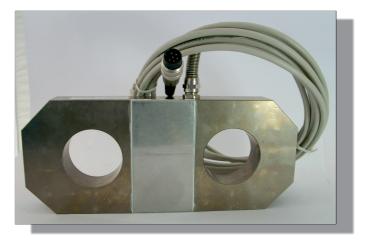
## Force Transducer KWZ-100-16t-1.10



article-no: VX34021121 serial-no: key 43G



## description

The tensile force transducer KWZ-100 measures the force along the longitudinal axis.

Tensile forces can be measured at lifts, cranes, gondola as well as tensions in mast, towers and platforms amongst others.

The tensile force transducer KWZ-100 is designed as a double tie. It has a 50,6 mm diameter borehole on both sides for easy installation with bolts or the like. Using shackles, which are available accessories, the transducer can simply be clipped into load hooks, travellers, eyes, chain links and other slinging means.

The application chamber for the strain gauge is closed with plates and sealed for protection against mechanical and chemical damage.

Strain gauge full bridges measure the deformation in the measurement chamber due to the tensile forces acting on the transducer. An integrated amplifier delivers the measuring signal of 1 to 9 mA.

The shield of the cable is connected with the force transducer.

The KWZ-100 is provided for the direct coupling to a control system or a comparator switch.



KWZ-100VX34021121.cdr

| specification  |   |
|--|---|
| $F_{\frac{1}{59}}$   |   |
| mechanical execution   |   |
| diameter, force transmission and mounting see assembly drawing   |   |
| weight<br>material<br>degree of protection   | approx. 3,8 kg<br>stainless steel<br>IP 67  |
| <u>KWZ</u><br>nominal force / nominal load<br>max. overload range / force limit<br>breaking force  | <u>100-16t</u><br>16000 kg<br>175 % of nominal force<br>350 % of nominal force  |
| electrical execution   |   |
| measuring signal (output)<br>operating voltage<br>current consumption<br>calibration tolerance<br>non-linearity<br>hysteresis<br>temperature coefficient:<br>of zero signal<br>of the sensitivity<br>insulation resistance<br>nominal temperature range<br>operating temperature range | 1 - 9 mA<br>12 - 24 V DC ±20 %<br>max. 35 mA<br>< 0,50 % of final value*<br>< 0,25 % of final value*<br>< 0,15 % of final value / K<br>< 0,04 % of final value / K<br>< 0,04 % of set point / K<br>> 5.000 MΩ<br>-15 °C to +70 °C<br>-25 °C to +80 °C** |
| cable and connection   |   |
| cable length / cable type<br>cable end<br>pin assignment   | 5 m LiYCY 4 x 0,25 mm²6-pole connector (series 680)PIN 1PIN 2/6not connectedPIN 3ground / earth GNDPIN 4calibration signal (low activ) CC***PIN 5operating voltage UBhousingshielding (only in the case of metall casing and a shielded cable)          |

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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 (depending on cable type) This cable should be connected at the operating voltage unless the calibration signal is used. (only applicable to executions with amplifier)