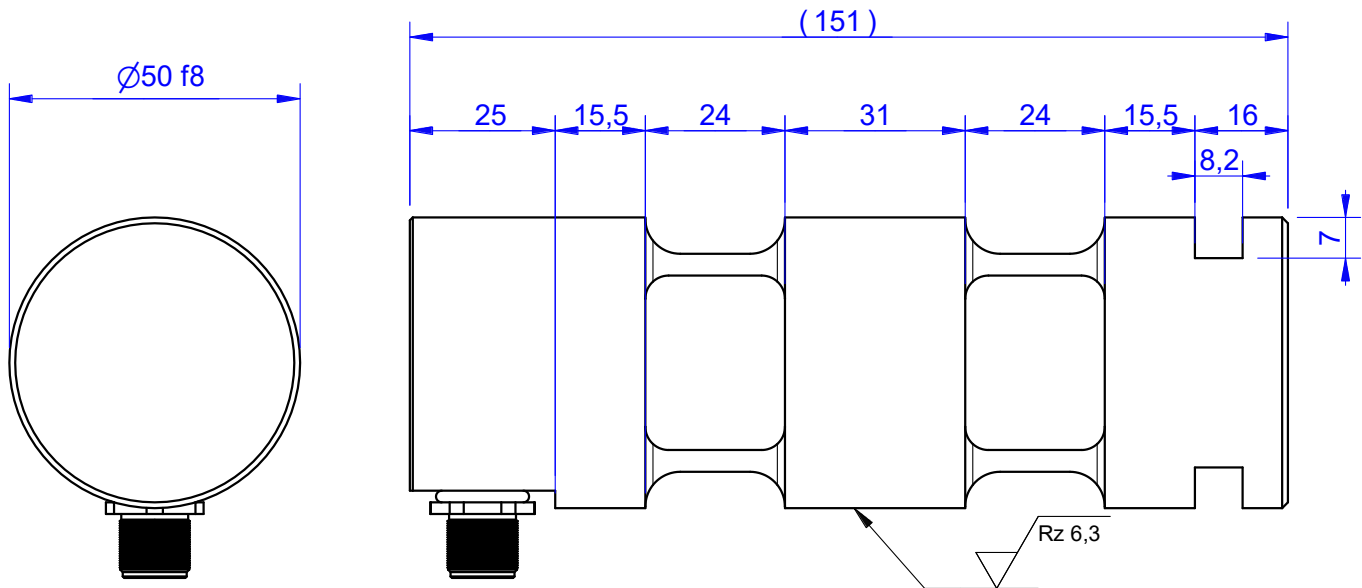


MB257(CBA50)

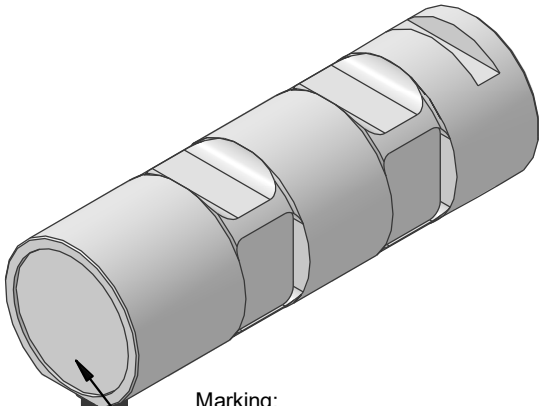
Load Pin

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
MB257-10-x-F	10	± 0,05	F
MB257-50-x-F	50	± 0,25	F
MB257-100-x-F*	100	± 0,50	F
MB257-200-x-F	200	± 1,00	F



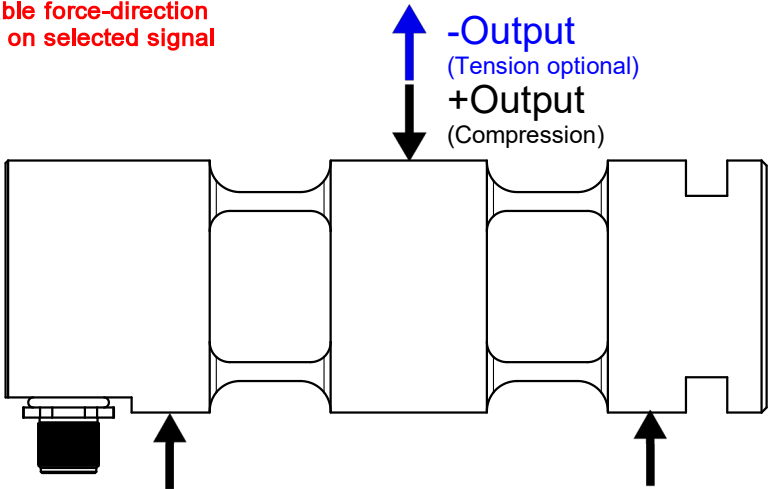
Marking:
Loadpin: MBx
Orderno.: MBx-xxx-x-x
Serialno.: xxxxxxxx
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* above showed version
fixed dimensions don't change at other capacity

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

Attention:
Measurable force-direction
depends on selected signal



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

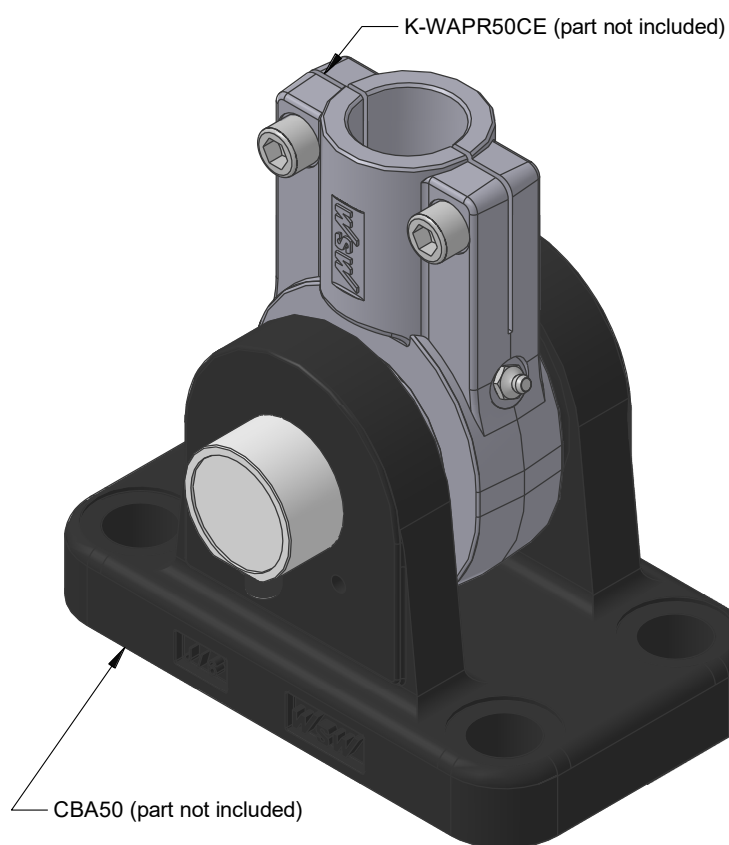
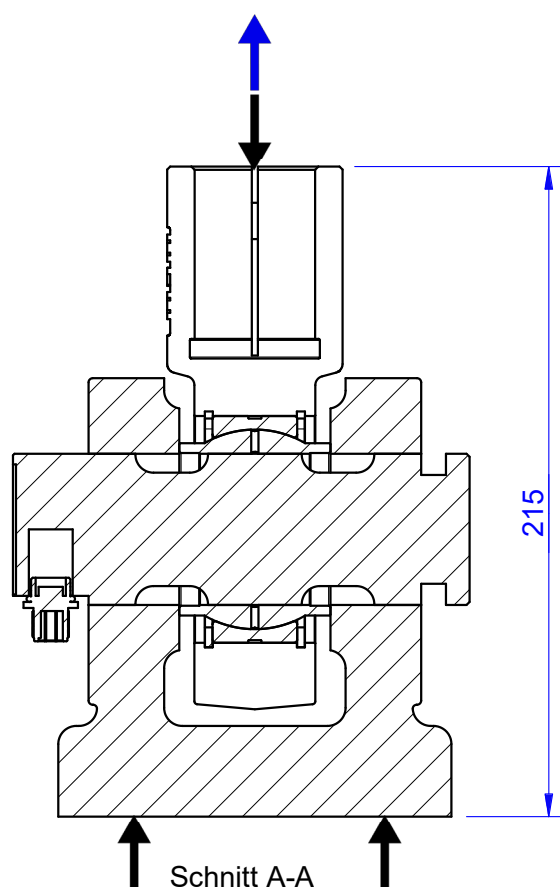
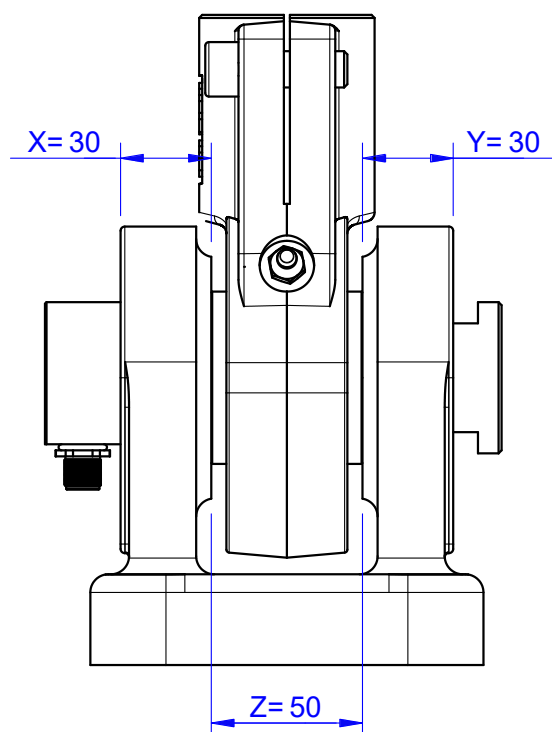
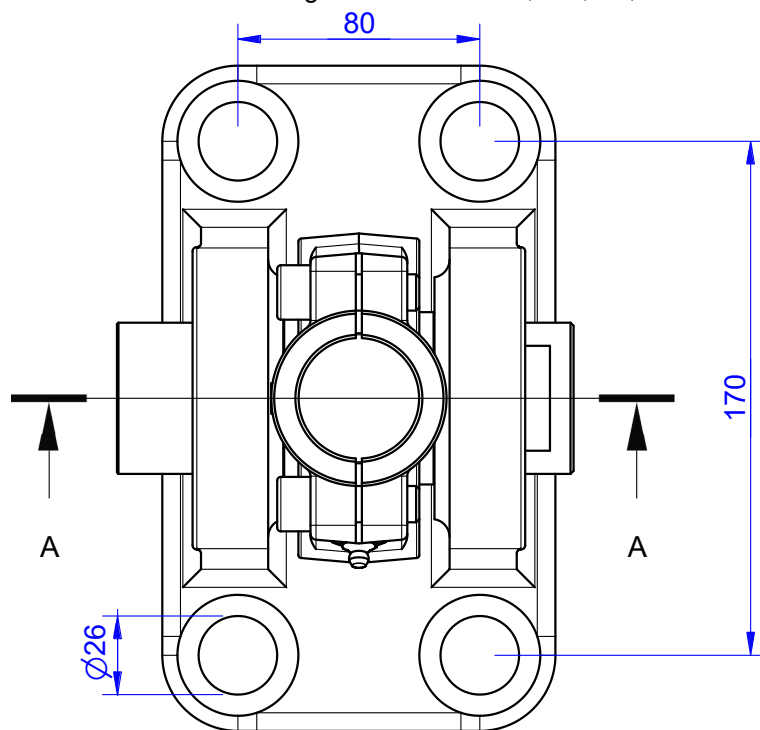
MB257(CBA50) Review: F

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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Batarow Sensorik GmbH
Gewerbegebiet 4
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Mail: info@batarow.com
Phone: +49 (0) 3843-855555
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Output Signal & Wiring

MB257(CBA50) Review: F

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 Consumption	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 Consumption	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 Consumption	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 Consumption	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...9V or ±10V versions.

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