

## Tensile Force Sensor Serie M 1120



Series M 1120 is a compact sensor for measuring tensile forces on running material. Its special merits are high measuring accuracy and high long-time stability.

By means of the two guide-rollers, the material - which is measured is guided in a defined angle around the measuring-roller. The, at the measuring-roller resulting radial-forces, are measured by the sensor. The radial-force is proportional to the tensile force in the material which is measured.

Application	tensile force measurement on : fibres, threads, opt. fibres, wires, tapes etc. as well for on-line intallation as for labs
Characteristics	realisation the measured data is independent of the width of the used roller
Nominal loads	2 N, 5 N, 10 N, 20 N, 30 N
Measuring range	1 % up to 115% of the nominal load
Measuring principle	strain-gage, full-bridge the sensor transforms the - on the measuring-roller- active radial force into a proportional electric signal
Rollers	extreme smooth running, double-ball-bearing mounted rollers
Roller-material	Aluminium-alloy: AIMgCuPb Option: ceramic-coated roller-groove
Material-speed	up to 2400 m/min
Accessories availbale	connection-cable, amplifier with or without indication custom-made rollers

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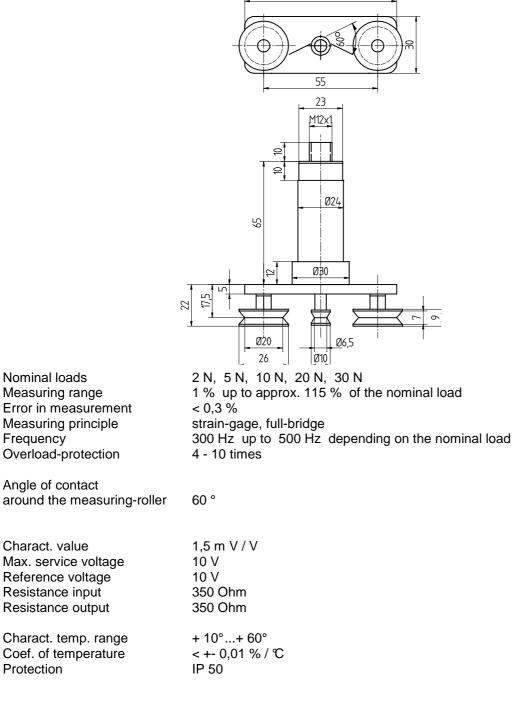
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## Technical Data:

## **Tensile Force Sensor Series M 1120**

Dimensions :



Volume of delivery

Sensor incl. 5 pol. connector, Instruction-manual

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