

# MB786

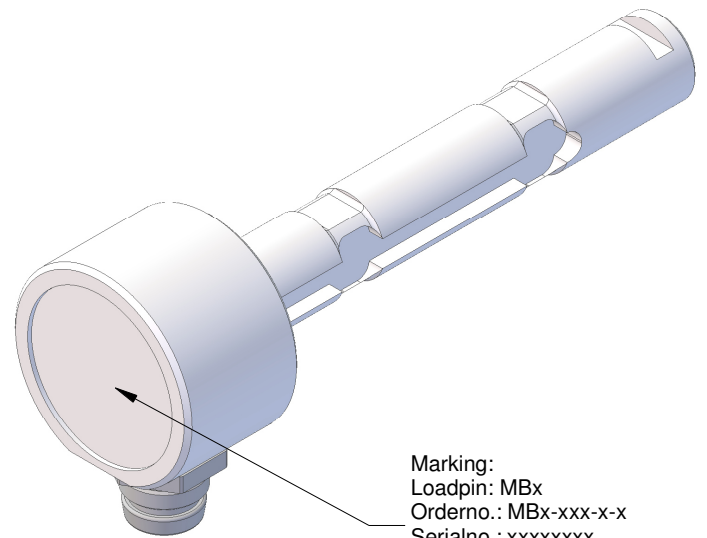
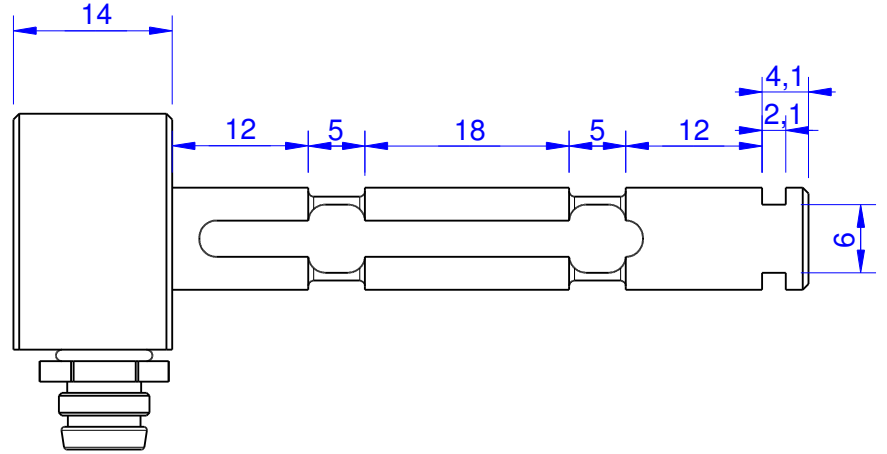
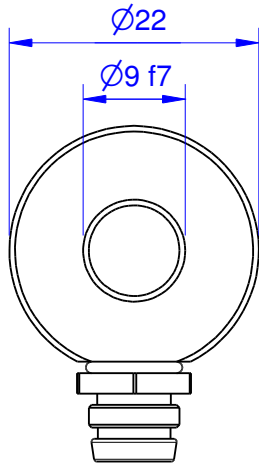
miniature Load Pin

## Content of Loadpin Datasheet

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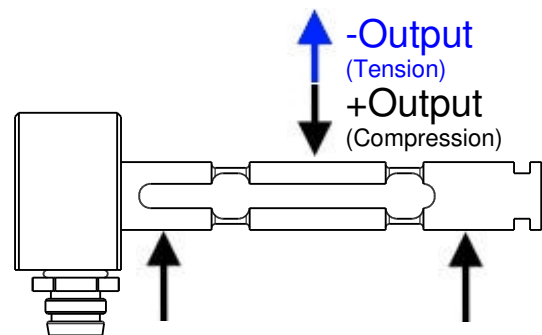
Marking:  
Loadpin: MBx  
Orderno.: MBx-xxx-x-x  
Serialno.: xxxxxxxx  
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Order-number	Capacity (F.S.)	Uncertainty (k=2)	Review
MB786-0,5-x-A*	0,5 kN	±0,0025kN	A
MB786-1-x-A	1,0 kN	±0,005 kN	A
MB786-2-x-A	2,0 kN	±0,010 kN	A
MB786-5-x-A	5,0 kN	±0,025 kN	A

\* above showed version  
The fixed dimensions don't change at the other capacity.

### Specifications:

Dimension / Material		
Material		Stainless Steel
Protection class		IP 64
Hardness (load area)	HRC	38
<b>Mechanical Data</b>		
Safe Load Limit	% of F.S.	150
Breaking Load	% of F.S.	300
<b>Precision</b>		
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
<b>Temperature</b>		
Compensated Temp.	°C	-10...+60
Operating Temp.	°C	-20...+70



**Batarow**  
Made in Germany

Batarow Sensorik GmbH  
Pappelweg 16  
18276 Lüssow OT Karow

Mail: info@batarow.com  
Phone: +49 (0) 3843-855555  
Fax : +49 (0) 3843-218842

Internet:  
www.batarow.com

# Mounting Situation

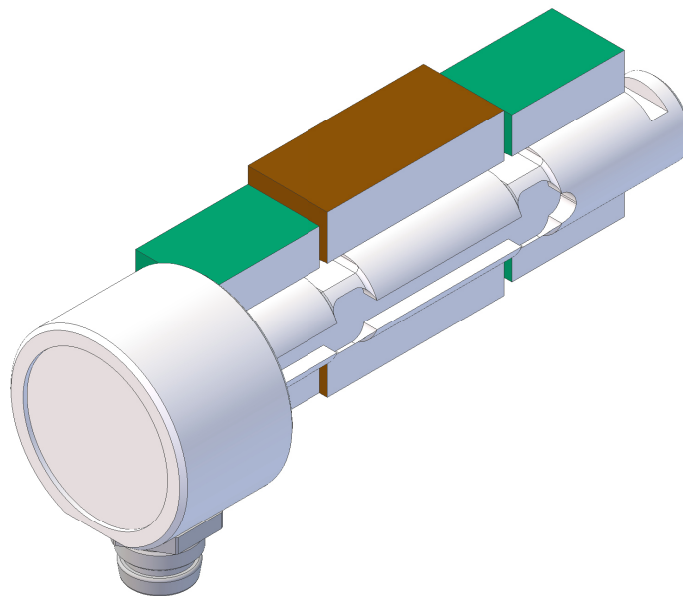
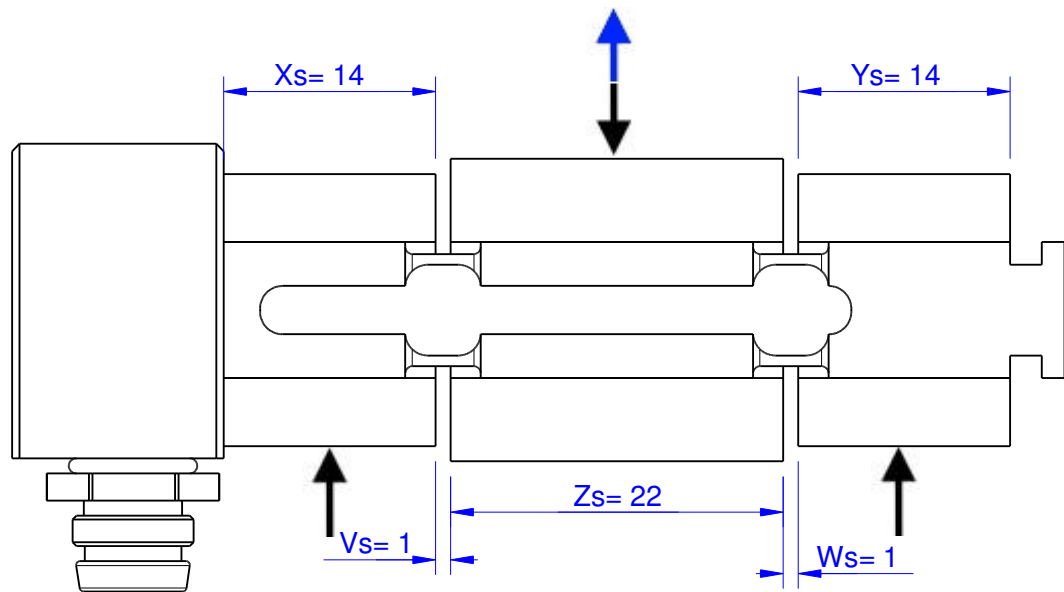
MB786 Review: A

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)



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Phone: +49 (0) 3843-855555  
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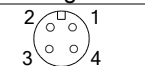
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# Output Signal & Wiring

MB786 Review: A

## Analog Output mV/V (S1)

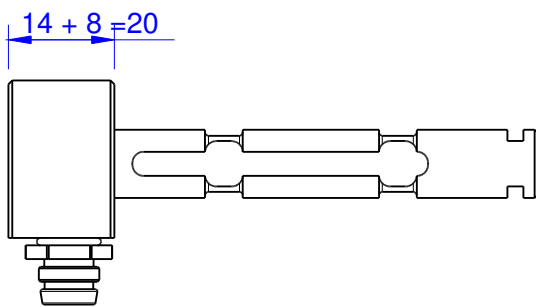
Electrical Data		
Rated Output	mV/V@F.S.	1
Zero Balance	mV/V	±0,05
Excitation (Maximum)	Volt	10
Input Resistance	Ohm	1200±200
Output Resistance	Ohm	1010±10
Insulating Resistance	GOhm	>5

Wiringcode: WC64		Connectortype: M8 (male)			
	Excitation (+)	Excitation (-)	Bridge (+)	Bridge (-)	
	Pin 1	Pin 2	Pin 3	Pin 4	

Ordernumber Add-On:  
MBxxx-x-S1-x


## Integrated Amplifier

The head of the loadpin becomes **8mm** longer with integrated amplifier.



## Analog Output 1V..10V (U1)\*


Electrical Data U1		
Output @ 0kN	V	1±0,2
Output @ F.S.	V	10±0,2
Supply Voltage	V	24±2
Current Consumption	mA	25 (@ 24V)
Bandwidth	kHz	2,2±0,2

Wiringcode: WC49		Connectortype: M8 (male)		
	Supply (+)	GND	Output	
	Pin 1	Pin 3	Pin 4	

Ordernumber Add-On:  
MBxxx-x-U1-x

## Analog Output 4..20mA (I1)\*

Electrical Data I1		
Output @ 0kN	mA	4±0,5
Output @ F.S.	mA	20±0,5
Supply Voltage	V	24±2
Current Consumption	mA	45 (@ 24V)
Bandwidth	kHz	2,2±0,2

Wiringcode: WC49		Connectortype: M8 (male)		
	Supply (+)	GND	Output	
	Pin 1	Pin 3	Pin 4	

Ordernumber Add-On:  
MBxxx-x-I1-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.

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