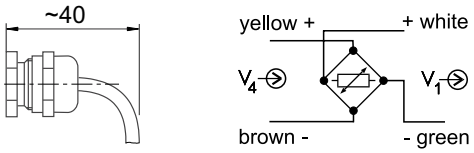
Force Sensor ZAK-D with Clamping Adapter

Scope of Supply
Force sensor with mit fastener,
cable connection T: cable gland, straight

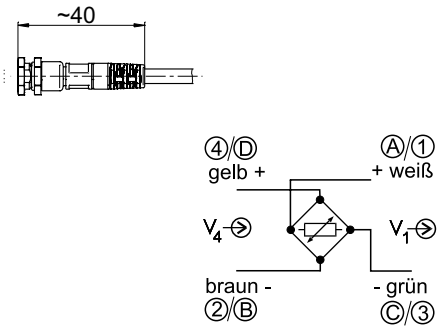
Variants
N3: Plug connection, straight,
M8, moulded
S3: Plug connection, right-angled,
M8, moulded

Connections

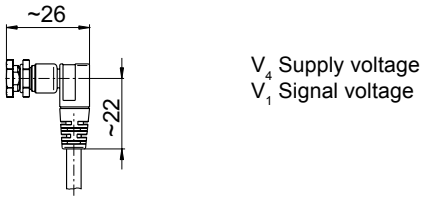
Variant T



Variant N3



Variant S3



Ordering example

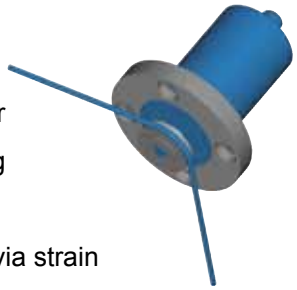
ZAK-D20-500-T

Type
Design
Diameter d1
Nominal force
Variants/ Options

Special Features

- Nominal forces from 10 to 1000 N
- Easy assembly and small space requirement
- Positive measuring direction in the direction of the red dot

Sensors with clamping adapter for standing shaft journals are characterized in particular by the ease of mounting.
This minimizes set-up and downtimes and the resulting costs for roll changes.
The sensor and the lower half of the clamping adapter consist of one part, the upper half of the clamping device is fixed with two screws. This type of attachment results in large holding forces without damaging the shaft and precise and accurate measurement of tensile forces.



For maximum signal usage and temperature compensation, the sensor works according to the double bending beam principle.
The signal measurement takes place via strain gauges, which are connected to a full bridge. If the force to be measured acts in the direction of the red dot, the result is a positive measuring signal. *HAEHNE* offers for all its sensors a corresponding range of amplifiers to condition the measuring signal and deliver the bridge voltage supply.

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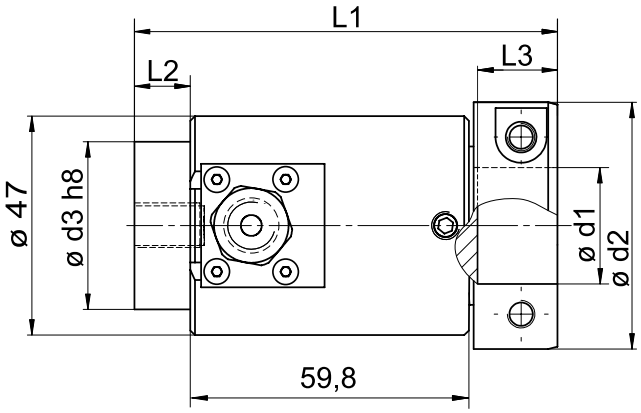
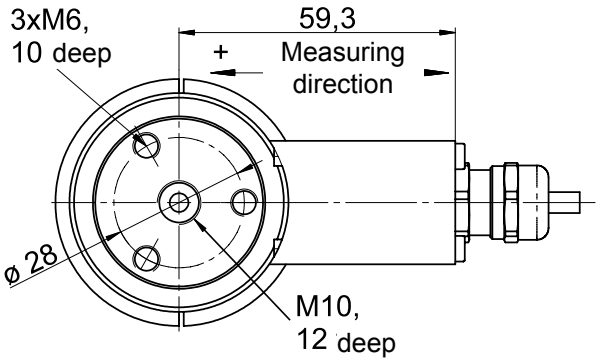
ZAK-D

Technical Data	Values (%) based on nominal force
Nominal force F_{nom}	100, 200, 500, 1000 N
max. operating force	160 %
Absolut max. force	400 %
Nominal rating	1 mV/V
Combined error	0,5 %
Nominal ambient temperature	+10… +60°C
Operational temperature range	-10 … +70°C
Bridge supply voltage	10 V DC
Protection class	IP54





d1	d2	d3	L1	L2	L3
20	48	—	75	0,2	14
25	53	36	90,8	12	18
30	56	36	93,8	12	18
Other roll journal diameters on reques					

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