

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

Rotational speed measurement (RPM) is made possible with the use of the PPC-04/12-SDS-CAB non-contact sensor. Speed is measured using a photoelectric cell which counts revolutions via a reflecting strip or marking on the rotating surface resulting in a high level of accuracy. Additionally a contact sensor is available. A mechanical contact adapter is connected to the speed sensor, which is held onto the rotating surface during measurement.

When used with particularly small surfaces, accuracy may be improved by using a special focusing adapter.

Standard cable length is 3m (10 ft) and fixed to the sensor. To achieve best results and correct values this length should not be altered by other extension cables.



### Technical Data Sensor PPC-04/12-SDS-CAB

#### Input

- Measuring range 20...10.000 RPM
- Measuring distance 25...500 mm (1...20 inch)
- Measuring angle  $\pm 45^\circ$
- Measurement optical, red LED

#### Output

- Output signal U=0...3 VDC
- Accuracy <0.5% FS\*
- Resolution  $\pm 5$  RPM

### Electrical Connection

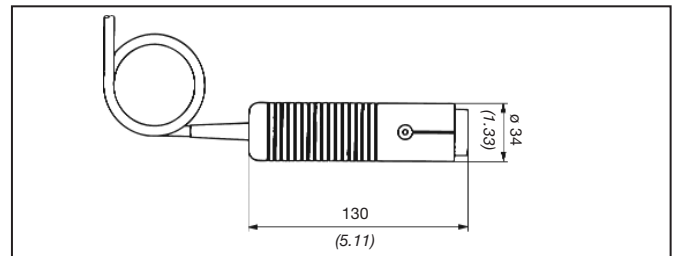
- Cable connected to the sensor length 3 m (10 ft), round plug (extension cable not recommended)

### General

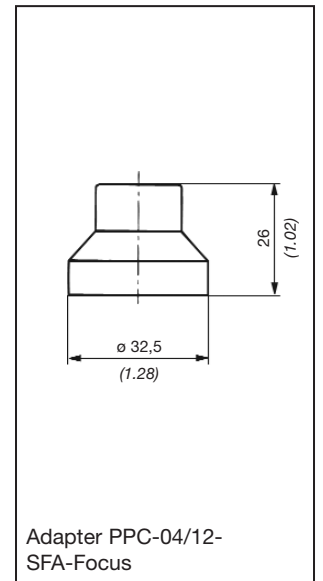
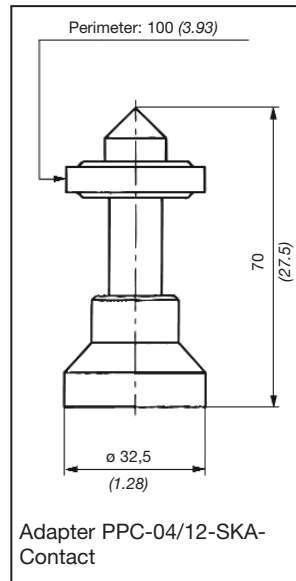
- Material ABS
- Dimension D= $\varnothing$  34 (1.34 inch)  
L=130 (5.1 inch) (without adapter)
- Weight ca. 230 g (0.5 lb.)
- Ambient temperature 0...70°C (32...158°F)

\* FS = Full Scale

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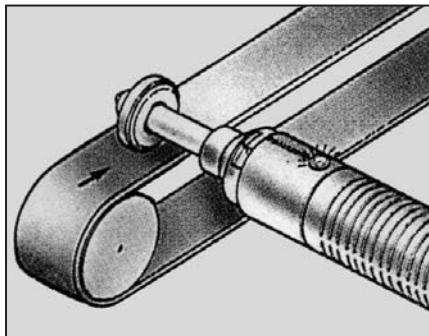


### Accessories

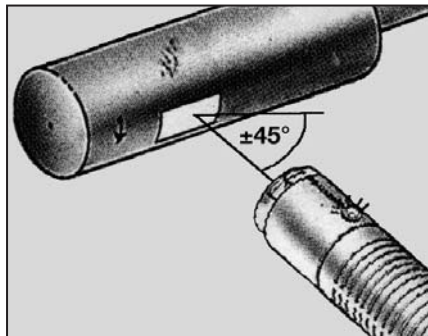


All dimensions in mm (inch)

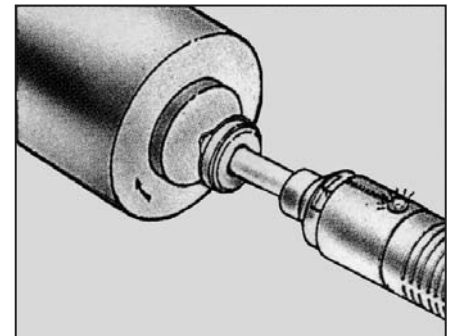
### Applications



App. 1 – RPM with contact adaptor using perimeter



App. 2 – rotating shaft non-contact RPM with reflecting strip



App. 3 – RPM with contact adaptor using point