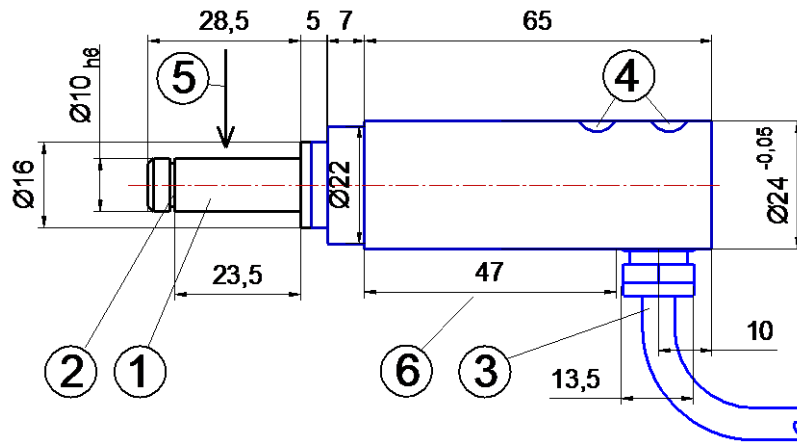


Technical data *Radial Force Sensor M 1191- KAS*

Dimensions Radial Force Sensor Series M 1191- KAS:



- 1 = Shaft (Journal-bearing)
- 2 = Seegerring A 10
- 3 = Cable
- 4 = Red mark
- 5 = Load in measuring direction
- 6 = Mounting range

Type M 1191 KAS is a radial force sensor without amplifier.
For transformation the low measuring-voltage into a norm-signal, it needs an external amplifier.

Therefor Tensometric amplifier are suited: KMV 10, MV 10 (without display)
SA DMS 610, SA DMS 310 (with display)

Application: Tensile force measurement on material which is flexible

Nominal loads: **30 N, 40 N, 50 N, 60 N, 100 N, 200 N, or 300 N** others upon request
Overload-protection: **> 10 times the nominal load**

Protection: IP 50 Option IP 52 or IP 64
Independent of the nominal load of the sensor, sealing for IP 52 or IP 64 can cause an additional error of 0,2 N.

Journal- bearing (shaft): standard Ø 10 mm, fixing the measuring roller by means of a Seegerring other shafts or roller-fixing upon request

Material: (tube) housing and shaft: stainless steel
Protection IP 52 or IP64: Sealing material: Silicon, SL 601

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

Mounting: Mounting into a hole Ø 24 mm, locking by means of screw-pressure on the tube
Mounting by using Tensometric clamping device Z 1391

| | | | |
|------------------------------|---------------------------|-----------------------------|---------------|
| <i>Measuring principle:</i> | strain- gage, full-bridge | <i>max. error in line.:</i> | < ± 0,2 % |
| <i>Measuring range:</i> | 1 % up to 120% | <i>Coef. of temp.:</i> | < ± 0,02% /°C |
| <i>Error in measurement:</i> | < ± 0,3% | <i>Resistance input:</i> | 350 Ohm |

| | | | |
|----------------------------------|-----------------|------------------------------|---------|
| <i>Charact. value:</i> | 1,5 mV / V | <i>Resistance output:</i> | 350 Ohm |
| <i>Charact. value tolerance:</i> | < ± 0,2 % | <i>Reference- voltage:</i> | 10 V |
| <i>Charact. range of temp.:</i> | + 5°C ...+ 60°C | <i>Max. service voltage:</i> | 10 V |

Series :
Type M 1191 KAS: Realization the measured data via strain-gages, electrical connection via 3 m connection cable

Volume of delivery: Sensor without measuring roller, fixed cable 3 m long, Instruction manual with calculation tabular

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