

Force Sensor BZV-K03

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

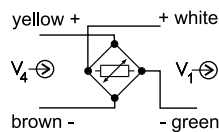
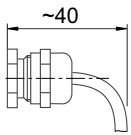
Additional Options

E: Design for flatness measuring roll, grinded pairwise
 U: Metal protection hose, fixed connected
 F: For use in explosive areas incl. J-Box

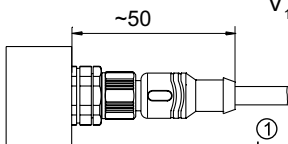


Connections

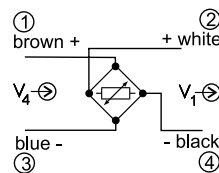
Variant T



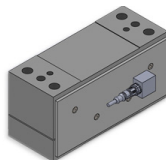
Variant N2



V₄ Supply voltage
 V₁ Signal voltage



Plug shows towards the center



Additional Option

Option U:



Ordering Example: BZV-K03-200k-T

Type	
Size	
Nominal force	
Variants/ Options	

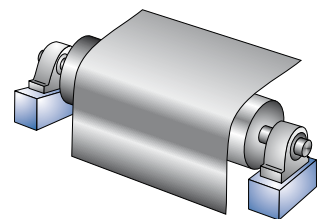
Special Features

- Nominal force from 200 kN
- Compact design
- Easy modification to different bearing designs and sizes
- High overload protection utilizing mechanical stops
- Torsion resistant measuring block made of stainless steel

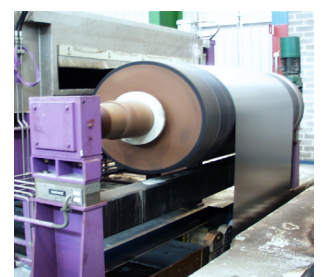
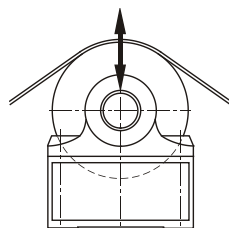
The web tension sensors of the series BZV-K are of a compact pillow block design and suitable for a variety of applications. The sensor is mounted in between the pillow block bearing and the machine frame.

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 HA EHNE 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.



Measuring direction of sensor



Technical Data	% Values based on nominal force
Measuring Range	200 kN
Max. operating force	160 %
Absolute max. force	500 %
Nominal ratings:	1 mV / V
Combined error	0,5 %
Reproducibility	max. ± 0,1 %
Non-linearity	max. ± 0,3 %
Hysteresis	max. ± 0,3 %
Zero drift	max. 50 ppm/C°
Nominal ambient temperature	+ 10 ... +60° C (+50...+140° F)
Operational temperature range	- 10 ... +70° C (+14... +158° F)
Nominal resistance of the strain gauge bridge	700 Ω
Max. bridge supply voltage	10 VDC
Enclosure protection	IP 67
Sensor cable (standard)	PUR, grey, 4 x 0,34 mm ²
Weight in kg	80

