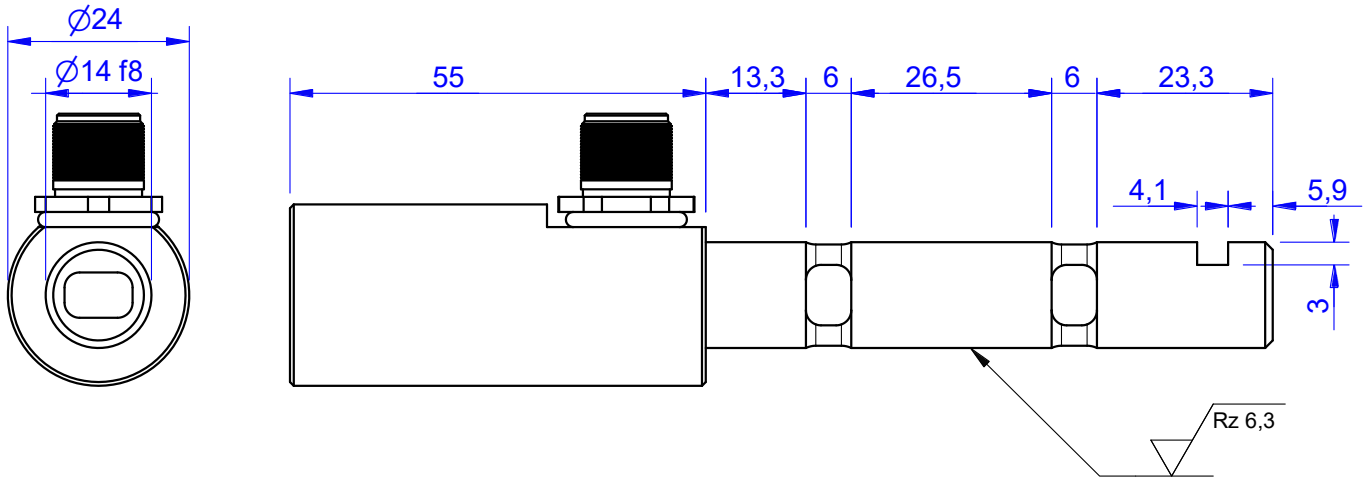
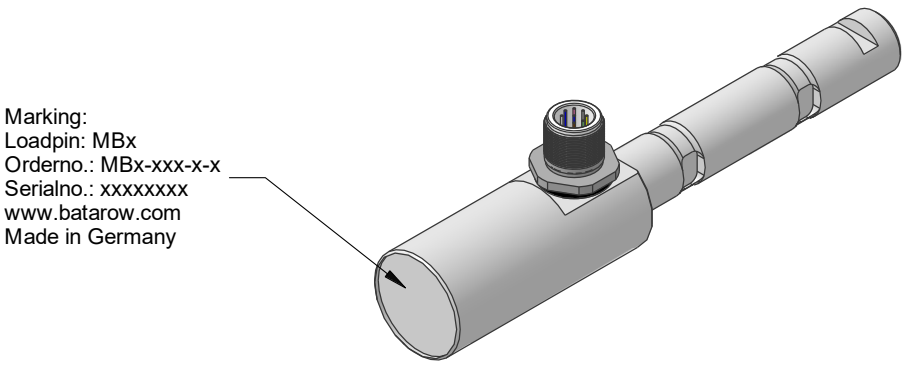
MB2032
Load Pin

Content of Loadpin Datasheet

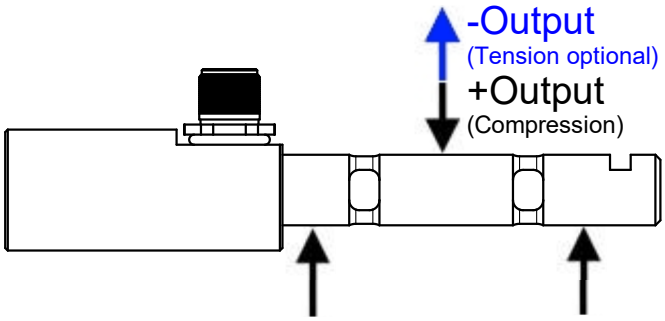




Ordernumber	Capacity [kN] (F.S.)	Uncertainty [kN] (k=2)	Review
MB2032-1-x-B	1	± 0,005	B
MB2032-2-x-B	2	± 0,010	B
MB2032-5-x-B	5	± 0,025	B
MB2032-8-x-B	8	± 0,040	B
MB2032-10-x-B*	10	± 0,050	B

* 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.	120
Breaking Load	% of F.S.	250
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

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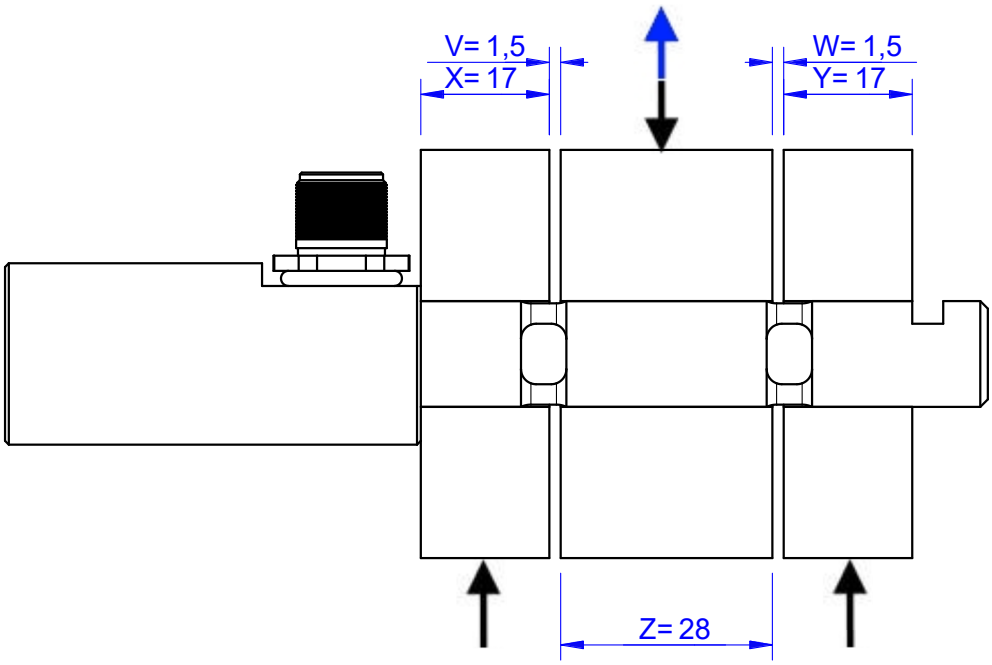
Mounting Situation

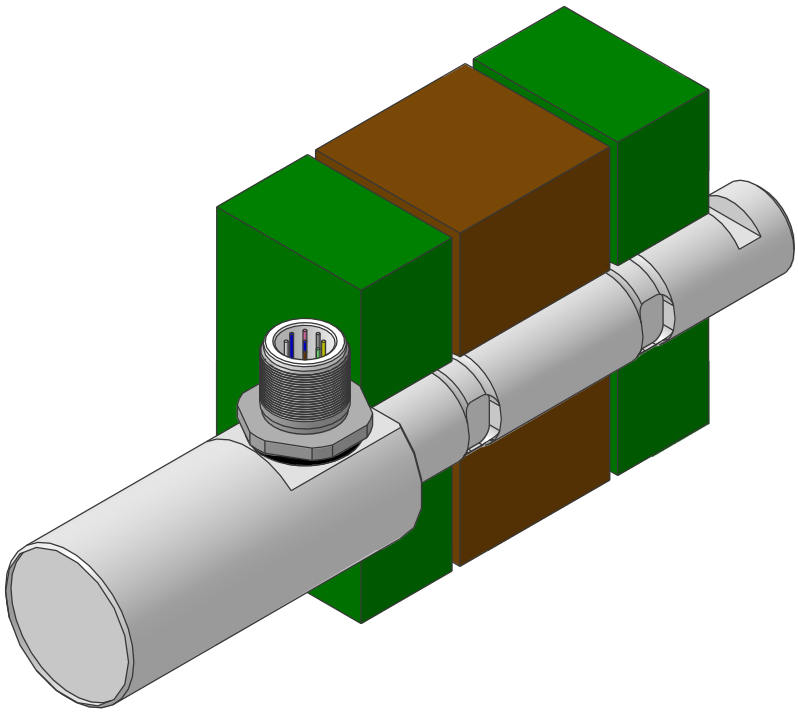
MB2032 Review: B

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

MB2032 Review: B

Analog Output mV/V (S1)

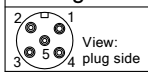
Electrical Data		
Rated Output	mV/V@F.S.	1
Zero Balance	mV/V	±0,05
Exitation (Maximum)	Volt	10
Input Resistance	Ohm	450±100
Output Resistance	Ohm	352±2
Insulating Resistance	GOhm	>5

Wiringcode: WC58		Connectortype: M12 (male)		
	Exitation (+)	Exitation (-)	Bridge (+)	Bridge (-)
	Pin 1	Pin 2	Pin 3	Pin 4

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

Analog Output 0V..10V (U1) (only + output compression*)

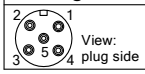
Electrical Data U1		
Output @ 0kN	V	0
Output @ F.S.	V	10
Supply Voltage	V	14..28
Current Consumtion	mA	25 (@ 24V)
Bandwidth	kHz	1

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

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

Analog Output 4..20mA (I1) (only + output compression*)

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

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

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

Analog & Switch Output 0V..10V (U20) (only + output compression*)

Electrical Data U20		
Output @ 0kN	V	0
Output @ F.S.	V	10
Supply Voltage	V	9..28
Current Consumtion	mA	15 (@ 24V)
Bandwidth	Hz	2000
Switching Output		Open Collector
max. Switching current	mA	100

Wiringcode: WC39			
Integrated Amplifier: GSV-6			
Cabeling: M12 Male Socket / Flanschstecker (male)			
Supply(+)	Pin 1	Scale	Pin 5
Ground (-)	Pin 3	Threshold	Pin 6
Output	Pin 4	Output Ground	Pin 7
Tare	Pin 2		

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

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

Analog & Switch Output 4..20mA (I20) (only + output compression*)

Electrical Data I20		
Output @ 0kN	mA	4
Output @ F.S.	mA	20
Supply Voltage	V	9..28
Current Consumtion	mA	35 (@ 24V)
Bandwidth	Hz	2000
Switching Output		Open Collector
max. Switching current	mA	100

Wiringcode: WC39			
Integrated Amplifier: GSV-6			
Cabeling: M12 Male Socket / Flanschstecker (male)			
Supply(+)	Pin 1	Scale	Pin 5
Ground (-)	Pin 3	Threshold	Pin 6
Output	Pin 4	Output Ground	Pin 7
Tare	Pin 2		

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.

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