Installation Manual for DISPLACEMENT TRANSDUCER XEHS 6 for use in hydraulic cylinders



DESCRIPTION

The XEHS 6 sensor is suitable for measuring position inside pneumatic and hydraulic cylinders. This installation manual is a guideline on how the sensor could be installed in an application.

The XEHS 6 measures the position based on a contactless measuring principle. The sensor part is installed in the cylinder, and the sensing tube is installed in the movable piston.

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H F Jensen A/S Emdrupvej 70, DK-2400 Kbh NV www.hfjensen.dk Tel: +45 39 53 60 40 Fax: +45 39 53 60 48 info@hfjensen.dk



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. For ranges above 200 mm it is adviced to align the sensing tube in both ends of the bore inside the piston.

The sensor part is installed in an Ø20 mm bore and is fixed using for example a set screw or a retainer ring. Care should be taken when choosing the correct material for the O-ring and the back ring, this material should be suitable for long term usage in the application. The O-ring and the back ring is <u>not</u> included, when buying the sensor, neither is the retaining ring, the set screw or the spring washers, since these parts are chosen by the constructor of the final application.

While installing the sensor in the bore care should be taken not to pull the sensor into position using the cable alone. Use instead the M9 x 1 mm thread at the cable outlet end of the sensor.

The signal cable from cylinder to the electronics is shielded and the shield connected to the cylinder. The opposite shield end should be connected to the EMC-reference of the associated electronics.

The sensor is connected to the associated electronics according to the schematic found on the datasheet for the transducer conditioner amplifier, TCAB.

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