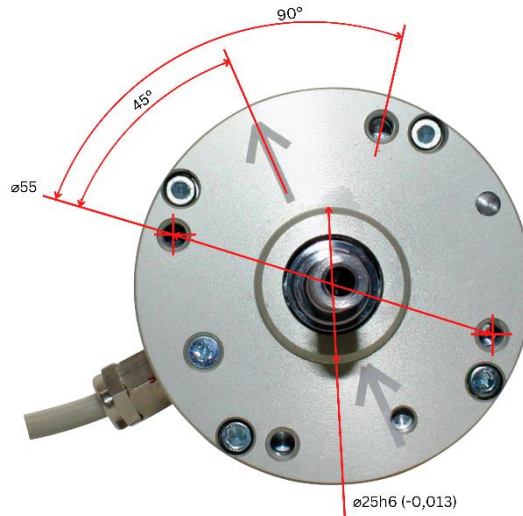
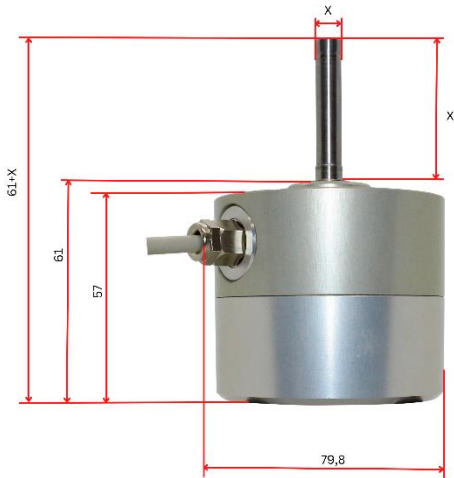


Technical data Radial force transducer

CF - COMP-PRO-M(F)-E

Radialkraft-Messwertaufnehmer
Abmessungen in mm:



The **CF-Comp-Pro-M-(round) or F (with base)** is a radial force transducer with built-in measuring amplifier. It provides an adjustable output signal of 0 to $\pm 10V$ or 4-20mA corresponding to 0 to $\pm 100\%$ of the nominal load. The built-in programmable electronics are set to the desired output signal of the nominal load. The zero point and the calibration can be re-adjusted via an extra cable if required. For exact adjustment of the transducer, the measuring roller must be installed at Tensometric to compensate for the centrifugal force of the measuring roller in a rotary simulator.

To measure the tensile force on the running material, a ball bearing mounted roller is fixed on the bearing axle. This is positioned in the machine so that it deflects the material to be measured at a defined angle. Angles of wrap of the material to be measured around the roller of 3° to 180° are possible. The resulting radial force on the measuring axis is recorded by the transducer and output as an analogue value. When ordering, the nominal load must be selected according to the determined radial force.

Application: Tensile force measurement on / in rotating machines for:
 Optical fibers, wires, cables, ropes, tapes, etc.

Special features:

- Centrifugal force and weight compensated measuring system up to 200G.**
- Smaller design than conventional sensors**
- The dimensions of the bearing axle and the measuring roller can be adapted to suit your requirements.**

Nominal loads: **10N to 300N** (other nominal loads on request)

Electrical connection: Shielded, fixed cable - standard length 3m or 5m, alternative with M12 connector, other length on request. Shield is connected to housing.

Measuring direction: The measuring direction is offset by 90° to the system axis and is possible in both directions. Please indicate the measuring direction when placing the order.

Mounting: 4 screws M5 or M8 either in the housing or at the foot

Measuring range:	1% to approximate.115% of nominal load	Temperature coefficient
max. linearity error:	< $\pm 0,3\%$	of zero-point: < 0,035% / °C
overload protection:	min. 5-fold	of the measuring range: < 0.05% / °C

Operating voltage: 12 V to 30V < 40 mA

Protection class: IP 5X
 Nominal temp. range: + 5°C ... + 55°C
 Weight compensation: up to max. 350g (others on request)

Output voltage: 0 ... $\pm 10V$ or
 output current: 4 ... 20mA or 0-20mA
 zero-point setting range via tare 20% of nominal load

Scope of delivery: transducer, operating instruction

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CF-COMP-PRO-FM-E