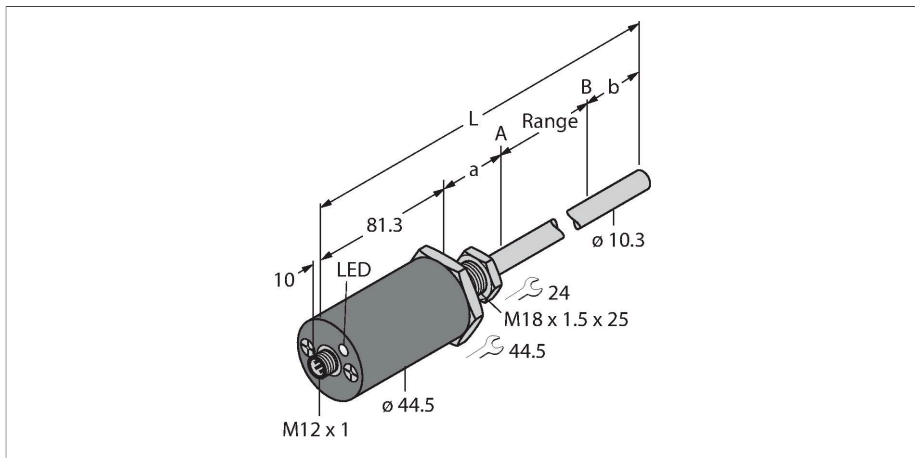


LTX750M-F10-SSI2-GAF1-X3-H1161

Pressure-Resistant Linear Position Sensor – SSI



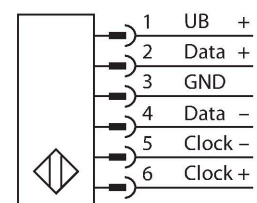
Technical data

Type	LTX750M-F10-SSI2-GAF1-X3-H1161
ID	1540238
Remark to product	Please note housing design on page 2
Measuring principle	Magnetostrictive
General data	
Measuring range	750 mm
Resolution	0.005 mm
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)
Communication protocol	SSI
Output function	6-pin, 25 Bit, Gray, asynchronous, Forward
Current consumption	< 60 mA at 24 VDC
Mechanical data	
Design	Rod
Dimensions	945.6 mm
Housing material	Metal, AL
Active area material	Stainless steel, 1.4404 (AISI 316L)
Electrical connection	Connector, M12 × 1

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
- Resolution 0,005 mm
- Operating temperature rod -40 °C...+105 °C
- Operating temperature electronics -40 °C...+85 °C
- Protection class IP68
- 7...30 V DC power supply
- SSI - output, gray coded, 25 bit
- M12 x 1 connector

Wiring diagram



Functional principle

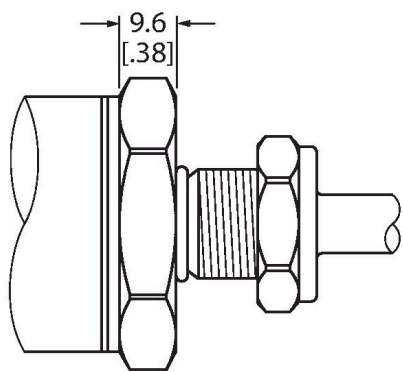
The LTX is a magnetostrictive sensor, optimized for precise position control in hydraulic cylinders. With the assistance of optional floats, the magnetically actuated position sensors also implement additional fill level monitoring. The absolute value sensor is very robust and precise, and also saves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

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



Flat Face Design

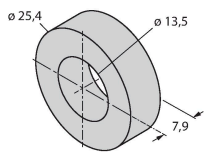
This sensor comes in flat face design (see drawing).

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

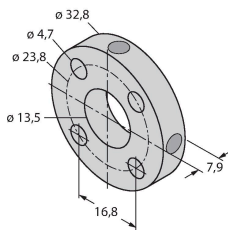
CM-R10	6900416
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Standard positioning element, suitable for mounting in hydraulic cylinders



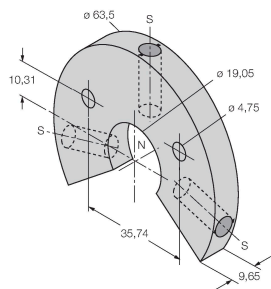
STM-AL-R10	6900409
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Standard 4-hole positioning element, material: Aluminum



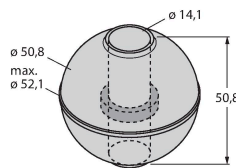
LSPM-AL-R10	6900414
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Ring-type positioning element with slot, can be used for external mounting with mounting bracket RB-R10, material: Aluminum



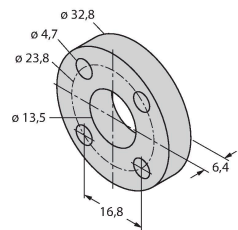
EF-R10	6900417
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Float-type positioning element, specific weight 0.62 kg/m³, suitable for external mounting for level monitoring, material: Stainless steel



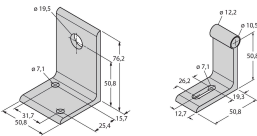
STS-R10 **6900411**

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



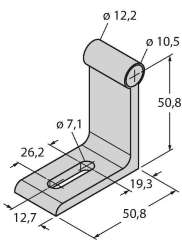
MB-R10 **6900419**

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

