Strain Link Transducer DKA-30-20-1.00



article-no.: VX34020338 serial-no.: key 070



description

The strain link transducer DKA-30 serves for the grabbing of axial pressure strengths.

Use is carried out for including static and dynamic strengths to springs, platforms, press etc.

The robust form makes a universal use possible under rough conditions in the industry.

The DKA-30 works according to the compressing cylinder principle. The force introduction is alone carried out via the foot plate and the warped end wall.

The application room for the strain gauge (dms) is spilled with a very elastic mass and therefore protected from mechanical and chemical damages.

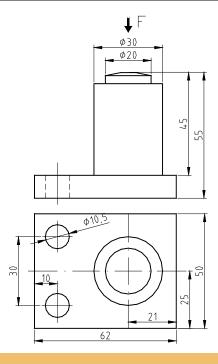
A strain gauge-full bridge includes the deformation of the bolt which arises from pressing together.

The strap balance is on coordinated approx. ±0,01 mV / V in the unloaded state.

The DKA-30 is provided for the connection to an amplifier.



specification



mechanical execution

weight approx. 750 g

dimension base plate 62 mm x 50 mm, diameter 30 mm

material steel environmental protection IP 67

DKA 30-20 nominal force 20 kN

max. use force150 % of the nominal forcerupture force500 % of the nominal force

electrical execution

 $\begin{array}{ll} \text{measuring principle} & \text{full bridge} \\ \text{input resistance} & 350 \ \Omega \\ \text{output resistance} & 350 \ \Omega \\ \end{array}$

sensitivity approx. 1,2 mV / V (see corresponding details on type label)

operating voltage max. 12 V AC / DC current consumption max. 35 mA

calibration tolerance< 0,50 % of the final value*</th>nonlinearity< 0,50 % of the final value*</th>hysteresis< 0,20 % of the final value*</th>temperature coeff.

zp. \leq 0,04 % of the final value / K **rec.** \leq 0,04 % of the set point / K

 $\begin{array}{ll} \mbox{insulation resistance} & > 5.000 \ \mbox{M}\Omega \\ \mbox{operating condition} & -25 \ \mbox{°C to } +80 \ \mbox{°C**} \end{array}$

connection

cabel type LiYCY 4 x 0,14 mm² 1,5 m

cable end wire-end-sleeve

electrical connections brown strap voltage U_s +

green strap voltage U_syellow strap signal U_p+
white strap signal U_pblue 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