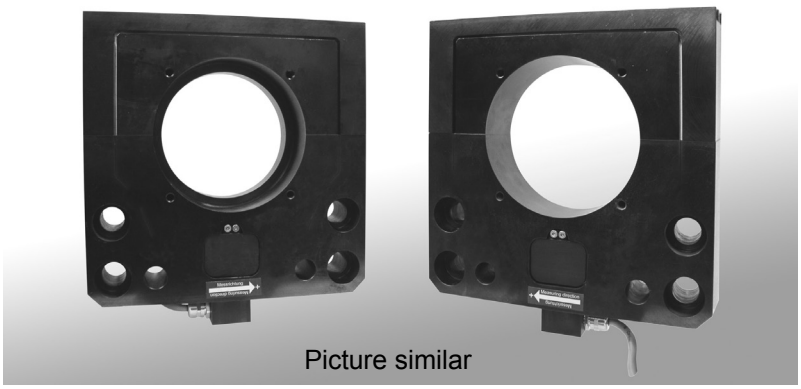
Measuring Pillow Block Bearing MDL

Scope of Supply
Measuring pillow block bearing with 5 m cable and with connection variant T: cable gland, straight

Variant
S: Plug connection, right-angled, MIL

Additional Options
Measuring direction H o V

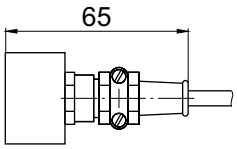

Picture similar

Special Features

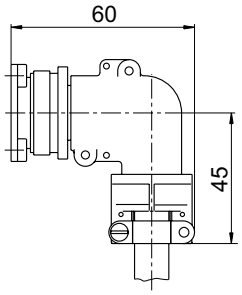
- Vertical and horizontal measuring direction
- Nominal force 5 kN

Connections

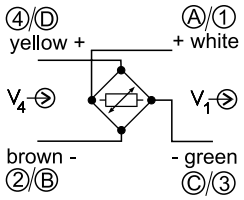
Variant T



Variant S



Wire assignment



V_4: Supply voltage
V_1: Signal voltage

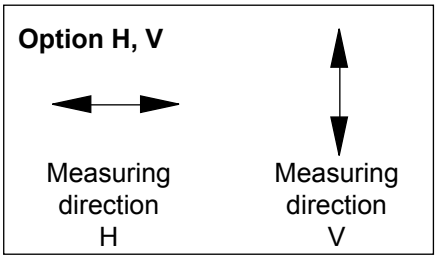
Specifically designed for machines where re-grinding of rolls, a surface treatment of rolls, or a quick exchange of rolls is essential. The measuring pillow block bearing MDL is designed for quick installation and removal of rolls. Only a few bolts are necessary for the exchange of rolls. The extremely narrow design is especially suited for mounting the bearings in confined spaces in machinery.
The integrated measuring element function according to the double beam principle with applied full bridge strain gauges. The measuring amplifier e. g. the *HAEHNE* MV125 is available for the voltage supply to the full bridge and the processing of the measuring signals.

Mechanical stops prevent overload conditions.

Odering example

MDL-V2-5k-S

- Type
- Meas. direction
- Fixed bearing
- Nominal force
- Variants/ Options



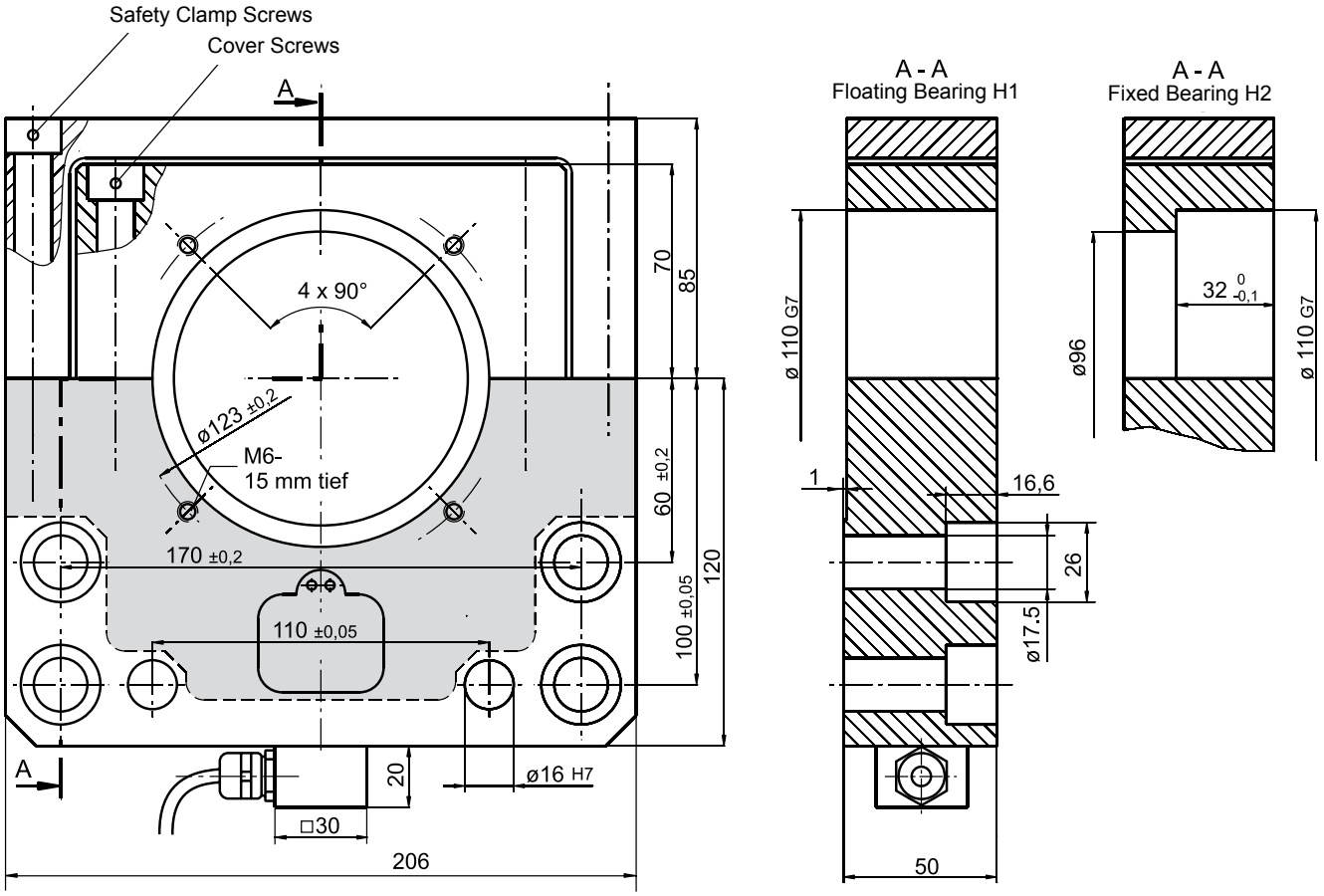
HAEHNE Elektronische Messgeräte GmbH · Heinrich-Hertz-Str. 29 · D-40699 Erkrath Germany · Telefon 0211/9 2591-0 · Fax 0211/9 2591-20
http://www.haehne.de Email: info@haehne.de

Technical Data	%-Values based on nomial force
Nominal force (measuring range)	5 kN
Max. operating force	120 %
Absolute max. force	200 %
Overload protection	1000 %
Nominal rating	1 mV / V
Comined error	0,5 %
Nominal ambient temperature	+10...+60° C
Operational temperature range	- 10...+75° C
Bridge supply voltage	10 VDC
Option H	Horizontal measuring direction
Option V	Vertical measuring direction
Material	Tool steel

Attention!

Measuring rolls must have a fixed and a floating bearing and should be equipped only with self-aligning ball bearings. Temperature-dependent expansion of the shaft must be possible. Expansion does not effect the measuring accuracy.

Example of application



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