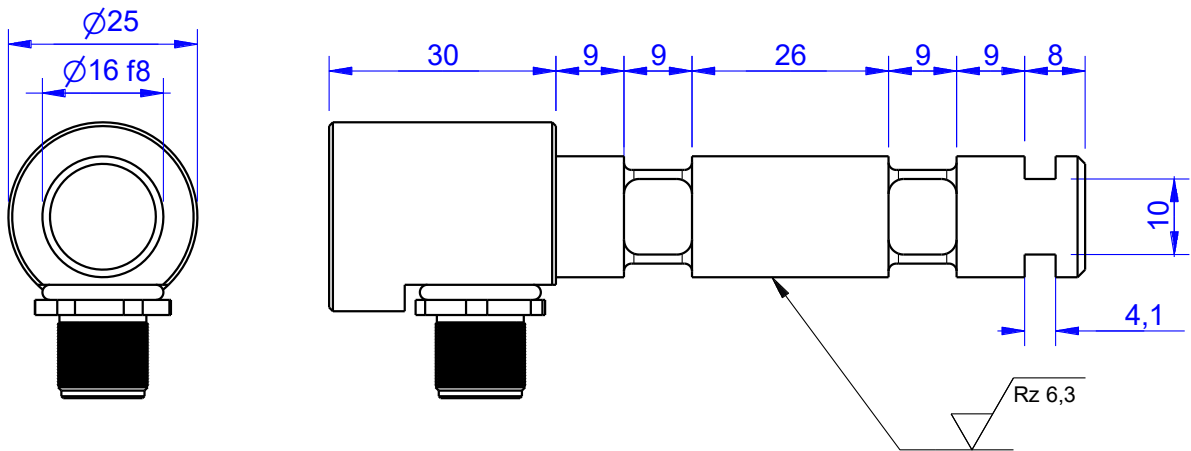


# MB1922

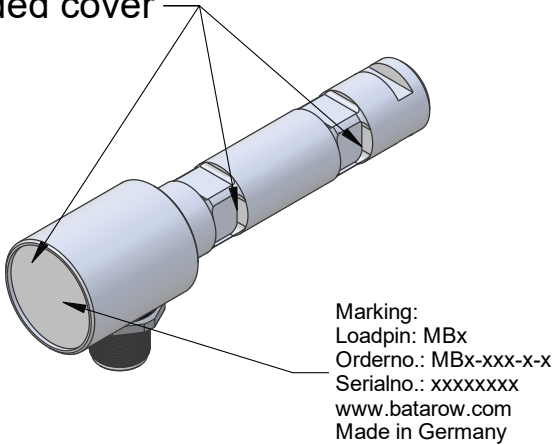
Load Pin

## Content of Loadpin Datasheet

Page 1 ... General  
Page 2 ... Mounting Situation  
Page 3 ... Output Signal & Wiring



Laser welded cover

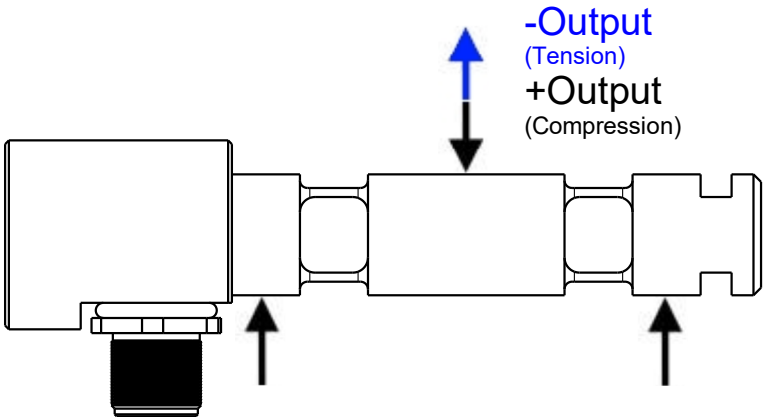


| Ordernumber     | Capacity [kN]<br>(F.S.) | Uncertainty [kN]<br>(k=2) | Review |
|-----------------|-------------------------|---------------------------|--------|
| MB1922-1,5-x-A* | 1,5                     | $\pm 0,0075$              | A      |
| MB1922-5-x-A    | 5                       | $\pm 0,0250$              | A      |
| MB1922-8-x-A    | 8                       | $\pm 0,0040$              | A      |
| MB1922-10-x-A   | 10                      | $\pm 0,0500$              | A      |
| MB1922-12-x-A   | 12                      | $\pm 0,0600$              | A      |

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

### Specifications:

| Dimension / Material   |              |                 |
|------------------------|--------------|-----------------|
| Material               |              | Stainless Steel |
| Protection class       |              | IP 68           |
| Hardness (load area)   | HRC          | 40..45          |
| <b>Mechanical Data</b> |              |                 |
| Safe Load Limit        | % of F.S.    | 150             |
| Breaking Load          | % of F.S.    | 300             |
| <b>Precision</b>       |              |                 |
| 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. | $\pm 0,05$      |
| <b>Temperature</b>     |              |                 |
| Compensated Temp.      | °C           | -10...+60       |
| Operating Temp.        | °C           | -20...+70       |



# Mounting Situation

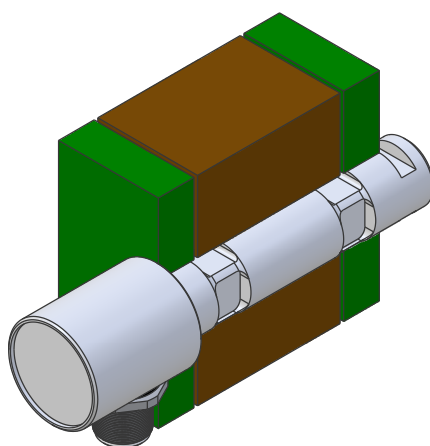
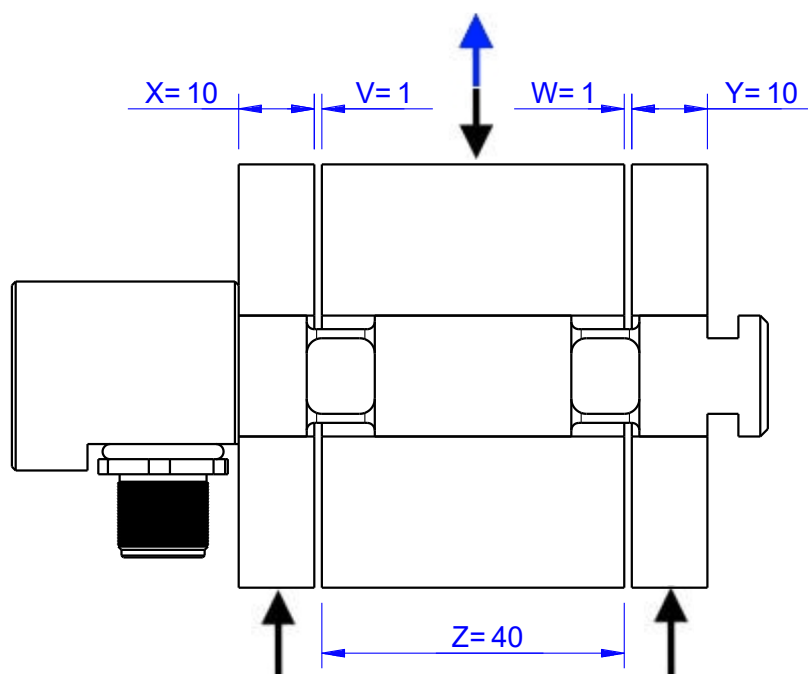
MB1922 Review: A

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)



# Output Signal & Wiring

MB1922 Review: A

## Analog Output mV/V (S1)

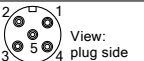
| Electrical Data       |           |         |
|-----------------------|-----------|---------|
| Rated Output          | mV/V@F.S. | 1       |
| Zero Balance          | mV/V      | ±0,05   |
| Excitation (Maximum)  | Volt      | 10      |
| Input Resistance      | Ohm       | 450±100 |
| Output Resistance     | Ohm       | 352±2   |
| Insulating Resistance | GOhm      | >5      |

|                                                                                   |                         |                           |                     |                     |  |
|-----------------------------------------------------------------------------------|-------------------------|---------------------------|---------------------|---------------------|--|
| Wiringcode: WC58                                                                  |                         | Connectortype: M12 (male) |                     |                     |  |
|  | Excitation (+)<br>Pin 1 | Excitation (-)<br>Pin 2   | Bridge (+)<br>Pin 3 | Bridge (-)<br>Pin 4 |  |

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

## Analog Output 0V..10V (U1)\*

| Electrical Data U1  |     |            |
|---------------------|-----|------------|
| Output @ 0kN        | V   | 0          |
| Output @ F.S.       | V   | 10         |
| Supply Voltage      | V   | 14..28     |
| Current Consumption | mA  | 25 (@ 24V) |
| Bandwidth           | kHz | 1          |

|                                                                                   |                     |                                |              |               |                |
|-----------------------------------------------------------------------------------|---------------------|--------------------------------|--------------|---------------|----------------|
| Wiringcode: WC46                                                                  |                     | Connectortype: M12 (male plug) |              |               |                |
|  | Supply (+)<br>Pin 1 | Output<br>Pin 4                | GND<br>Pin 3 | Tara<br>Pin 2 | Scale<br>Pin 5 |

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

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

| Electrical Data I1  |     |            |
|---------------------|-----|------------|
| Output @ 0kN        | mA  | 4          |
| Output @ F.S.       | mA  | 20         |
| Supply Voltage      | V   | 9..28      |
| Current Consumption | mA  | 45 (@ 24V) |
| Bandwidth           | kHz | 1          |

|                                                                                   |                     |                                |              |               |                |
|-----------------------------------------------------------------------------------|---------------------|--------------------------------|--------------|---------------|----------------|
| Wiringcode: WC46                                                                  |                     | Connectortype: M12 (male plug) |              |               |                |
|  | Supply (+)<br>Pin 1 | Output<br>Pin 4                | GND<br>Pin 3 | Tara<br>Pin 2 | Scale<br>Pin 5 |

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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