



Compressive Cylinder Load Cell



1. Application

Small dimensions characterize compressive cylinder load cells type 10 1110 even in the high measurement ranges.

Load cells of this type are specially designed for rough industrial use as well as for laboratory applications.

Some areas of application:

- Measuring of press-in forces at mounting lines
- Compression force measurements at toggle lever press
- Weighing technology

2. Description

The cylindrical sensor body is equipped with an axially arranged central throughout hole. This sensor body carries strain gauges which are connected together in a full bridge circuit.

This temperature compensated strain gauge full bridge changes the measurement force directly to a proportional output voltage, which is amplified to a standardized output signal by the corresponding signal amplifiers (see product group 4).

The force introduction at the sensor surface has to be effected plane parallel. The measurement force must be applied centrally and without any transverse vectors.

To achieve optimal accuracy, we recommend to use the load application cup.

Ensure that the sensor is mounted on tools with accurately performed contact surfaces only.

3. Special Features

- Measurement ranges from 0 ... 5 kN up to 0 ...200 kN
- Robust cylindrical construction
- Small dimensions at high measurement ranges
- Standardized output signal
- Accuracy $\leq 0.4\%$ F.S.

10.96

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