

## Product Description

# Web Tension Sensor BZV-A / BZH-A

## Special Features

- Nominal forces from 0,1 up to 1 kN
- Horizontal or vertical measuring direction
- Cost effective compact design
- Combined error 0,5 %
- Manufactured from high-strength aluminium

## Scope of Supply

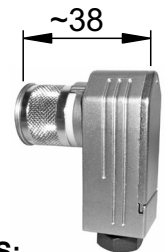
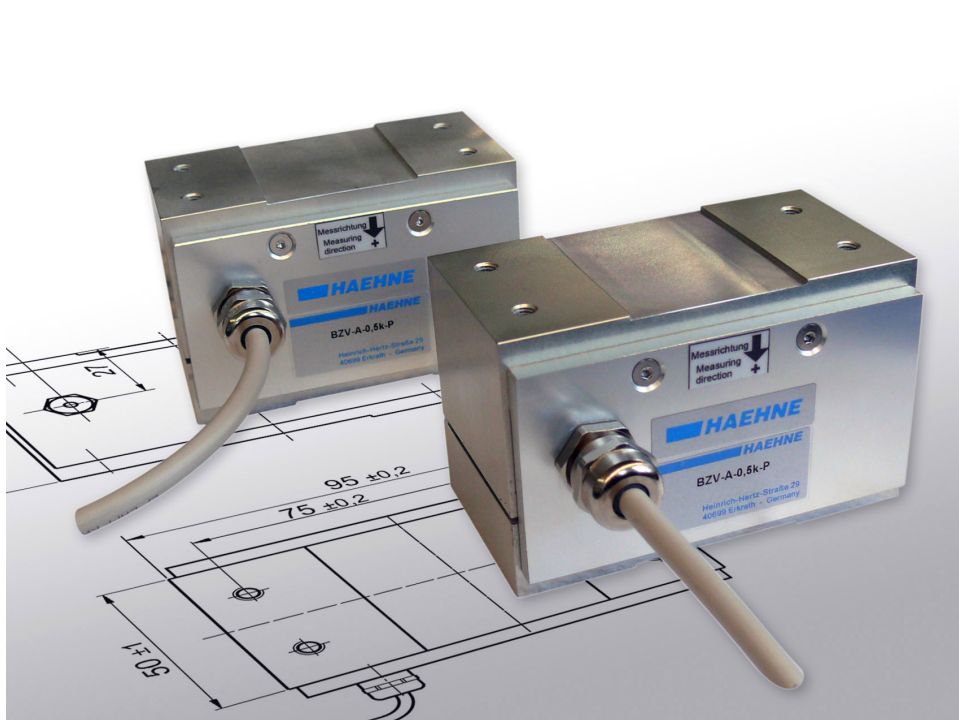
Web tension sensor with fixed PVC cable, 5 m in length with straight receptacle

## Versions

- **Option S:** Right angle plug

## Additional Accessories

- **Option F:** Use in potentially explosive atmospheres (Adaption Modul J-Box contained in the scope of supply)



### Option S:

The plug is adjustable in 4 angle positions, also after mounting.



Individual coloring on request

The web tension sensors of the series BZV-A and BZH-A are of a compact pillow block design and suitable for a variety of applications. The sensor is mounted in between the pillow block bearing and the machine frame.

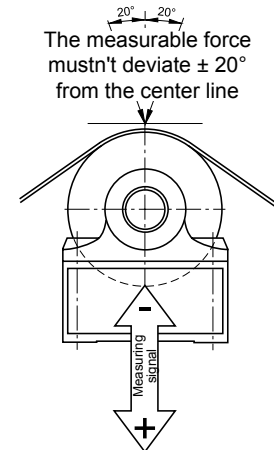
**The sensors function according to the strain gauge principle. This means that they are very stiff and not prone to oscillations and vibrations. This is a deciding advantage compared to sensors based on displacement measurement as e.g. exemplified by the LVDT principle (Linear Variable Differential Transformer).**

The BZV - devices capture the vertical forces of web tension, the devices of the series BZH the horizontal component.

The voltage supply to the full bridge and the processing of the measuring signals is effected by way of a suitable amplifier of the standard **HAEHNE** product program. The signals at the output terminals of the amplifier are proportional to the acting vertical force. They can be digitally displayed or used as instantaneous values in a closed control loop.

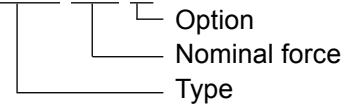
Technical Data		% Values based on nominal force
Measuring Range		0,1; 0,2; 0,5; 1 kN
Max. operating force		160 %
Absolute max. force <sup>*)</sup>		1000 %
Nominal rating:	Standard	0,5 mV / V
	Option F	J-Box necessary
Combined error		0,5 %
Nominal ambient temperature		+10 ... +60 °C
Operational temperature range		-10 ... +70 °C
Nominal resistance of the strain gauge bridge		1400 Ω
Max. bridge supply voltage		10 VDC
Protection class		IP 52
Sensor cable (standard)		PVC, grey, 4 x 0,34 mm <sup>2</sup>
Weight		circa 1 kg
*) with static load		

**BZV-A**

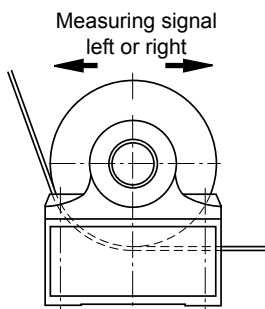


**Ordering Data:**

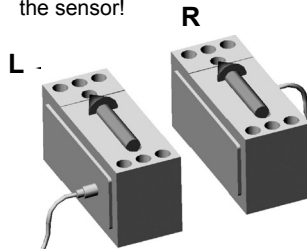
**BZV-A0,5k-F**



**BZH-A**



Consider the arrows for the measuring direction on the sensor!



**Ordering Data:**

**BZH-A-R0,5k-F**

