Force Sensor BZH-K00

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

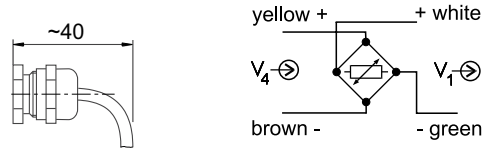
F: For use in explosive areas incl. J-Box

Special Features

- Nominal force from 1 up to 5 kN
- Compact design
- Easy modification to different bearing designs and sizes
- High overload protection utilising mechanical stops
- Torsion resistant measuring block made of stainless steel

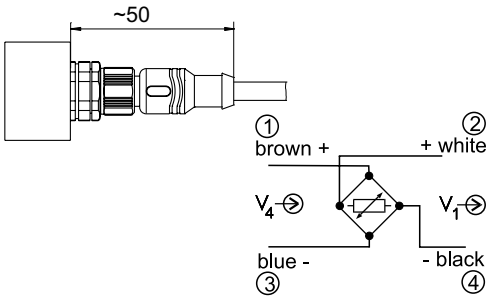
Connections

Variant T



V_4 Supply voltage
V_1 Signal voltage

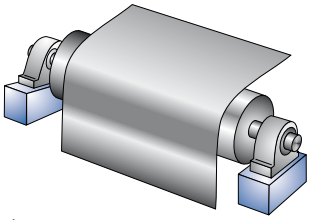
Variant N2



Additional Options

Option U

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.



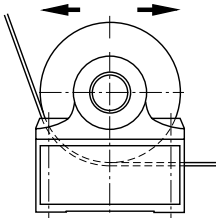
All BZH - devices capture the horizontal forces of web tension.
The voltage supply to the full bridge and the processing of the measuring signals is effected by way of a suitable amplifier of the standard *HAEHNE* product program.
The signals at the output terminals of the amplifier are proportional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

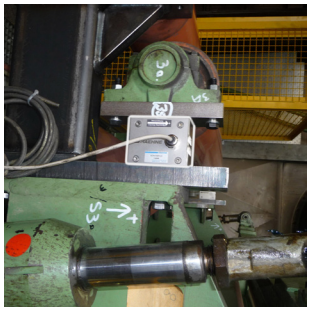
Ordering Example

BZH-K00R5k-TF

Type
Size
Design
Nominal force
Variants / Options

Measuring direction of sensor "left" or "right"





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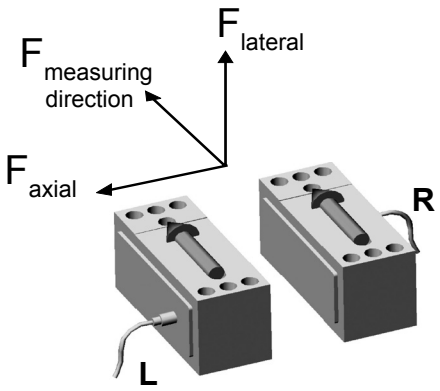
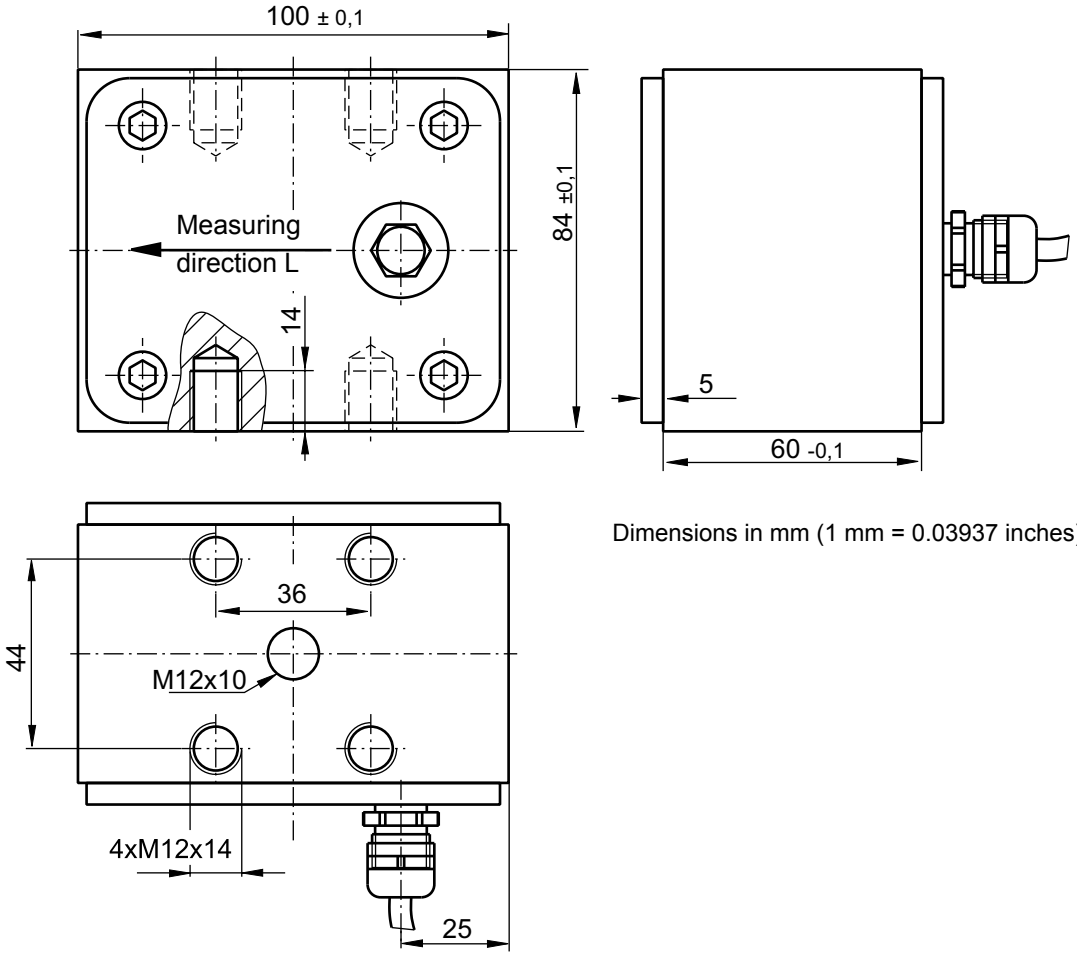
http://www.haehne.de Email: info@haehne.de

BZH-K00

Technical Data	Values (%) based on nominal force
Measuring range	1; 2; 5 kN
Max. operating force	160 %
Absolute max. force	1000 %
Nominal rating	1,5 mV / V
Combined error	0,5 %
Reproducibility	max. ± 0,05 %
Linearity	± 0,2 %
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. brigde supply voltage	10 VDC
Enclosure protection	IP 67

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





Dimensions in mm (1 mm = 0.03937 inches)

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