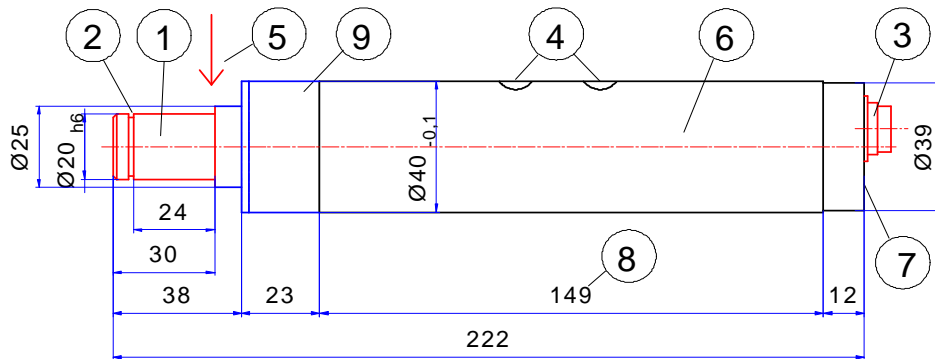


Technical data **Radial Force Sensor M 1391 - C**

Dimensions Radial Force Sensor Series M 1391 - C



- 1 = Shaft (Journal-bearing)
- 2 = Seegerring A 20
- 3 = Male-connector
- 4 = Red marks
- 5 = Loading in meas. direction
- 6 = Housing
- 7 = Potentiometer to adjust the zero + gain
- 8 = Mounting range
- 9 = Sealing

Type M 1391 C is with built-in amplifier.

It supplies an output signal of 0 to +10V, corresponding to 0-100% the nominal load.

To adjust the electrical zero and the gain (calibration), the corresponding potentiometer (7) are accessible from outside.

By ordering this type - the desired service-voltage must be indicated.

Service-voltage and output-signal are galvanic separate.

Application: For tensile force measurement on material which has high forces

Nominal loads: from 200 N up to 5000 N, in steps of 100 N

Overload protection: 4 to 20 times, depending on the nominal load

Protection: IP 61 Option IP 64

Shaft: Standard shaft Ø 20 mm
length and diameter can be adjusted custom-made

Material: Housing and shaft: stainless steel, Sealing: SIMRIT / basis NBR

Electrical connection: 5 - pol. connector

Mounting: fixing in machines by using clamping devices which embrace the cylindrical body or Tensometric clamping devices Z 40 A / Z 40 B

Measuring principle: strain-gage, full-bridge

Measuring range: 1 % to > 115 %

Charact. range of temp.: +5°C ...+60°C

Coef. of temperature

- of the zero: < 0,025% / °C

- of the measuring range: < 0,02 % / °C

Error in measurement: < ± 0,3 %

max. error in line. : < ± 0,2 %

Service voltage: 5 V ± 10% < 90 mA

12 V ± 10% < 70 mA

24 V ± 10% < 25 mA

Adjusting range: ±20% of the nom. load

Adjusting range gain: ±20% of the nom. load

Output signal: 0 ... ± 10 V

Output current: 2 mA

Option: output current: 4 - 20 mA

Volume of delivery: Sensor without measuring roller, with standard shaft, 5-pol. connector
Instruction manual with calculation tabular

Accessories available: Connection cable, amplifier with or without display
measuring roller, clamping device Z 40-A or Z 40 B