

Mai 14

Integrated displacement measurement for miniature hydraulics

Micro-Epsilon has developed the new induSENSOR EDS-28-G-CA-U, specifically for measurement applications in small hydraulic cylinders made from titanium or stainless steel. With a weight of 13 g and a size of 56 mm, the eddy current sensor is extremely robust and temperature-resistant.

This ultra lightweight, compact sensor is supplied with a flange diameter of 7.7 mm and a rod diameter of 2.5 mm. The linear measuring range is up to 28 mm but this can be extended to 100 mm when measuring the absolute displacement of or in a hydraulic cylinder of a similarly miniature construction. The sensor electronics for signal conditioning and sensor feeding can be installed externally if required. The induSENSOR EDS-28-G-CA-U can be continuously exposed to temperatures up to 165°C, in harsh industrial environments, as well as in pressures up to 375 bar.

The induSENSOR EDS series is proven over many years for measurement displacement at or in hydraulic cylinders and is based on the eddy current principle. The sensor consists of a measurement coil and a coil for temperature compensation, which is installed in a pressure-resistant stainless steel housing. An aluminium sleeve acts as the measurement object, passing over the sensor rod without making contact.

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(PR282_Wegmessung im Hydraulikzylinder induSENSOR)

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