Force Transducer ZKA-24-3t-1.50



article-no: VX34021205 serial-no: key 46C



description

The force transducer works according to the principle of the strength measuring in the direction of the longitudinal axis.

Tractive forces can be included among others at lifts, cranes, gondolas as well as at braced of masts, towers, platforms etc.

The force transducer ZKA-24 is listed as a thread stick (on both sides M24). This permits a simple and universal fastening. About clevis is fastening possible.

The application room for the strain gauge is protected by an aluminium tube, which is spilled with a highly elastic mass from mechanical and chemical damages.

The strain gauge bridges measuring the length change and crossways stretching (vertical and horizontal expansion) caused by pulling forces on the force transducer. An integrated amplifier provides a measuring signal of 4 - 20 mA.

The ZKA-24 is assigned for the direct coupling to an automatic control or a controlling switch.

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



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technical changes and errors excepted

ZKA-24VX34021205.cdr

specification	
$F \xrightarrow{170}{160}$	
mechanical execution	
diameter, force transmission and mounting see assembly drawing	
weight material degree of protection	approx. 0,78 kg rod = stainless steel / case = aluminium IP 67
ZKA nominal force / nominal load max. overload range / force limit breaking force	24-3t 3000 kg 150 % of nominal force 400 % of nominal force
electrical execution	
measuring signal (output) operating voltage current consumption calibration tolerance non-linearity hysteresis temperature coefficient: of zero signal of the sensitivity insulation resistance nominal temperature range operating temperature range	4 - 20 mA 12 - 24 V DC ±20 % max. 45 mA < 0,50 % of final value* < 0,25 % of final value* < 0,15 % of final value / K < 0,04 % of set point / K > 5.000 MΩ -15 °C to +70 °C -25 °C to +80 °C
cable and connection	
cable length / cable type cable end wiring connections	5 m SABIX D 315 FRNC 4x0,25 mm ² wire-end-sleeve brown operating voltage UB green ground / earth GND yellow measuring signal output Im white calibration signal (low activ) CC*** blue shielding (only in the case of a shielded cable)
 * These details are depending on the fit, the resistance ** only for the case that the cable is laid with fastening (contract) 	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)