

# MB262(CBA100)

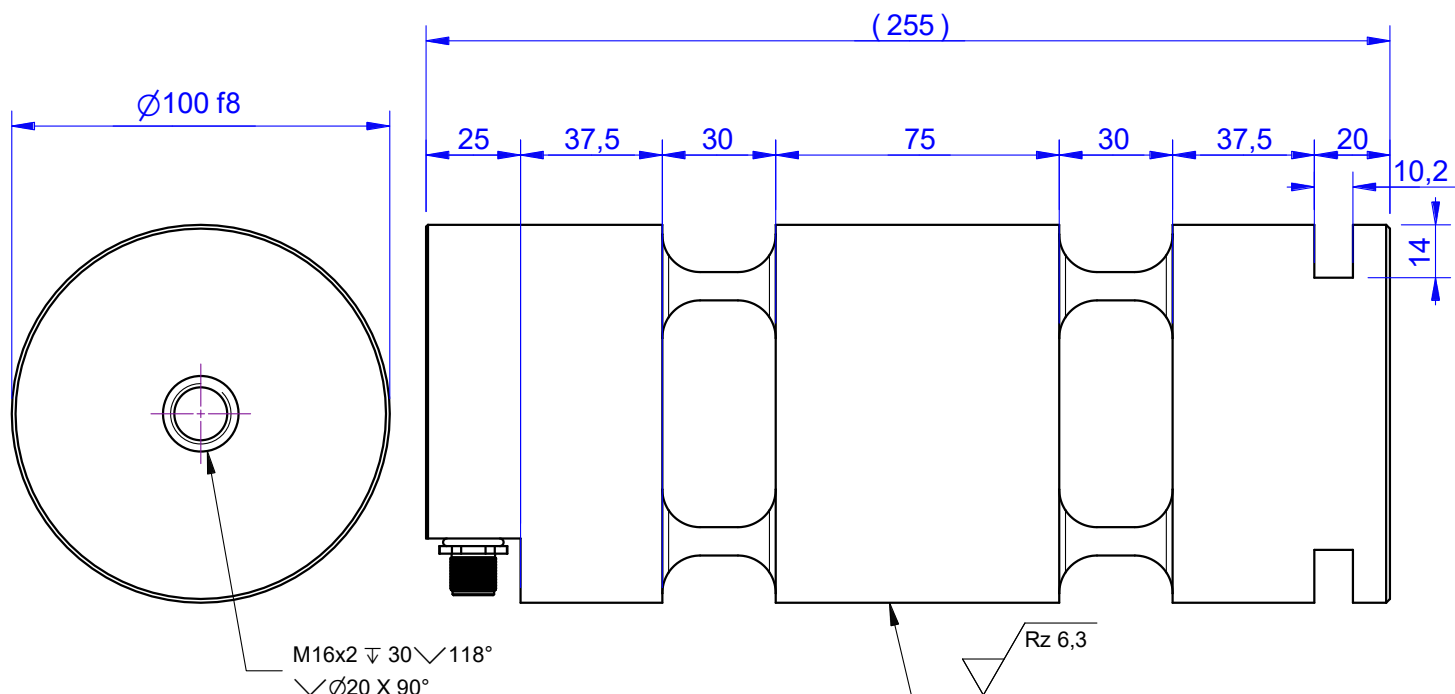
Load Pin

## Content of Loadpin Datasheet

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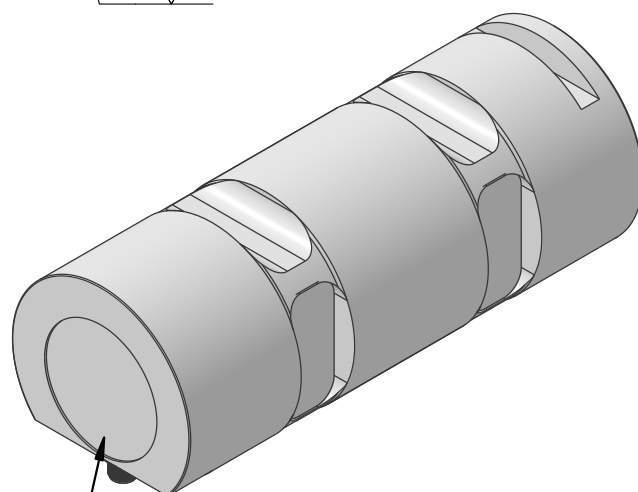
Page 3 ... Output Signal & Wiring



| Ordernumber    | Capacity [kN]<br>(F.S.) | Uncertainty [kN]<br>(k=2) | Review |
|----------------|-------------------------|---------------------------|--------|
| MB262-100-x-B  | 100                     | ± 0,50                    | B      |
| MB262-250-x-B  | 250                     | ± 1,25                    | B      |
| MB262-500-x-B* | 500                     | ± 2,50                    | B      |
| MB252-1000-x-B | 1000                    | ± 5,00                    | B      |

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

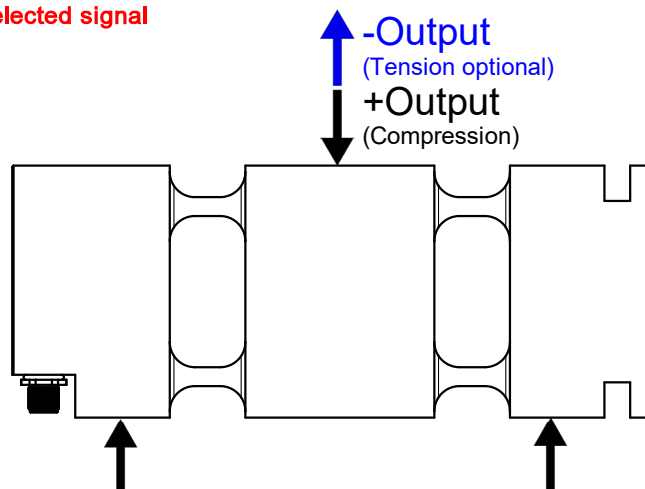
**Attention:**  
Measurable force-direction  
depends on selected signal



Marking:  
Loadpin: MBx  
Orderno.: MBx-xxx-x-x  
Serialno.: xxxxxxxx  
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## Specifications:

| Dimension / Material   |              |                 |
|------------------------|--------------|-----------------|
| Material               |              | Stainless Steel |
| Protection class       |              | IP 66           |
| 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.    | ±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       |



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# Mounting Situation

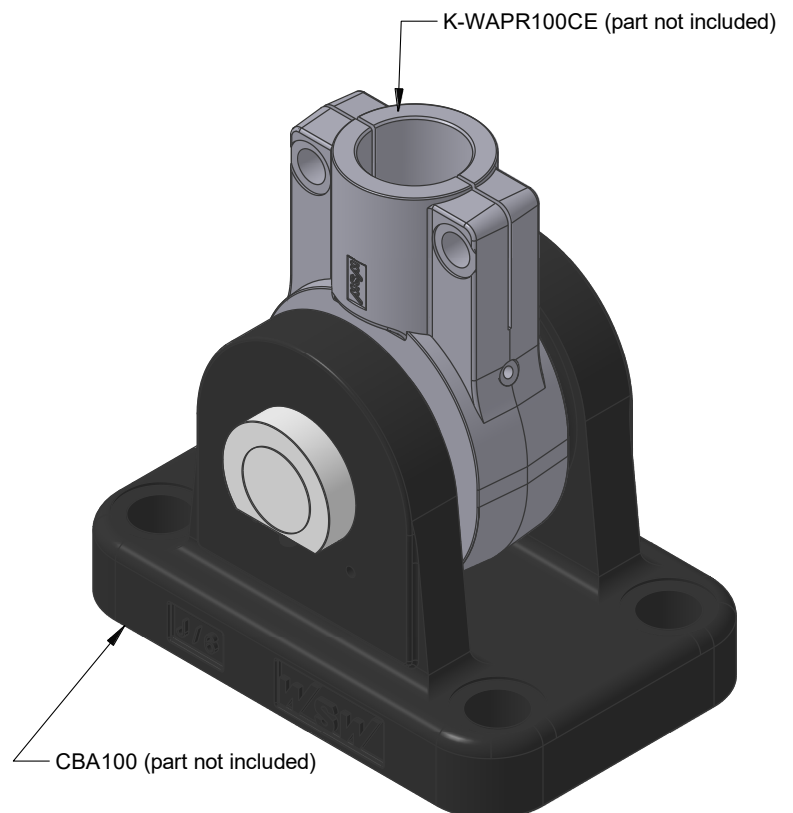
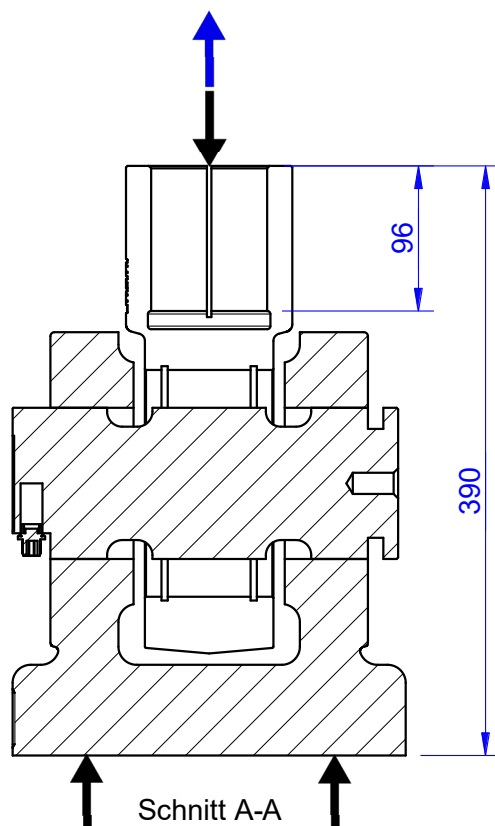
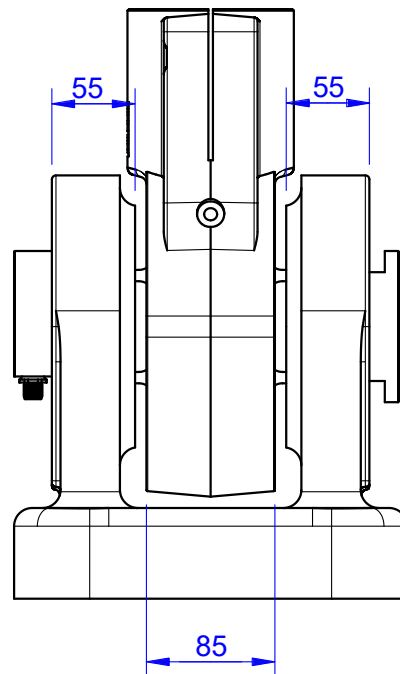
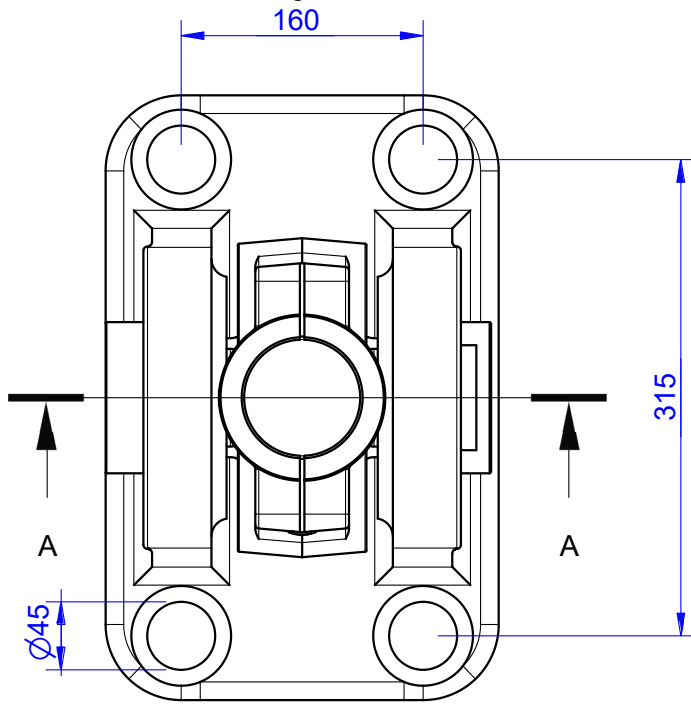
MB262(CBA100) Review: B

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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# Output Signal & Wiring

MB262(CBA100) Review: B

## 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:<br>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 Consumption | mA | 20 (@ 24V) |
| Bandwidth           | Hz | 1000       |

|                               |       |       |                                                                                     |                    |
|-------------------------------|-------|-------|-------------------------------------------------------------------------------------|--------------------|
| Wiringcode: WC46              |       |       |  | View:<br>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 Consumption | mA | 20 (@ 24V) |
| Bandwidth           | Hz | 1000       |

|                               |       |       |                                                                                     |                    |
|-------------------------------|-------|-------|-------------------------------------------------------------------------------------|--------------------|
| Wiringcode: WC46              |       |       |  | View:<br>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 Consumption    | mA | 22 (@ 24V)     |
| Bandwidth              | Hz | 5000           |
| Switching Output       |    | Open Collector |
| max. Switching current | mA | 100            |

|                               |       |               |                                                                                       |                    |
|-------------------------------|-------|---------------|---------------------------------------------------------------------------------------|--------------------|
| Wiringcode: WC39              |       |               |  | View:<br>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 Consumption    | mA | 22 (@ 24V)     |
| Bandwidth              | Hz | 5000           |
| Switching Output       |    | Open Collector |
| max. Switching current | mA | 100            |

|                               |       |               |                                                                                       |                    |  |  |
|-------------------------------|-------|---------------|---------------------------------------------------------------------------------------|--------------------|--|--|
| Wiringcode: WC39              |       |               |  | View:<br>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...9V or ±10V versions.

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