

Force Sensor BZV-A01 and 02

Scope of Supply

Web tension sensor in pillow block design with 5 m cable (PUR) and connection variant T: cable gland, straight

Variant

N2: Plug connection, straight, M12, moulded

Additional Options

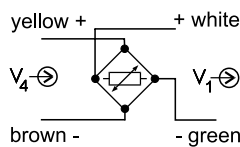
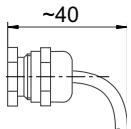
U: Metal protection hose, fixed connected
 F: For use in explosive areas incl. J-Box



Picture similar

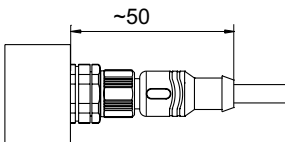
Connections

Variant T

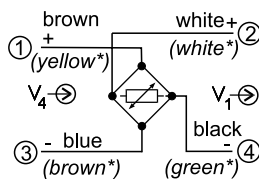


V_4 Supply voltage
 V_1 Signal voltage

Variant N2



*Alternative color coding

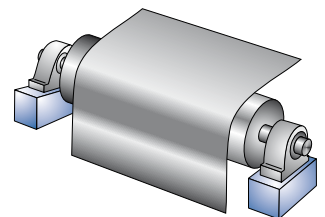


Special Features

- Nominal force from 5 up to 25 kN
- Compact design for vertical measurement
- Available in standard design or with individual dimensions
- Cost effective pillow block design made of high-strength aluminum

The web tension sensors of the series BZV-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.

All BZV - devices capture the vertical forces of web tension. 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.



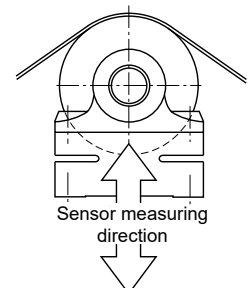
Additional Options

Option U:

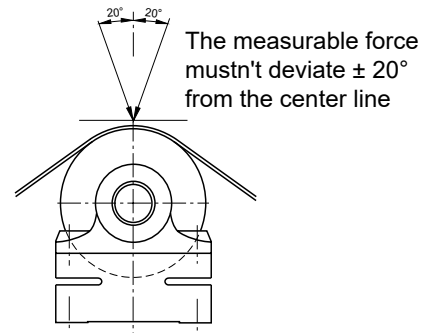


Ordering Example: BZV-A01-20k-TU

Type	
Size	
Nominal force	
Variants/ Options	

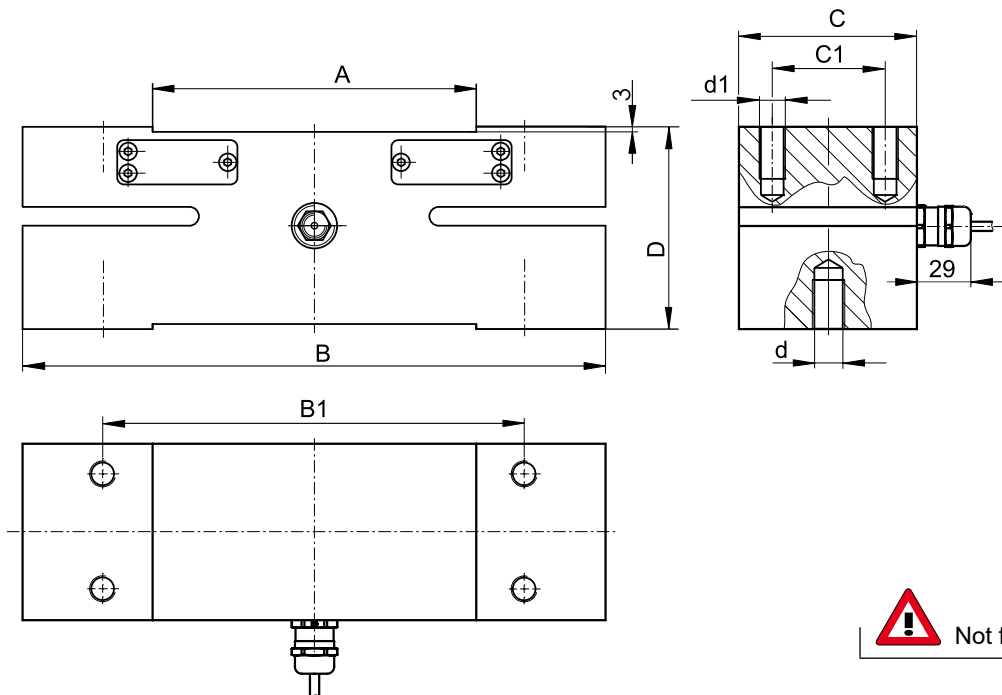
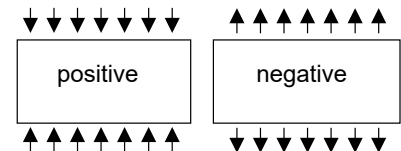


Technical Data	% Values based on nominal force
Measuring range	5; 10; 20; 25 kN
Max. operating force	160 %
Absolute max. force ^{*)}	800 %
Nominal rating:	0,5 mV/V
Combined error	0,5 %
Reproducibility	max. ±0,1 %
Linearity deviation	max. ± 0,3 %
Hysteresis	max. ± 0,3 %
Nominal ambient temperature	+10... +60 °C / 32... 140 °F
Operational temperature range	-10... +70 °C / 14... 158 °F
Nominal resistance of the strain gauge bridge	2000 Ω
Max. bridge supply voltage	10 VDC
Enclosure protection	IP 54
Sensor cable (standard)	PUR, grey, 4 x 0,34 mm ²
Weight size 01; 02 in kg	7; 12
*) with static load	



Specification applies to horizontal installation

Signal voltage



Alternatively, an individual adaptation to the following pillow block bearings is possible. For example:

- Size 01
- SKF (SNH 509)
- FAG (SNV 080)
- Size 02
- SKF (SNH 515)
- FAG (SNV 140)
- et al.



Not for use in corrosive environments

Dimensions in mm (1 mm = 0.03937 inches)

Size	B	B1	A	C	C1	D	d1	d
01	230 +0,5	170 ±0,1	127 +0,2	90 +0,5	50 ±0,1	125 -0,5	4xM12x24	2xM16x32
02	360 +0,5	260 ±0,1	200 +0,2	110 +0,5	70 ±0,1	125 -0,5	4xM16x32	2xM20x40