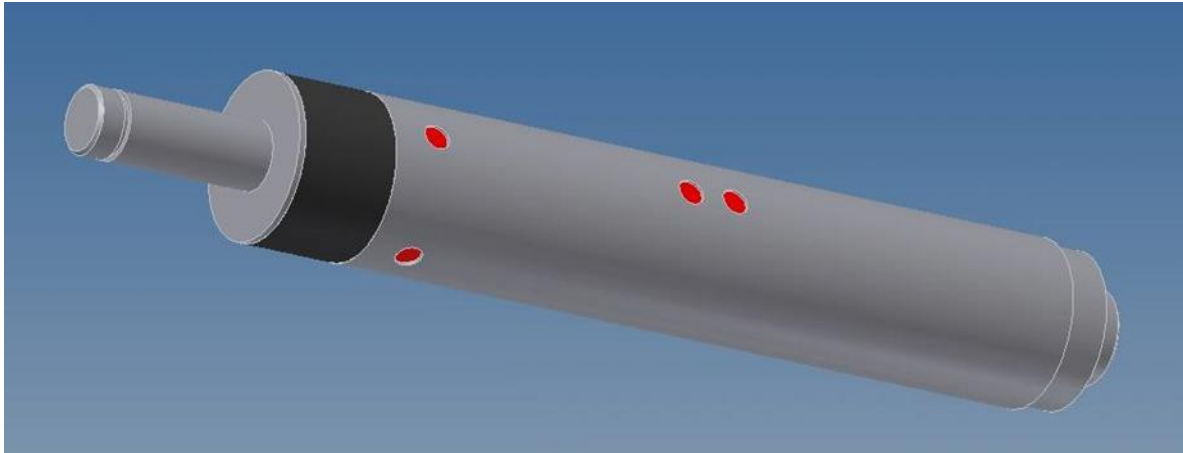


Technical data	Radial Force Sensor M 1191 XY
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Dimensions Radial Force Sensor Series M 1191 XY:

Type M1191 XY is a radial force sensor with strain gage full-bridge, for the measurement of forces from two 90 ° direction offsets without amplifier.

To transform the low measuring-voltage into a normal signal, it needs an external amplifier.

Therefore Tensometric amplifier are suited: 2KMV 10, MV 110 (without display)
 SA 2xDMS 610 (with display)

Application: Tensile force measurement on X and Y direction

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

Overload-protection: **> 4 to 8 times of nominal load**

Protection: **IP 52, Option IP 64**
 Independent of the nominal load of the sensor, sealing for IP 52 and IP 64 can cause an additional error of 0,2 N. To obtain the highest possible accuracy, customer can remove sealing IP 52 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 locking ring
 other shafts or roller-fixing upon request

Material: (tube) housing and shaft : stainless steel Sealing material: Silicon, SL 601

Electrical connection: 7-pol. connector

Mounting: Mounting into a drill hole Ø 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 115%	Coef. of temp.:	$< \pm 0,02\% / ^\circ\text{C}$
Error in measurement:	$< \pm 0,5\%$	Resistance input:	350 Ohm

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

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

