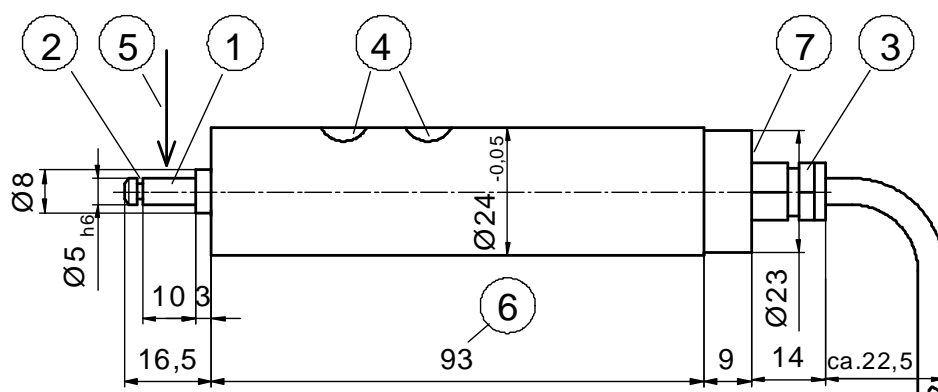


Technical data **Radial Force Sensor M 1392**
Dimensions Radial Force Sensor Series M 1392:


- 1 = Shaft (Journal bearing)
 2 = Seegerring A5
 3 = Cable
 4 = Red Marks
 5 = Load in measuring direction
 6 = Mounting range
 7 = Potentiometer for
 adjusting ZERO + CAL

Type M 1392 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. (not with $\pm 15\text{ V}$!)

Connection- cable is fixed, 3 m long. Shield of the connection cable is connected to the housing.

Application: Tensile force measurement on thin and flexible material

Nominal loads: 1 N, 2 N, 3 N, 4 N, 5 N, 6 N, 10 N, 20 N, or 30 N others upon request

Overload protection: > 10 times the nominal load

Protection: IP 50

Journal- bearing (shaft): standard $\text{Ø} 5\text{ mm}$, fixing the measuring roller by means of a Seegerring
 other shafts or roller-fixing upon request

Material: (tube) housing : stainless steel shaft : aluminium alloy

Electrical connection: shielded, fixed cable - standard length 3 m
 upon request : 5 m. Shield is connected to the housing.

Mounting: Mounting into a hole $\text{Ø} 24\text{ mm}$, locking by means of screw-pressure on the tube
 Mounting into a chucking tool $\text{Ø} 24\text{ mm}$.
 Mounting by using Tensometric clamping device Z 1190 or Z 1391

Measuring principle: strain-gage, full-bridge

Measuring range: 1 % up to min. 120 %

Charact. range of temp.: $+5^\circ\text{C} \dots +60^\circ\text{C}$

Coef. of temperature

- of the zero: $< 0,025\% / ^\circ\text{C}$

- of the measuring range: $< 0,02\% / ^\circ\text{C}$

Error in measurement: $< \pm 0,3\%$

max. error in line.: $< \pm 0,2\%$

Service voltage: 5 V $\pm 10\%$ < 90 mA

12 V $\pm 10\%$ < 70 mA

24 V $\pm 10\%$ < 25 mA

Option: $\pm 15\text{ V} \pm 10\%$ +20/ -5 mA

Adjusting range zero: $\pm 20\%$ of the nom. load

Adjusting range gain: $\pm 20\%$ of the nom. load

Output signal: 0 ... $\pm 10\text{ V}$

Output current max.: 2 mA

Volume of delivery: Sensor without measuring roller, fixed connection cable
 Instruction manual with calculation tabular

Accessories available Connection cable, amplifier with or without display
 measuring roller, clamping device Z 1190 or Z 1391