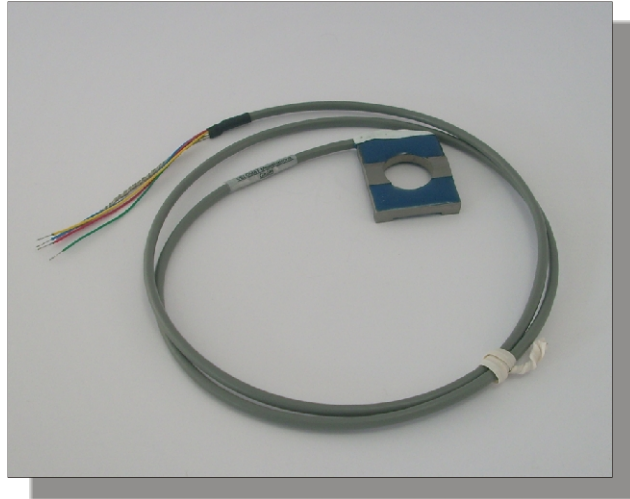


Force Transducer BKA-34-1-2.00



article-no: VX34021033
serial-no: key 8L



description

The force transducer BKA-34 is intended for the axial load introduction.

The use spectrum is for static and dynamic strengths at elevators, shafts, axes, screwing connections, springs and for weighing tasks.

The special qualities are justified in the uncomplicated form, the low building height and the relatively high insensitivity opposite eccentric strength introduction.

The application room is protected by a synthetic material covering depth against chemical and mechanical stress with a high elastic mass.

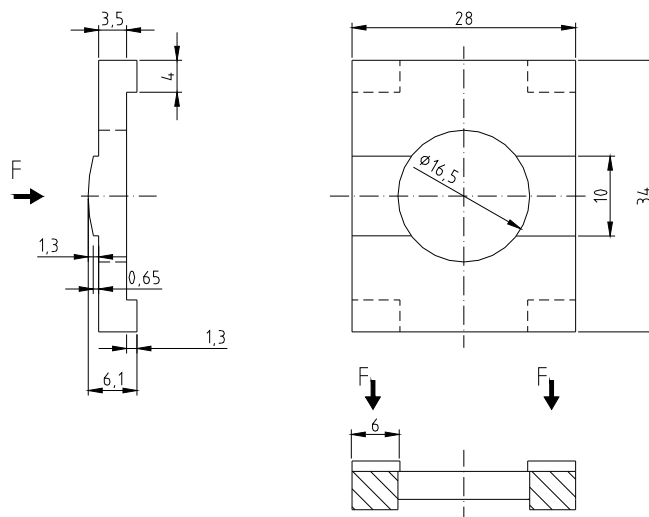
The strain gauges full bridge measured the bending of the measuring cell.

The BKA-34 is planned for the connection with an amplifier which strengthens the measuring signal on an electric size specific for user.

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



specification



mechanical execution

diameter, force transmission and mounting see assembly drawing

weight approx. 0,04 kg
 material stainless steel
 degree of protection IP 67

BA **34-0,1t**
 nominal force / nominal load 100 kg
 max. overload range / force limit 150 % of nominal force
 breaking force 400 % of nominal force

electrical execution

measuring principle wheatstone full bridge of strain gauges
 input / output resistance 350 Ω / 350 Ω
 nominal sensitivity approx. 1,3 mV / V (accurate value: see type label / banderole)
 excitation voltage max. 12 V AC / DC
 current consumption max. 35 mA
 calibration tolerance < 3 % of final value*
 non-linearity < 1 % of final value*
 hysteresis < 1 % of final value*
 insulation resistance > 5.000 M Ω
 nominal temperature range -15 °C to +70 °C
 operating temperature range -25 °C to +80 °C**

cable and connection

cable length / cable type 0,8 m LiYCY 4 x 0,55 mm²
 cable end tinned
 wiring connections
 red excitation voltage Us+ / B+
 green excitation voltage Us- / B-
 yellow signal Ud+ / S+
 blue signal Ud- / S-
 transparent shielding (only in the case of a shielded cable)

* 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)