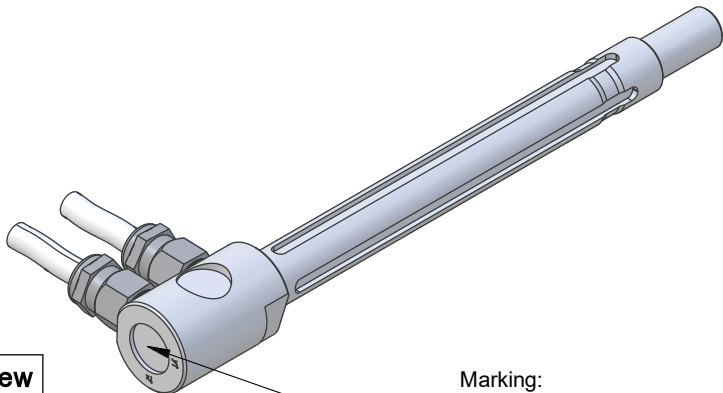
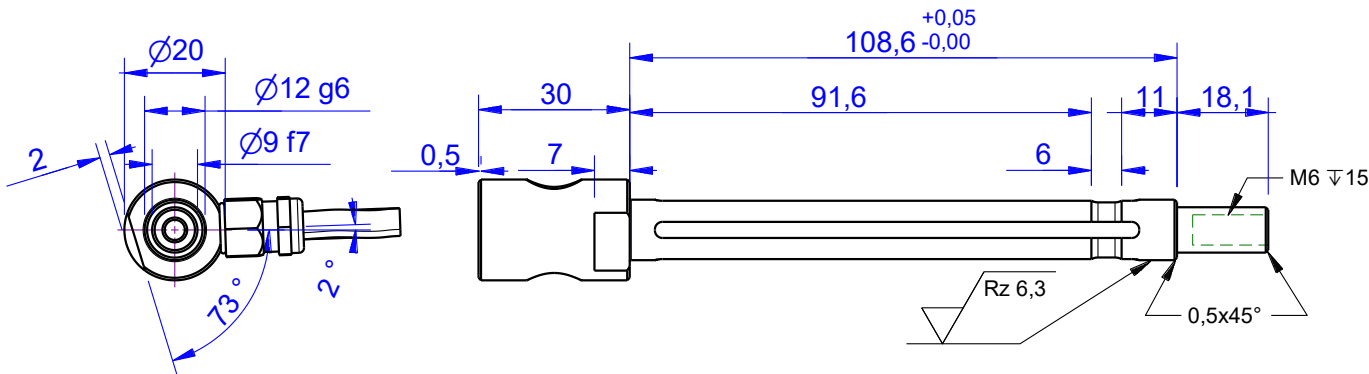


MB1900

X-Y Load Pin



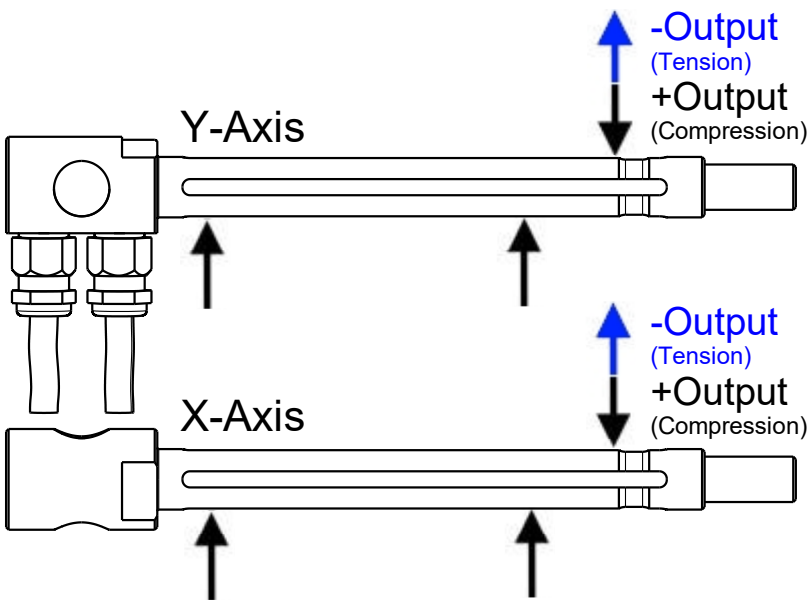
Ordernumber	Capacity [kN] (F.S.)	Uncertainty [kN] (k=2)	Review
MB1900-2-x-C	2	$\pm 0,01$	C
MB1900-3-x-C*	3	$\pm 0,02$	C

Marking:
Loadpin: MBx
Orderno.: MBx-xxx-x-x
Serialno.: xxxxxxxx
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* above showed version
fixed dimensions don't change at other capacity

Specifications:

Dimension / Material		
Material		Steel**
Protection class		IP 66
Hardness (load area)	HRC	58 ± 2
Mechanical Data		
Safe Load Limit	% of F.S.	120
Breaking Load	% of F.S.	200
Precision		
Nonlinearity	% of F.S.	$\pm 0,5$
Nonrepeatability	% of F.S.	$\pm 0,25$
Hysteresis	% of F.S.	$\pm 0,2$
Temp. Shift Zero	% of F.S./K.	$\pm 0,05$
Temp. Shift Span	% of F.S./K.	$\pm 0,05$
Temperature		
Compensated Temp.	°C	-10...+60
Operating Temp.	°C	-20...+120



**** Caution The surface of the loadpin can corrode!
The material is not ductile, in case of overload
brittle fracture can cause!**

Mounting Situation

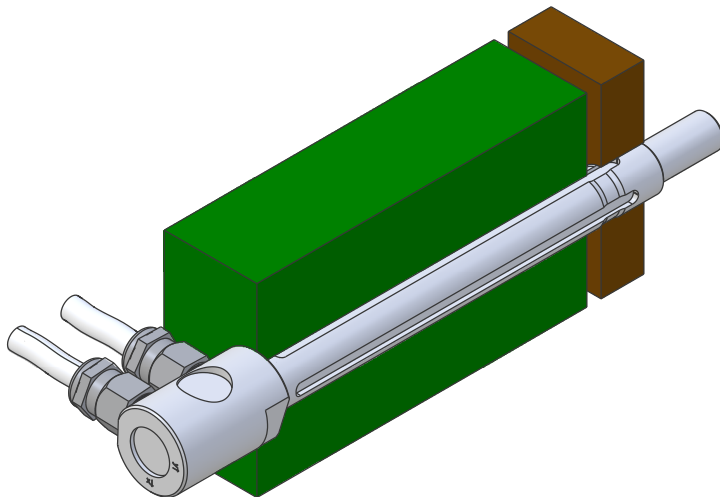
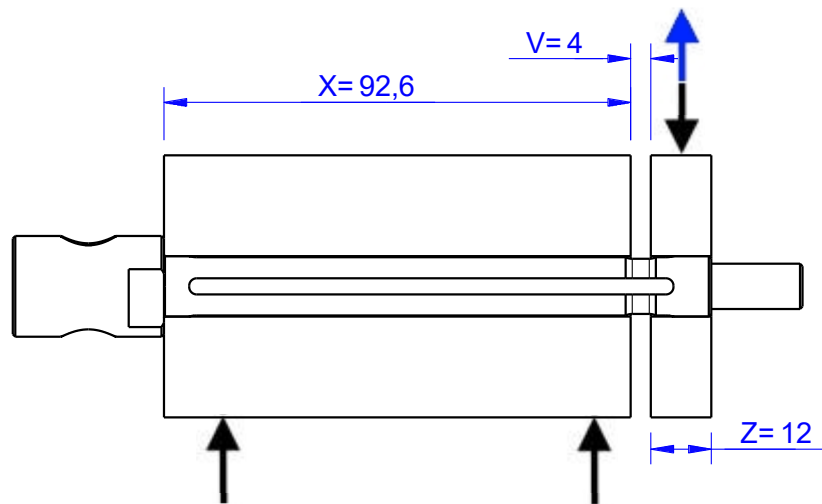
MB1900 Review: C

Bore fit of mounting situation: H7

Configuration

possible mounting situation / customer mounting could vary

(Please describe mounting situation with Vs, Ws, Xs, Ys and Zs for best possible calibration)



1. Corrosion:

Attention, the material is not stainless steel, we would like to point out that the surface of the loadpin can corrode. Corrosion protection must be provided by the customer (oil/painting).

2. Brittle fracture:

Attention danger of brittle fracture. The material is hardened steel, if the permissible breakingload on the data sheet is exceeded, sudden failure occurs. We therefore recommend not using this material if there is a risk of life, limb or property damage.

3. Final test:

The final test of the load pin is carried out with the nominal load (F.S.).

4. Breaking load:

The specified breaking load is a calculated value. The delivered load pin was not tested for breaking load.

5. Laser Welding:

Loadpins made of this material cannot be designed with a laser-welded cover.

Output Signal & Wiring

MB1900 Review: C

Analog Output mV/V (S1)

Electrical Data		
Rated Output	mV/V@F.S.	0,5
Zero Balance	mV/V	±0,05
Excitation (Maximum)	Volt	10
Input Resistance	Ohm	450±100*
Output Resistance	Ohm	352±2
Insulating Resistance	GOhm	>5

Wiringcode: WC52		Cabletype: 4x0,15 ALMI HAFL-C		
Cable Length	Excitation (+)	Excitation (-)	Bridge (+)	Bridge (-)
3 m	brown	white	green	yellow

Ordernumber Add-On:

MBxxx-x-S1-x

* the input resistance could also be changed to 1000±200Ohm because of availability of strain gages

Batarow
Made in Germany

Batarow Sensorik GmbH
Gewerbegebiet 4
18276 Lüssow OT Karow

Mail: info@batarow.com
Phone: +49 (0) 3843-855555
Fax : +49 (0) 3843-855556

Internet:
www.batarow.com