

Force Transducer SZ-62-5-1.04

article-no.: VX34020370
serial-no.: key 091



description

The force transducer SZ-62 serves for the taking of axial pressure strengths. The robust form makes a universal use possible under rough conditions in the industry.

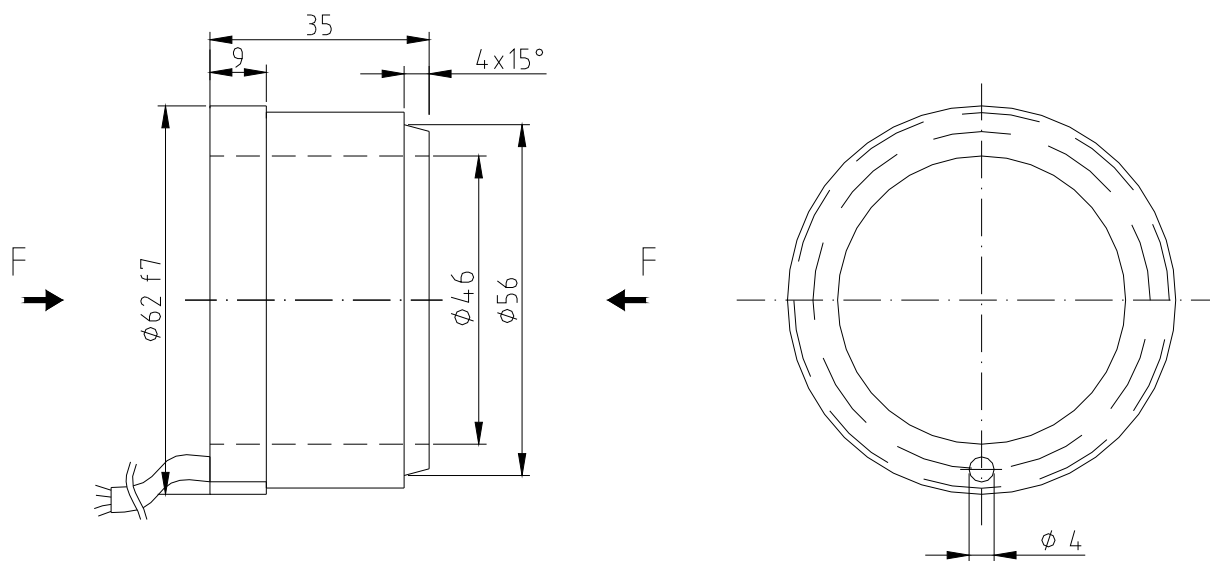
Use is carried out for including of static and dynamic strengths in axial direction to springs, screw connections, presses etc.

It works according to the compressing cylinder principle. With him weight strengths, one pressing strengths and friction strengths can be measured. The strength introduction is alone carried out via compressing tube foot and end wall. The force transducer can get prestressed like a washer.

The application room for the stretching measuring stripe (strain gauge) is offered protection against chemical and mechanical charges with one of a very elastic mass.

The strain gauge full bridges measure this one for appeared deformations for the cylinder by the compression.

specification



mechanical execution

weight	approx. 750 g
dimension	ground plate Ø 62 mm, force introduction Ø 46 mm
material	X35CrMo17 1.4122
environmental protection	IP 65

SZ

62-5

nominal force	5.000 N
max. use force	150 % of the nominal force
rupture force	400 % of the nominal force

electrical execution

operating voltage U_{sv}	5 - 12 V DC
strap input / output	350 Ω / 350 Ω
sensitivity	approx. 1,5 mV / V (exactly details on type label or banderole of the cable)
suitable for calibration in	use with VMV-0025.07
calibration tolerance	N
nonlinearity	< 0,50 % of the final value*
hysteresis	< 0,25 % of the final value*
temperature coeff.	< 0,15 % of the final value*
zp.	$\leq 0,04$ % of the final value / K
rec.	$\leq 0,04$ % of the set point / K
operating condition	-25°C to +80 °C**

connection

electrical connections	25 mm LiYCY 4 x 0,14 mm ²
	brown operating voltage U_s +
	green operating voltage U_s -
	yellow measuring signal output U_D +
	white measuring signal output U_D -
	blue protection

* These details are depending on the fit, the resistance moment and the installation length. They are reached with favorable values.

** in case the laid cable is fixed