

## Force Sensor BZH-K03

### Scope of Supply

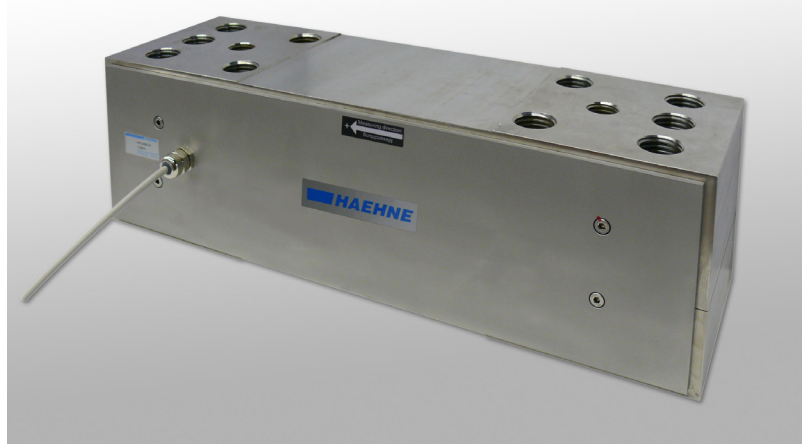
Web tension sensor in pillow block design with 5 m cable (PUR) and connection variant T: cable gland, straight

### Variant

N2: Plug connection, straight, M12, moulded

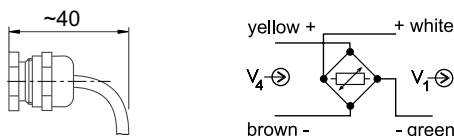
### Additional Options

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



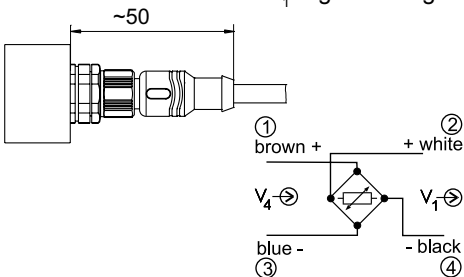
### Connections

Variant T

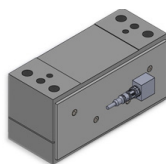


$V_4$  Supply voltage  
 $V_1$  Signal voltage

Variant N2



Plug shows towards the center

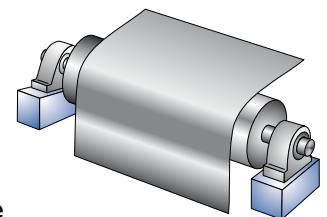


### Special Features

- Nominal force 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 BZH-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 BZH - devices capture the horizontal 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 horizontal force. They can be digitally displayed or used as instantaneous values in a closed control loop.



### Additional Option

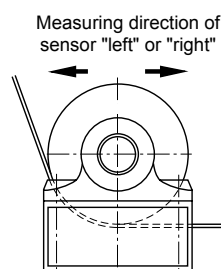
Option U



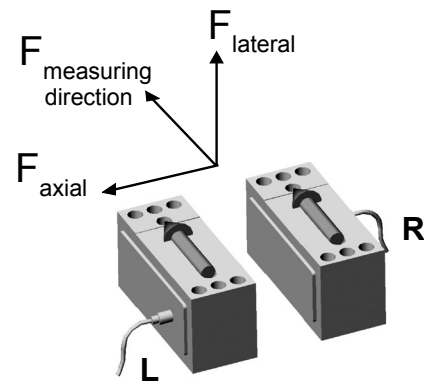
### Ordering Example:

**BZH-K03R200k-TF**

Type	
Size	
Design	
Nominal force	
Variants / Options	



Technical Data	Values (%) based on nominal force
Nominal force (measuring range)	200 kN
Max. operating force	160 %
Absolute max. force	500 %
Nominal rating	1,5 mV / V
Combined error	0,5 %
Non-linearity	± 0,3 %
Reproducibility	± 0,1 %
Hysteresis	± 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
Bridge supply voltage	10 VDC
Enclosure protection	IP 67
Weight in kg	80



When ordering please specify „L“ (left) or „R“ (right) in order to determine unequivocally the measurement direction and the cable connector exit.

