

Force Sensor BZV-F

Scope of Supply

Web tension pillow block with 5 m cable and standard connection

Variants Size 01:

N3 (standard):

Plug connection, straight,
M8, moulded

T: Cable gland, straight

S3: Plug connection, right-angled,
M8, moulded

Variants Size 02 /04:

N2 (standard):

Plug connection, straight,
M12, moulded

T: Cable gland, straight

S2: Plug connection, right-angled,
M12, moulded

Additional Options

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

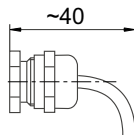


Special Features

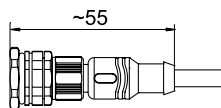
- Favorable price / performance ratio
- Low height
- Finely graded nominal force ranges
- Up to 5 fold overload

Connections

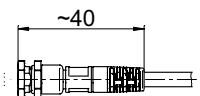
Variant T



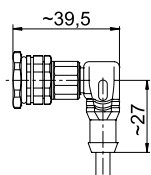
Variant N2



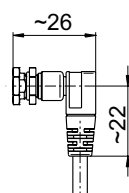
Variant N3



Variant S2



Variante S3



The web tension sensors of the series BZV-F are characterized by an extremely flat design and a variety of applications.

They are mounted between the pillow block bearing and the machine frame.

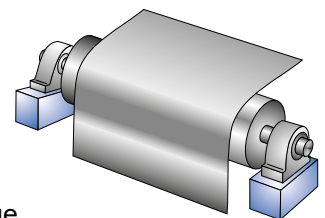
All BZV-F devices capture the vertical forces of web tension.

The voltage supply to the full bridge

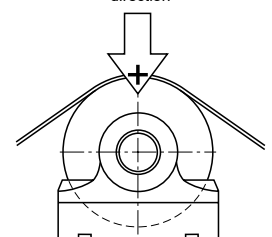
and the processing of the measuring signals

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.



Measurement
direction



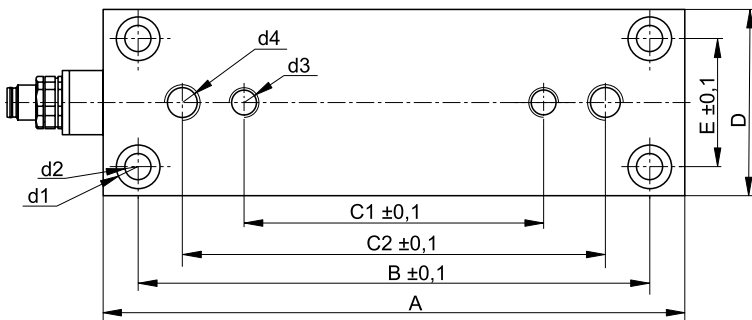
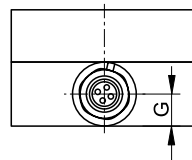
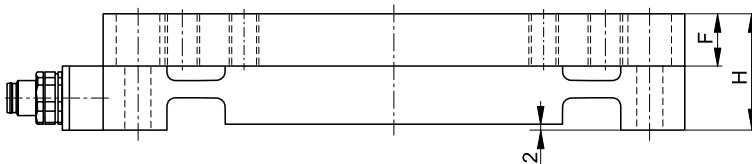
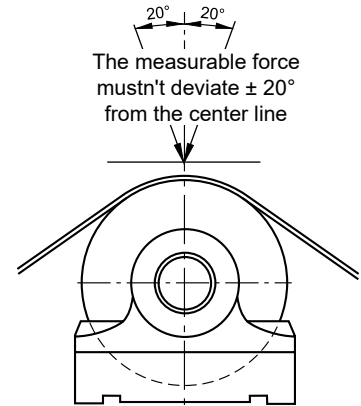
Ordering Example

BZV-F01A-0,5k-N3

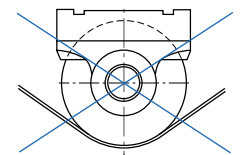
Type	
Size	
Nominal force	
Variants/ Options	

Technical Data		% Values based on nominal force	
Max. operating force	160 %	Operational temperature range	-10...+70 °C
Absolute max. force in measuring direction	500 %	Nominal resistance of the strain gauge bridge	2000 Ω
Nominal rating	1 m V/V	Bridge supply voltage	10 V DC
Combined error	0,5 %	Protection class	IP53
Nominal temperature range	+10...+60 °C	*) Nominal rating 0,75 mV/V	

	Size	Nominal Force [kN]												
		0,1*)	0,25	0,5	1									
A=Aluminium	01A	0,1*)	0,25	0,5	1									
	02A		0,25	0,5	1	1,25	2,5	5						
	04A							5	12,5					
E=Stainless Steel	02E					1,25	2,5	5						
	04E1							5	12,5					
	04E2									25	50			

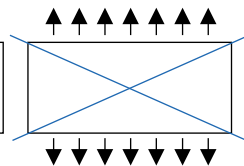


Do not mount in hanging position



Absolute max. force 500 %

Signal voltage positive



Thread d3 and d4 adaptable to customer requirements.

Size	A	B	C1	C2	D	E	F	G	H	d1	d2	d3	d4
01A	134	118	95	-	44	28	14	7	28	11	7	M10	--
02A/E	200	176	105	159	64	44	17,5	11	40	15	9	M12	M16
04A/E1 / 04A/E2	280	230	170	210	94	66	22	13	48	20	13	M16	M16