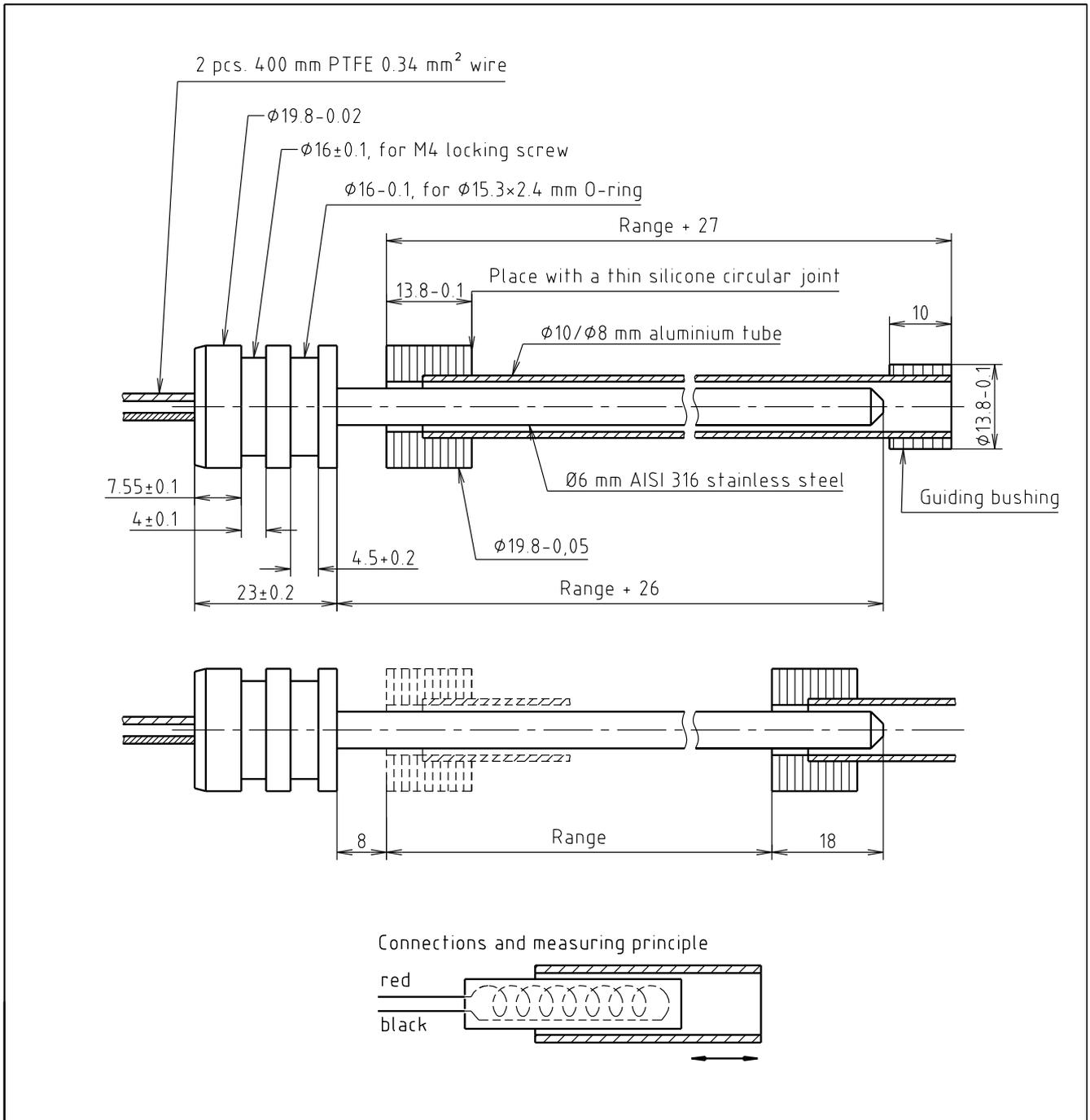


DISPLACEMENT TRANSDUCER XEH 6 for use in hydraulic cylinders



DESCRIPTION

The XEH 6 inductive displacement transducer is based on a concept where the sensing element consists of only one coil, still retaining good linearity. It is designed for installation in hydraulic cylinders. A guiding bushing centers the position sensing aluminium tube. The basic principle makes the measurement contactless both mechanically and electronically. The XEH 6 operates with the signal conditioner type TCA.

SPECIFICATIONS

Standard ranges	50 to 1000 mm in steps of 50 mm. 1100 to 1500 mm in steps of 100 mm.
Non-linearity	Max. 0.5 %, typical 0.3 %.
Temperature range	-40 °C to +155 °C.
Temperature coefficient	Please refer to the signal conditioner TCA datasheet.
Mechanical environment - vibration - shock	According to IEC 68-2-6. (10-150 Hz, 0.35 mm/5 g. 90 min. pr axis). According to IEC 68-2-27. (1000 g half sine, 1 ms. 2 shocks pr.axis).
Transducer material - coil tube - flange - sensing tube - bushings	Stainless steel AISI 316. Stainless steel. Aluminium. POM.
Electrical connection	2 pcs. 400 mm wires. Max. 100 m cable from sensor to electronics
Protection class	IP67 (only electrical connection)
Working pressure test	1: 6 bar helium leaktest 2: 350 bar hydraulic test for 15 min. 3: 6 bar helium leaktest

INSTALLATION

To minimize wear, make sure that coil tube and sensing tube has no contact in any position. Secure the aluminium tube with silicone to avoid unwanted axial movement. The signal cable from cylinder to the electronics should be shielded and the shield connected to the cylinder. The opposite shield end should be connected to the EMC-reference of the associated electronics.

ORDERING INFORMATON

XEH 6/ x

