

MB1941

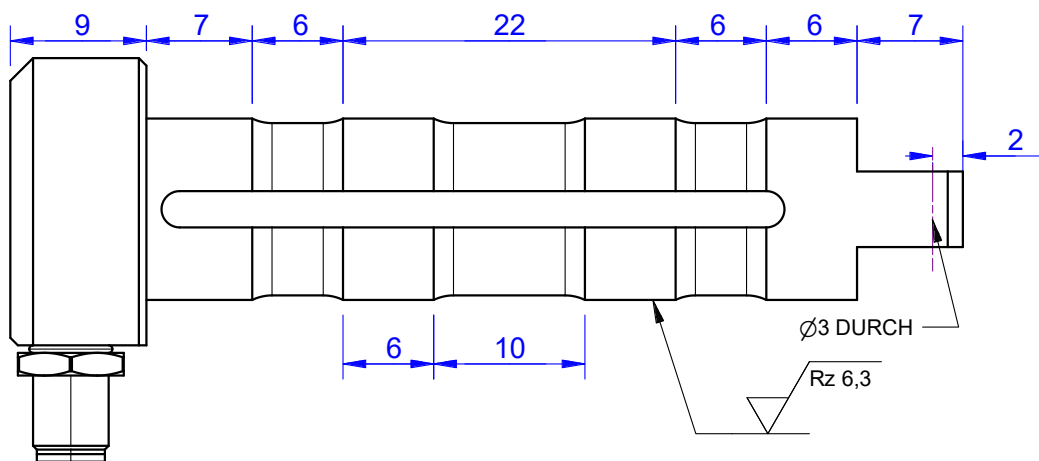
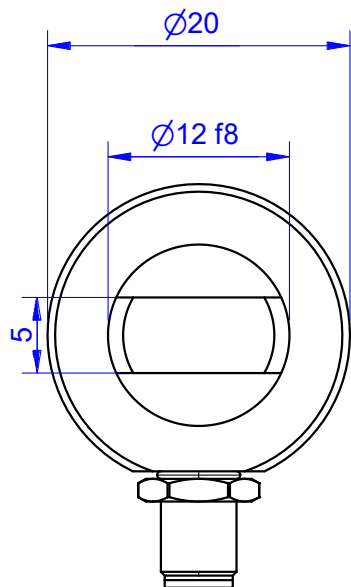
Load Pin

Content of Loadpin Datasheet

Page 1 ... General

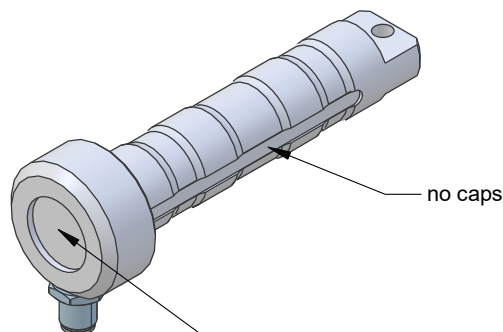
Page 2 ... Mounting Situation

Page 3 ... Output Signal & Wiring



Ordernumber	Capacity [kN] (F.S.)	Uncertainty [kN] (k=2)	Review
MB1941-1-x-A	1	±0,005	A
MB1941-2-x-A	2	±0,01	A
MB1941-5-x-A	5	±0,025	A
MB1941-10-x-A	10	±0,05	A
MB1941-20-x-A*	20	±0,10	A

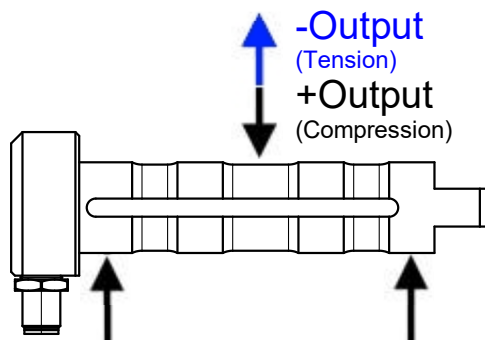
* above showed version
fixed dimensions don't change at other capacity



Marking:
Loadpin: MBx
Orderno.: MBx-xxx-x-x
Serialno.: xxxxxxxx
www.batarow.com
Made in Germany

Specifications:

Dimension / Material		
Material		Steel**
Protection class		IP 64
Hardness (load area)	HRC	58± 2
Mechanical Data		
Safe Load Limit	% of F.S.	105
Breaking Load	% of F.S.	150
Precision		
Nonlinearity	% of F.S.	±0,5
Nonrepeatability	% of F.S.	±0,25
Hysteresis	% of F.S.	±0,2
Temp. Shift Zero	% of F.S./K.	±0,05
Temp. Shift Span	% of F.S./K.	±0,05
Temperature		
Compensated Temp.	°C	-10...+60
Operating Temp.	°C	-20...+70



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

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

Mounting Situation

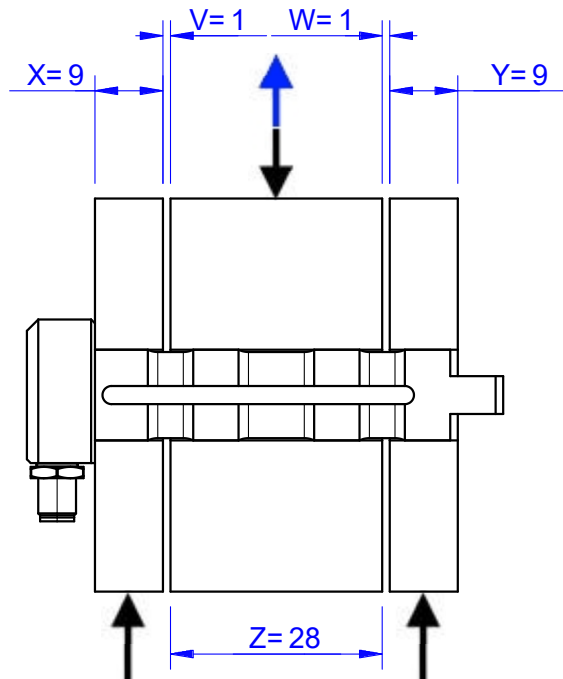
MB1941 Review: A

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:

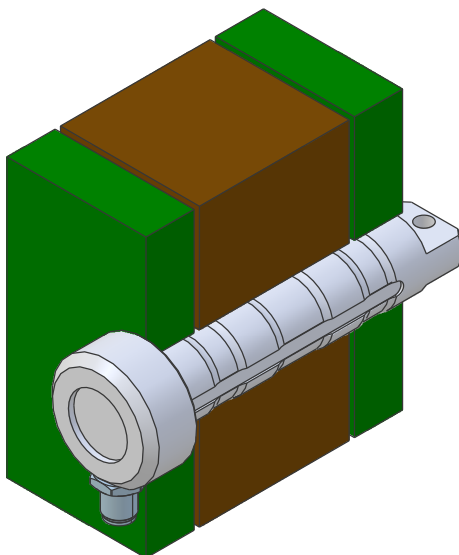
The final test of the load pin is carried out with the nominal load (F.S.).

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

MB1941 Review: A

Analog Output mV/V (S1)

Electrical Data		
Rated Output	mV/V@F.S.	1
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: WC538		Connectortype: M5 (male)			
	Excitation (+)	Excitation (-)	Bridge (+)	Bridge (-)	
	Pin 1	Pin 2	Pin 3	Pin 4	

Ordernumber Add-On:

MBxxx-x-S1-x

Attention: Nipple orientation of connector is not fixed. In case of 90° connector - it is necessary to set by customer.

*Attention: With this output configuration is no negative signal (Tension) possible. Please ask our engineering for 4..12..20mA; 1..5..9V or ±10V versions.

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