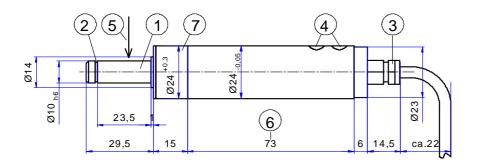


Technical data

Radial Force Sensor M 1191 KA

Dimensions Radial Force Sensor Series M 1191 KA:



1 = Shaft (Journal-bearing)

2 = Seegerring A 10

3 = Cable

4 = Red mark

5 = Load in measuring direction

6 = Mounting range

7 = Sealing

Type M 1191 KA 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

30 N, 40 N, 50 N, 60 N, 100 N, 200 N, 300 N others upon request Nominal loads:

> 10 times the nominal load Overload-protection:

IP 61 Protection: Option IP 64

Independent of the nominal load of the sensor, sealing for IP 61 and IP 64 can cause an additional error of 0,2 N. To obtain the highest possible accuracy, customer can remove sealing

IP 61 by themselves, without problem. In this manner protection reduces to IP 50.

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 Sealing material: Silicon, SL 601

Electrical connection: M 1191 5-pol. connector

> shielded, fixed cable - standard length 3 m. upon request: 5 m. M 1191 KA

Shield is connected to the housing.

Mounting: Mounting into a hole \varnothing 24 mm, locking by means of screw-pressure on the tube

Mounting by using Tensometric clamping device Z 1391

Measuring principle: strain- gage, full- bridge max. error in line. : $< \pm 0.2 \%$ Measuring range: 1 % up to 120% Coef. of temp.: < ± 0.02% /℃

Error in measurement: $< \pm 0.3\%$ Resistance input: 350 Ohm

Charact. Value: 1.5 mV / V Resistance output: 350 Ohm Charact, value tolerance: < ± 0.2 % Reference- voltage: 10 V Charact. range of temp:. + 5℃ ...+ 60℃ Max. service voltage: 10 V

Series:

Type M 1191: Realization the measured data via strain-gages, electrical connection via 5-pol. connector Type M 1191 KA: Realization the measured data via strain-gages, electrical connection via 3 m connection cable

Type M 1391: with built-in amplifier. Technical data please see separate data sheet

Volume of delivery: M 1191 Sensor without measuring roller, 5-pol. connector

Instruction manual with calculation tabular

Sensor without measuring roller, fixed cable 3 m long M 1191 KA

Instruction manual with calculation tabular

Accessories available: Connection cable, amplifier with or without display

measuring roller, clamping device Z 1191 or Z 1391

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