Hydraulic Tester PPC Rotational Speed Sensor

Product Description

The PPC-04/12-SDS-CAB rotational speed sensor allows non-contact speed measurement of rotating components. The sensor is based on an opto-electrical measurement principle that determines the rotational speed with high accuracy using a reflecting strip on the shaft The contact rotational speed measurement is obtained by using a contact adaptor that is mounted to the sensor, and which makes contact with the rotating component during measurement. This also produces high-accuracy measurement results. In the case of especially small areas, using the focusing adaptor facilitates measurement.

Specifications

- Material: ABS
- Weight: approx. 230 g (0,5 lbs.)
- 5-pin connection
- Both contacting and non-contacting measurement possible

Note: We wish to point out that using the PPC-04/12-CAB5-EXT extension cable (5 m / 16 ft.) for connecting the rotational speed sensor may result in inaccuracies. We recommend not extending the 2 m (6,5 ft.) permanent cable connection provided on the sensor!

Technical Data

Ambient Conditions

- Ambient temperature: 0°C ... 70°C (32°F ... 158°F)
- Type of measurement: Optical, red LED

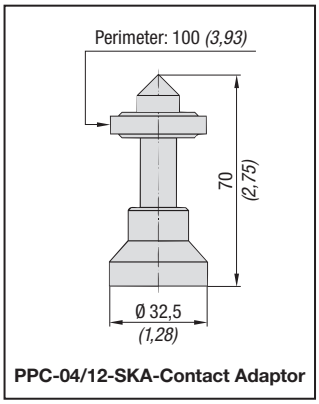
Measuring/Display Range

- Measuring range: 20 ... 10.000 RPM
- Measuring distance: 25 ... 500 (1 ... 20)
- Measuring angle: ± 45°
- Accuracy: < 0,5 % FS*
- Resolution: ± 5 RPM

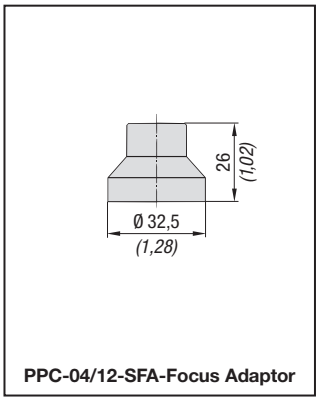
* FS = Full Scale

Electrical Data

- Output signal: 0 V ... 3 V DC

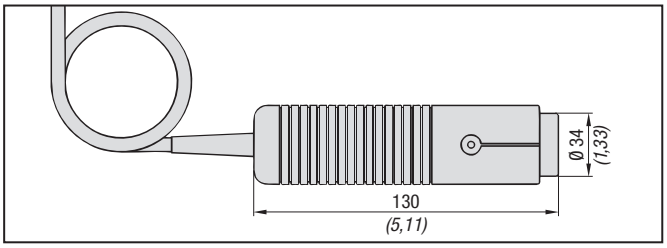


PPC-04/12-SKA-Contact Adaptor



PPC-04/12-SFA-Focus Adaptor

PPC-04/12-SDS-CAB Rotational Speed Sensor



Application Examples

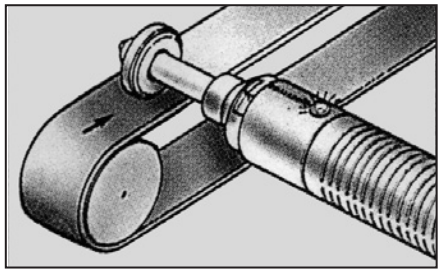


Fig. 1 – Contacting rotational speed measurement with the contact adaptor

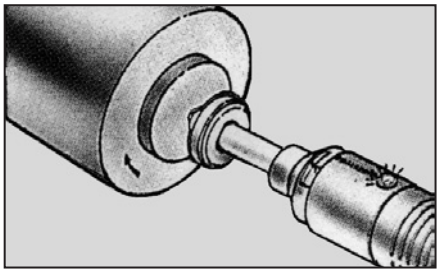


Fig. 2 – End face rotational speed measurement with the contact adaptor

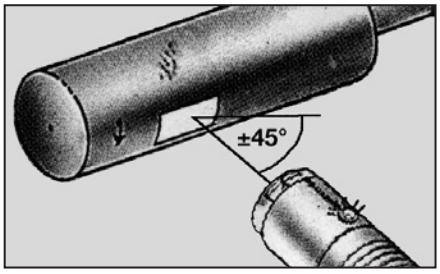


Fig. 3 – Rotating shaft / non-contacting rotational speed measurement using the focusing adaptor and marking strip

All dimensions in mm (inch)