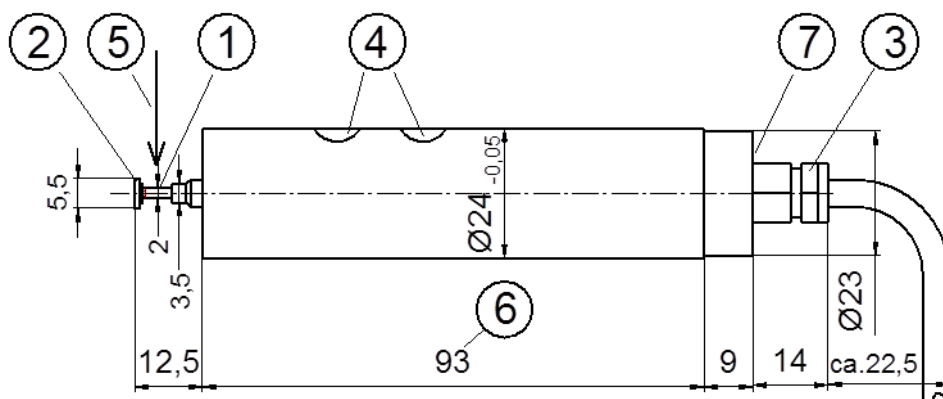


Technical data *Radial Force Sensor M 1392-L*
Dimensions Radial Force Sensor Series M 1392-L:


- 1 = Shaft (Journal bearing)
 2 = Screw nut M2
 3 = Cable
 4 = Red Marks
 5 = Load in measuring direction
 6 = Mounting range
 7 = Potentiometer for adjusting ZERO + CAL

Type M 1392-L 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 ± 15 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: 20 cN 30 cN 50 cN, 1 N 2 N or 3 N others upon request

Overload protection: > 10 times the nominal load

Protection: IP 50

Journal- bearing (shaft): standard \varnothing 2 mm, fixing the measuring roller by means of a Screw nut M2
 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 \varnothing 24 mm, locking by means of screw-pressure on the tube
 Mounting into a chucking tool \varnothing 24 mm.
 Mounting by using Tensometric clamping device Z 1191 or Z 1391

Measuring principle: strain-gage, full-bridge

Measuring range: 1 % up to min. 120 %

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: < \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 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 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 1191 or Z 1391