

Force Sensor BZH-K01 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

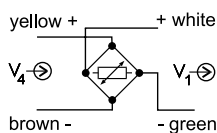
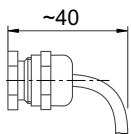
Additional Options

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



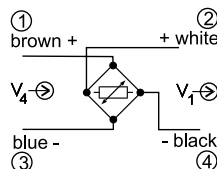
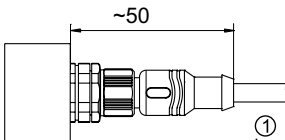
Connections

Variant T

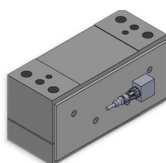


V_4 Supply voltage
 V_1 Signal voltage

Variant N2



Plug shows towards the center



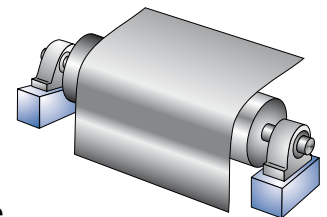
Special Features

- Nominal force from 10 up to 100 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

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.



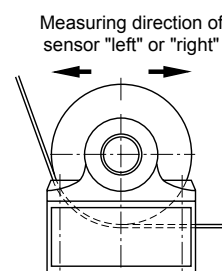
Additional Option

Option U

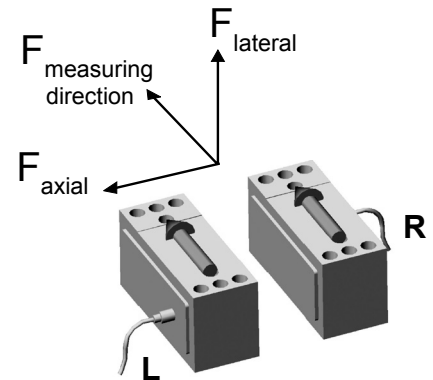


Ordering Example BZH-K02R50k-TF

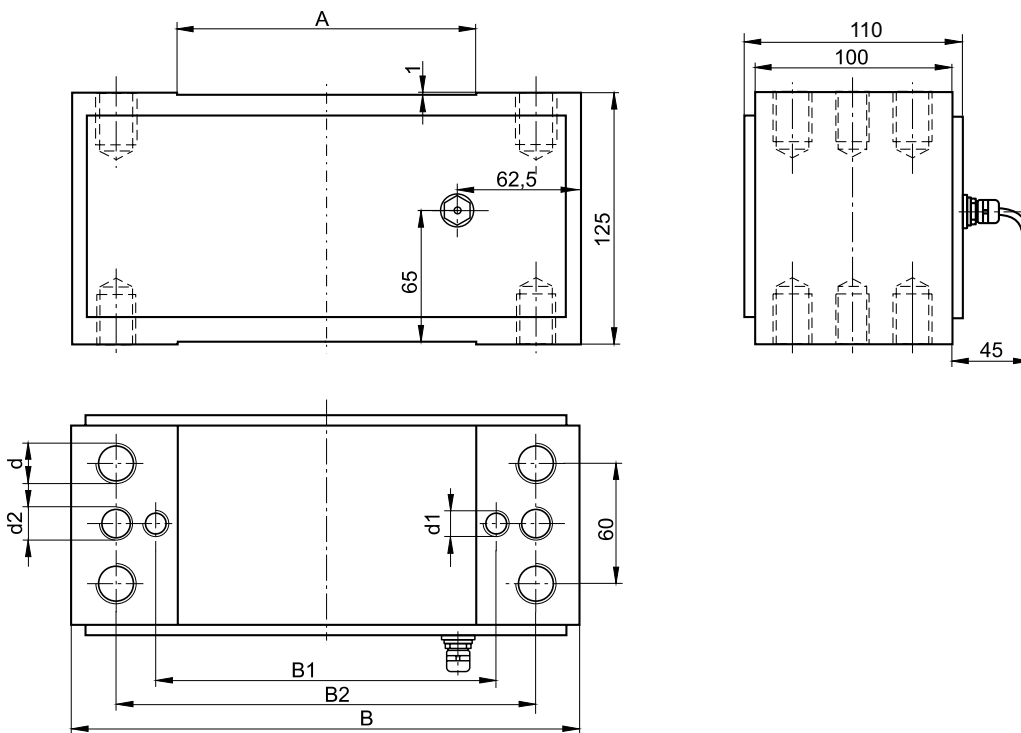
Type	
Size	
Design	
Nominal force	
Variants / Options	



Technical Data	Values (%) based on nominal force
Measuring range	10; 20; 50; 100 kN
Max. operating force	160 %
Absolute max. force	1000 %
Nominal rating (with option F: J-Box necessary)	1,5 mV / V
Combined error	0,5 %
Reproducibility	max. ± 0,05 %
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
Weight Size 01; 02 in kg	25; 33



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)

Size	Measuring Range	A	B	d*	B1	d1	B2	d2
01	10; 20 kN	130	255 ⁰ _{-0,2}	M20x30	170 ±0,2	M12x20	210 ±0,2	M16x24
*available for fixing additional mounting plates					for pillow block ø 35 ...45 mm		for pillow block ø 40 ...55 mm	
02	10; 20; 50; 100 kN	150	345 ⁰ _{-0,3}	M20x30	230 ±0,2	M16x24	290 ±0,2	M20x30
*available for fixing additional mounting plates					for pillow block ø 50 ...65mm		for pillow block ø 65 ...85mm	