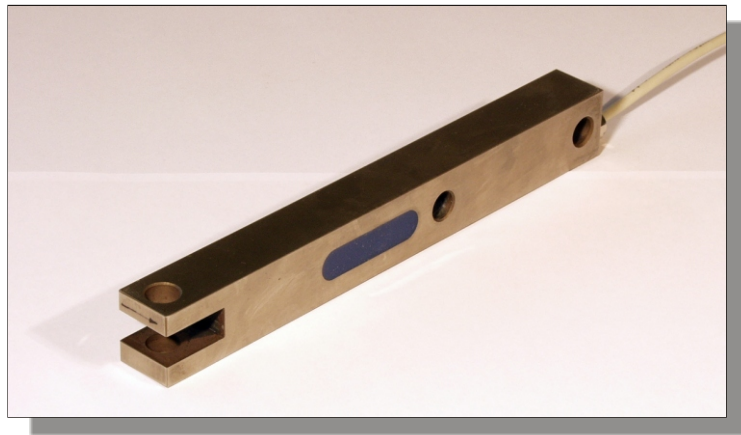


Force Transducer SKA-24-0,4t-1.00

article-no.: VX34020199

serial-no.: key 26A



description

The force transducer works according to the bending force measurement principles.

The SKA-24 is designed for application at conveyor scales, bin-type weighing devices, platform scales and overhead conveyor scales, but can also be used for measuring the powers applied on machine parts, levers, axles etc.

The device has been designed as a bending beam with two measuring cells. Due to the beam shape and two 11 mm size boreholes, all machine building requirements will be met when mounting this component.

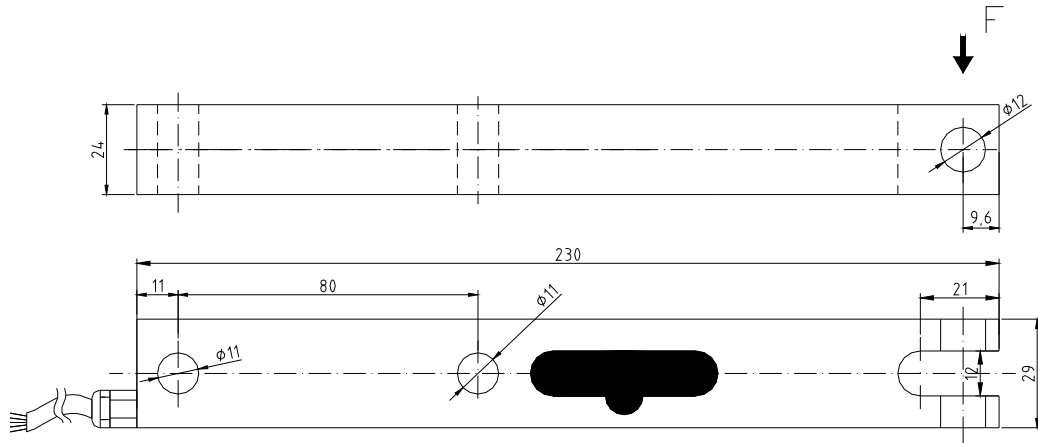
The force transfer is carried through by use of a borehole \varnothing 12 mm (forked introduction).

The measuring cell for the strain gauge has been cast with a high-elastic compound and is thus protected against mechanical or chemical damages.

The strain gauge bridges measure the caused deformation in the measuring cell due to the bending powers at the beam. The strap balance is 1,5 mV / V.

The SKA-24 is assigned for the coupling to an amplifier.

specification



mechanical execution

weight	approx. 1 kg
mounting	2 x boreholes \varnothing 11 mm, 1 x borehole \varnothing 12 mm
material	steel
environmental protection	IP 67

SKA	24-0,4t
nominal force	400 kg
max. use force	150 % of the nominal force
rupture force	200 % of the nominal force

electrical execution

measuring principle	strain gauge strap
input and output resistance	350 Ω
sensitiveness	approx. 1,4 mV / V
operating voltage	max. 12 V AC / DC
current consumption	max. 35 mA
calibration tolerance	< 0,50 % of the final value*
nonlinearity	< 0,25 % of the final value*
hysteresis	< 0,15 % of the final value*
temperature coeff.	
zp.	\leq 0,04 % of the final value / K
rec.	\leq 0,04 % of the set point / K
insulation resistance	> 5.000 M Ω
operating conditions	0 °C to +50 °C
limit temperature	-20 °C to +80 °C**
reference temperature	+20 °C

connection

cable type	LIYCY 4 x 0,14 mm ²										
cable length	2 m										
cable end	tinned										
electrical connections	<table> <tr> <td>brown</td> <td>strap voltage US+</td> </tr> <tr> <td>yellow</td> <td>strap voltage US-</td> </tr> <tr> <td>green</td> <td>measuring signal output UD+</td> </tr> <tr> <td>white</td> <td>measuring signal output UD-</td> </tr> <tr> <td>blue</td> <td>protection</td> </tr> </table>	brown	strap voltage US+	yellow	strap voltage US-	green	measuring signal output UD+	white	measuring signal output UD-	blue	protection
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white	measuring signal output UD-										
blue	protection										

* This details are contingent from fit, resistance moment and clamp in length. They are reached at favorable values.

** at celebration laid cable