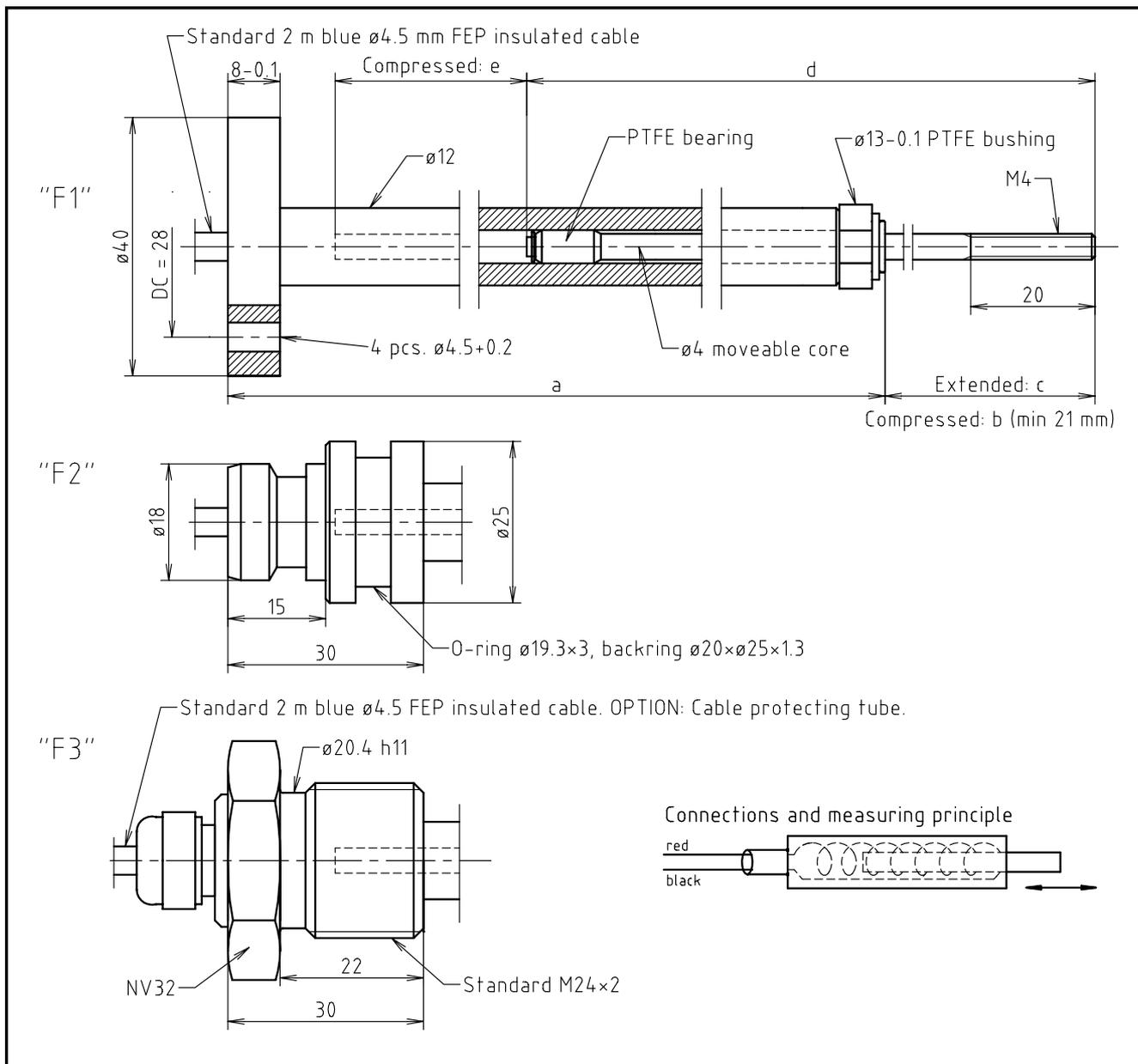


DISPLACEMENT TRANSDUCER XHY 12 for use in hydraulic cylinders



XHY 12	50	100	150	200	235	250	300	400	500	600	700	800	1000	1250	1500
Range (mm)	50	100	150	200	235	250	300	400	500	600	700	800	1000	1250	1500
a (mm)	120	180	262	302	302	334	410	523	650	750	850	950	1150	1450	1700
b (mm)	120	120	25	120	102	64	61	120	180	120	120	120	120	120	120
c (mm)	170	220	175	320	337	314	361	520	680	720	820	920	1120	1370	1620
d (mm)	210	260	215	362	362	354	411	590	750	840	870	1000	1200	1525	1770
e (mm)	12	22	55	41	23	25	39	34	61	11	81	50	50	27	25

DESCRIPTION

The XHY 12 inductive displacement transducer is based on a concept where the sensing element consists of only one coil. Special winding technique has made it possible to obtain very good linearity. The XHY 12 transducer is designed for installation in hydraulic cylinders. The bushing supporting the coil tube in the piston rod and the bearing, which centres the core in the bore-liner, are made of PTFE for low friction and long life. Provisions is made to ensure the oil to pass around and in the measuring system. Several housings are available to optimize mechanical installation. The XHY 12 operates with the signal conditioner type TCA.

SPECIFICATIONS

Standard ranges	See table on frontside
Non-linearity	< 0.5 % of FSO.
Temperature range	-40 °C to +155 °C
Temperature coefficient	Please refer to the signal conditioner TCA datasheets
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 - outer tube - bore liner - core	St 35, DIN 2391 Stainless steel AISI 316 Stainless steel SS 2382
Electrical connection	2 m FEP cable as standard Max. 100 m cable from sensor to electronics
Protection class	IP67 (only electrical connection)
Working pressure test	1: 6 bar helium leaktest 2: 500 bar hydraulic test for 15 min. 3: 6 bar helium leaktest

INSTALLATION

To minimize wear, make sure that there is no bending of the transducer core during and after installation. The core rod ends with a M4 thread for easy attachment. Secure rod with nut or locking compound. The cable shield is connected to the transducer housing. The opposite cable end should be connected to the EMC-reference of the associated electronics.

ORDERING INFORMATION

XHY 12/ x x L/x

