Force Transducer KWZ-70-10t-4.50



article-no: VX34020443 serial-no: key 20R



description

The plate load cell works according to the principle of the strength measuring in the direction of the longitudinal axis.

Greater pulling forces can be included at lifts, cranes, gondolas and also bracings at masts, towers, platforms etc.

The plate load cell KWZ-70 is executed as a double traction element. It has got a drilling with 26 mm of diameters on both sides for a simple assembly with bolts or similar.

Simply putting in at load hooks, trolleys, eyes, chain-links or other stop means is possible about this one as accessories available clevis.

The application room for the strain gauge is locked and sealed up with plates and therefore protected from mechanical and chemical damages.

Strain gauges full bridges measure the deformation caused by shear forces on the bolt in the measuring chamber. An integrated amplifier delivers the measuring signal of 4 – 20 mA.

In the unloaded state the nominal output current can be produced by applying the calibration check signal (software calibration). This enables a check of the force transducer, amplifier and the following measuring device.

The KWZ-70 is provided for the direct coupling to an automatic control or a controlling swith.

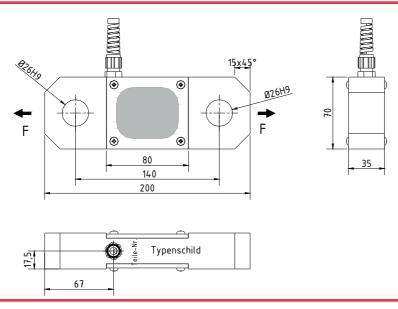
The shield of the cable is not connected with the force transducer.

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TÜV NORD
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GmbH

FM ISO 900
Innunce Zertungen

specification



mechanical execution

diameter, force transmission and mounting see assembly drawing

weight approx. 3 kg material stainless steel

degree of protection **IP 67**

KWZ 70-10t 10.000 kg nominal force / nominal load

max. overload range / force limit 150 % of nominal force breaking force 500 % of nominal force

electrical execution

measuring signal (output) 4 - 20 mA operating voltage 24 V DC ±35 % current consumption max. 50 mA

calibration tolerance < 0,50 % of final value* non-linearity < 0,25 % of final value* hysteresis < 0,15 % of final value*

temperature coefficient:

of zero signal ≤ 0,04 % of final value / K of the sensitivity \leq 0,04 % of set point / K

insulation resistance $> 5.000 M\Omega$ nominal temperature range -15 °C to +70 °C operating temperature range -25 °C to +80 °C

cable and connection

1,0 m FD CP 4 x 0,14 mm² cable length / cable type

cable end wire-end-sleeve

operating voltage UB wiring connections brown ground / earth GND green

measuring signal output Im yellow

calibration signal (low activ) CC*** white

shielding (only in the case of a shielded cable) blue

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

only for the case that the cable is laid with fastening
This cable should be connected at the operating voltage unless the calibration signal is used. (only applicable to executions with amplifier)