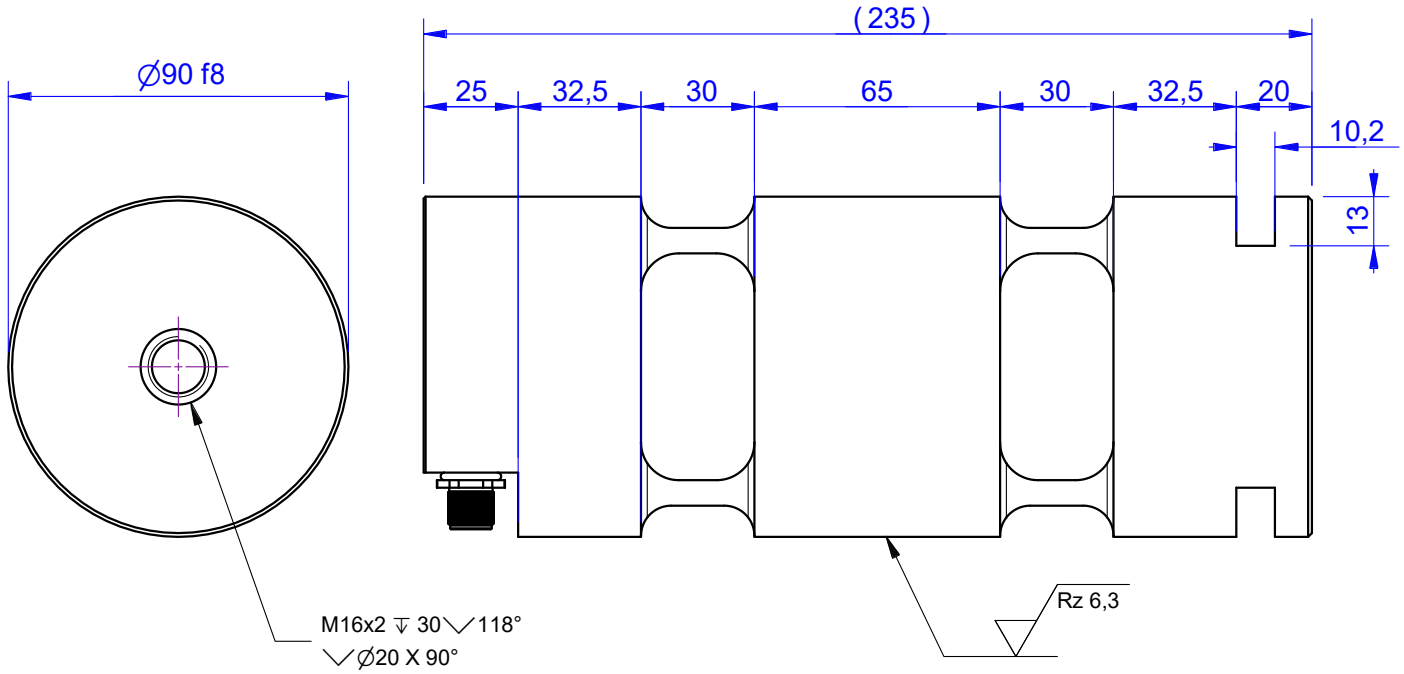
# MB261(CBA90)

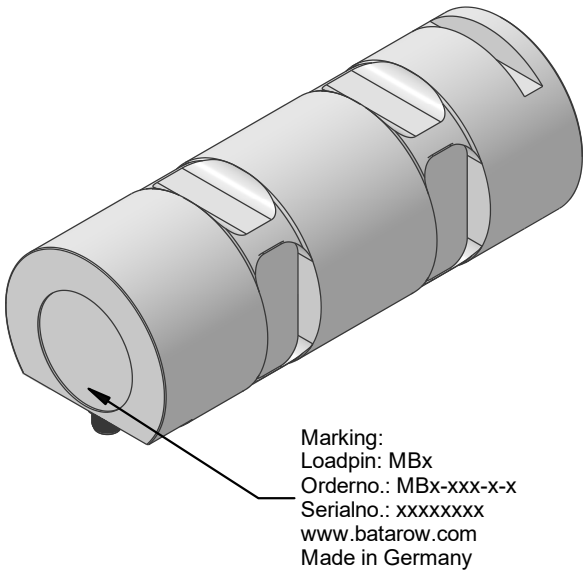
Load Pin

## Content of Loadpin Datasheet



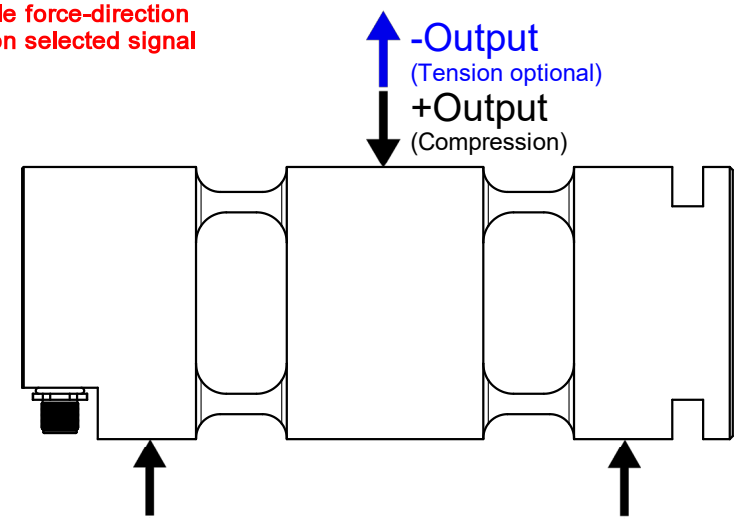



| Ordernumber | Capacity [kN] (F.S.) | Uncertainty [kN] (k=2) | Review |
|---|---|---|---|
| MB261-100-x-C | 100 | ± 0,50 | C |
| MB261-400-x-C* | 400 | ± 2,00 | C |
| MB261-600-x-C | 600 | ± 3,00 | C |
| MB261-750-x-C | 750 | ± 3,75 | C |




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

**Attention:**
**Measurable force-direction depends on selected signal**




## Specifications:

| | | |
|---|---|---|
| **Dimension / Material** | | |
| Material | | Stainless Steel |
| Protection class | | IP 66 |
| Hardness (load area) | HRC | 40..45 |
| **Mechanical Data** | | |
| Safe Load Limit | % of F.S. | 150 |
| Breaking Load | % of F.S. | 300 |
| **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 |


**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

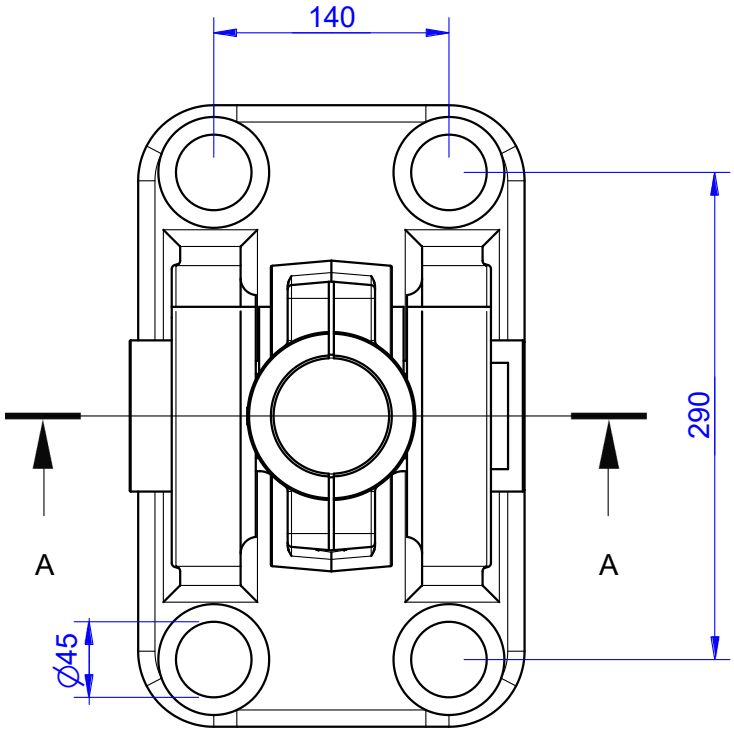
MB261(CBA90) Review: C

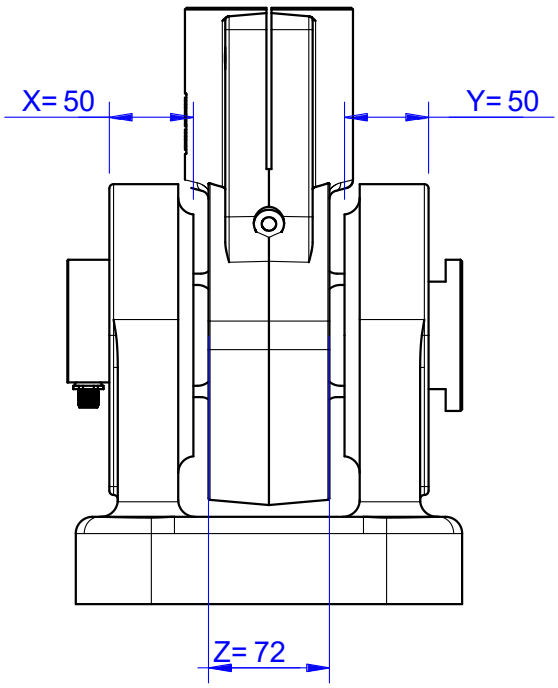
Bore fit of mounting situation: H7

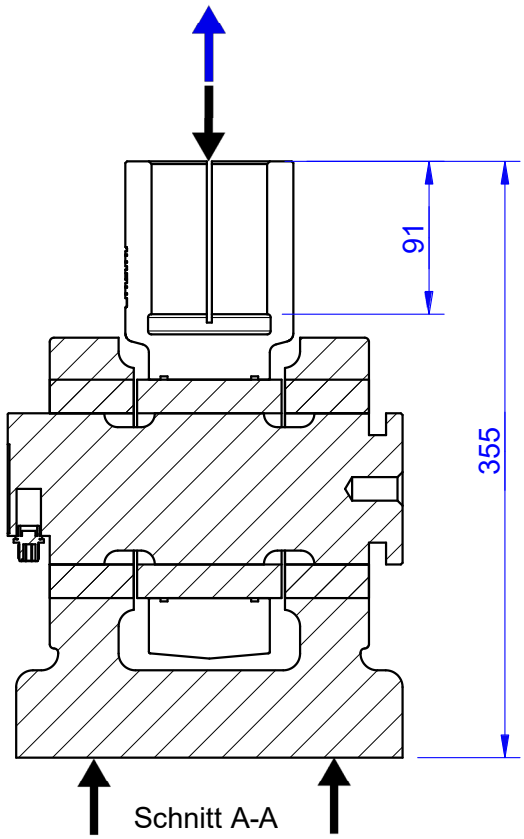
## Configuration

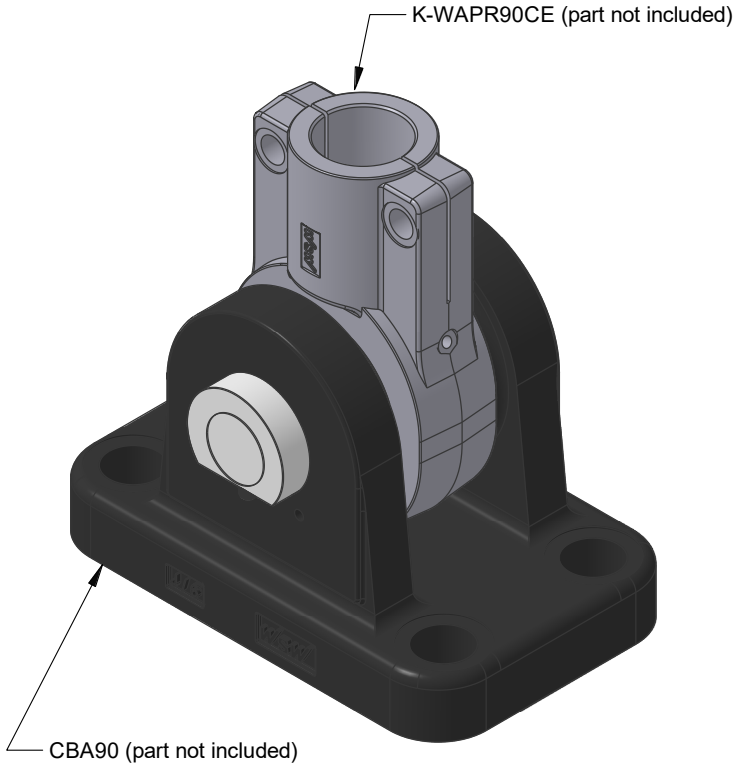
possible mounting situation / customer mounting could vary

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





**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

# Output Signal & Wiring

MB261(CBA90) Review: C

## S1 - Analog Output mV/V

| Electrical Data S1 | | |
|---|---|---|
| Rated Output @ F.S. | mV/V | 1 |
| Zero Balance | mV/V | ±0,05 |
| Supply Voltage Maximum | V | 10 |
| Input Resistance | Ω | 450±100 |
| Output Resistance | Ω | 352±2 |
| Insulating Resistance | GΩ | >5 |

| Wiringcode: WC58 | | |  View: plug side |
|---|---|---|---|
| Connector: M12-4P (male plug) | | | |
| Supply (US+) | Pin 1 | Output (UD+) | Pin 3 |
| Supply (US-) | Pin 2 | Output (UD-) | Pin 4 |

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

## U1 - Analog Output 0...10 V (only +Output / compression*)

| Electrical Data U1 | | |
|---|---|---|
| Output @ 0 kN | V | 0 |
| Output @ F.S. | V | 10 |
| Supply Voltage | V | 14...28 |
| Current Consumtion | mA | 20 (@ 24V) |
| Bandwidth | Hz | 1000 |

| Wiringcode: | WC46 | |  View: plug side |
|---|---|---|---|
| Connector: | M12-5P (male plug) | | |
| Integrated Amplifier: GSV13 | | | |
| Supply (+) | Pin 1 | Tara | Pin 2 |
| Ground (-) | Pin 3 | Scale | Pin 5 |
| Output | Pin 4 | | |

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

## I1 - Analog Output 4...20 mA (only +Output / compression*)

| Electrical Data I1 | | |
|---|---|---|
| Output @ 0 kN | mA | 4 |
| Output @ F.S. | mA | 20 |
| Supply Voltage | V | 9...28 |
| Current Consumtion | mA | 20 (@ 24V) |
| Bandwidth | Hz | 1000 |

| Wiringcode: | WC46 | |  View: plug side |
|---|---|---|---|
| Connector: | M12-5P (male plug) | | |
| Integrated Amplifier: GSV13 | | | |
| Supply (+) | Pin 1 | Tara | Pin 2 |
| Ground (-) | Pin 3 | Scale | Pin 5 |
| Output | Pin 4 | | |

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

## U20 - Analog & Switch Output 0...10 V (only +Output / compression*)

| Electrical Data U20 | | |
|---|---|---|
| Output @ 0 kN | V | 0 |
| Output @ F.S. | V | 10 |
| Supply Voltage | V | 14...28 |
| Current Consumtion | mA | 22 (@ 24V) |
| Bandwidth | Hz | 5000 |
| Switching Output | | Open Collector |
| max. Switching current | mA | 100 |

| Wiringcode: | WC39 | |  View: plug side |
|---|---|---|---|
| Connector: | M12-8P (male plug) | | |
| Integrated Amplifier: GSV6 | | | |
| Supply (+) | Pin 1 | Scale | Pin 5 |
| Ground (-) | Pin 3 | Threshold | Pin 6 |
| Output | Pin 4 | Output Ground | Pin 7 |
| Tara | Pin 2 | not connected | Pin 8 |

Ordernumber Add-On:
MBxxx-x-U20-x

**Configuration:**
Threshold ON: 90% F.S.
Threshold OFF: 88% F.S.

## I20 - Analog & Switch Output 4...20 mA (only +Output / compression*)

| Electrical Data I20 | | |
|---|---|---|
| Output @ 0 kN | mA | 4 |
| Output @ F.S. | mA | 20 |
| Supply Voltage | V | 9...28 |
| Current Consumtion | mA | 22 (@ 24V) |
| Bandwidth | Hz | 5000 |
| Switching Output | | Open Collector |
| max. Switching current | mA | 100 |

| Wiringcode: | WC39 | |  View: plug side |
|---|---|---|---|
| Connector: | M12-8P (male plug) | | |
| Integrated Amplifier: GSV6 | | | |
| Supply (+) | Pin 1 | Scale | Pin 5 |
| Ground (-) | Pin 3 | Threshold | Pin 6 |
| Output | Pin 4 | Output Ground | Pin 7 |
| Tara | Pin 2 | not connected | Pin 8 |

Ordernumber Add-On:
MBxxx-x-I20-x

**Configuration:**
Threshold ON: 90% F.S.
Threshold OFF: 88% F.S.

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