

# Strain Link Transducer DKA-25-4-1.00

article-no.: VX34020515  
serial-no.: key 23J



## description

The DKA-25 is a robust, screw-on strain link transducer. It is suitable for the stretching and strength measuring at machine elements and components by its closed form and execution .

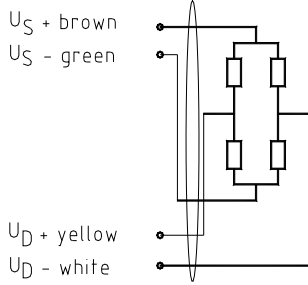
The installation is carried out in a simple way merely by screwing on the sensor with four screws M6 on a flat material surface. Escapes to a sticking directly and comparisons of strain gauges.

The device can be used for monitoring forces and recording the extension of building components predominantly made of steel and aluminium, to name just a few fields application.

The signal, the temperature behavior and the transmission ratio are based on the principle applied and depend on how both the geometry and the material of the sensor and the component are mated.

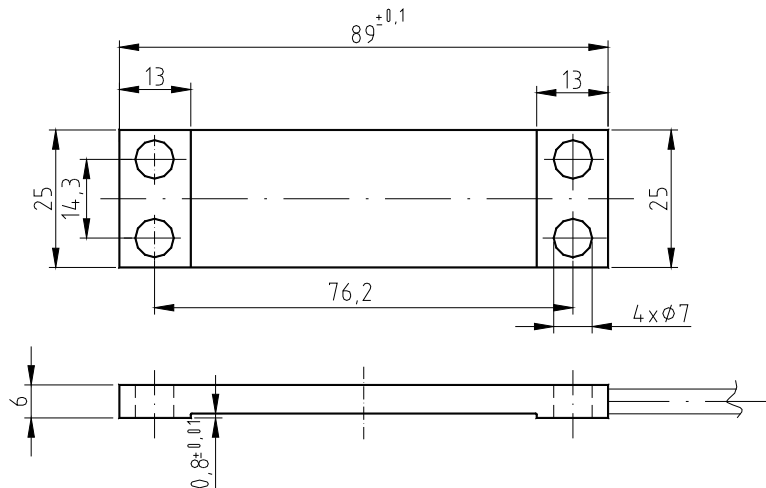
Ideally, the sensor will therefore be calibrated best by applying a know force to the component concerned under the ambient conditions that are typical of the measurement.

## specification



$U_S$ : strap voltage

$U_D$ : strap output



### mechanical execution

<b>sensor</b>	tension / compression
<b>structural design</b>	closed
<b>length x width x height</b>	89 mm x 25 mm x 6 mm
<b>mounting</b>	4 x $\varnothing$ 7 mm
<b>material</b>	Ck45 1.1191 galvanic nickel-plated
<b>environmental protection</b>	IP 67

### electrical execution

<b>nominal measuring range</b>	$\pm 400 \mu\text{m} / \text{m}$
<b>maximal deformation</b>	$\pm 500 \mu\text{m} / \text{m}$
<b>max. use tension</b>	125 %
<b>beginning of the plastic deformation</b>	300 %
<b>input resistance</b>	1.000 $\Omega$
<b>output resistance</b>	1.000 $\Omega$
<b>insulation resistance</b>	> 5.000 M $\Omega$
<b>operating voltage</b>	max. 15 V AC / DC
<b>operating temperature</b>	-25 °C to +80 °C

### connection

<b>cable type</b>	Unitronic-FD CP 4 x 0,14 mm <sup>2</sup>										
<b>cable length</b>	2 m										
<b>cable end</b>	wire-end-sleeve										
<b>electrical connection</b>	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">brown</td> <td>strap voltage <math>U_S+</math></td> </tr> <tr> <td>green</td> <td>strap voltage <math>U_S-</math></td> </tr> <tr> <td>yellow</td> <td>strap output <math>U_D+</math></td> </tr> <tr> <td>white</td> <td>strap output <math>U_D-</math></td> </tr> <tr> <td>blue</td> <td>protection</td> </tr> </table>	brown	strap voltage $U_S+$	green	strap voltage $U_S-$	yellow	strap output $U_D+$	white	strap output $U_D-$	blue	protection
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