

MB1778

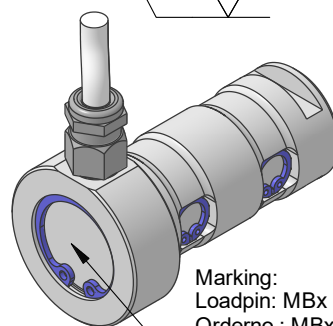
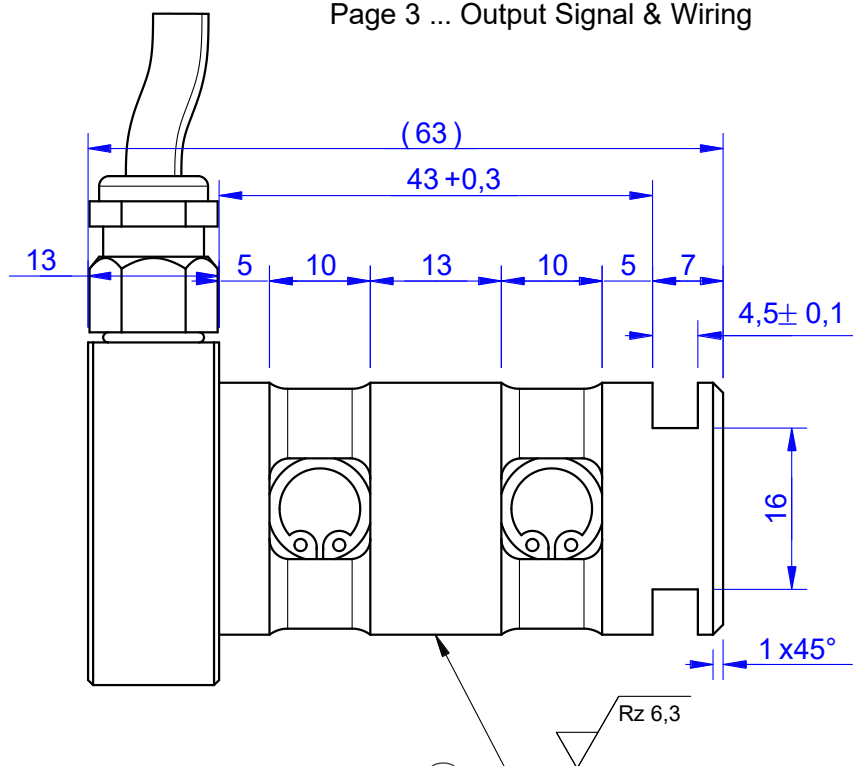
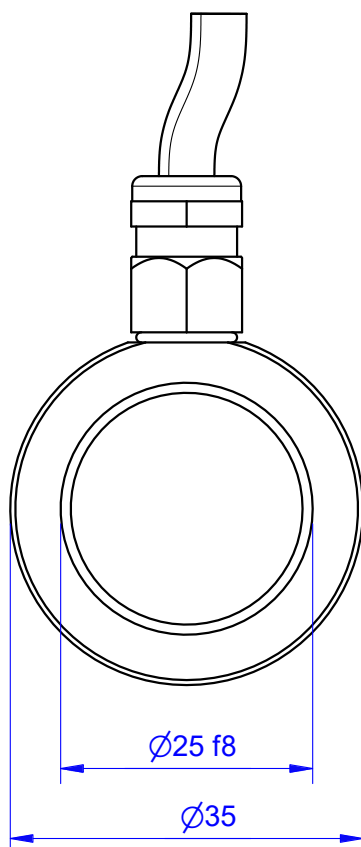
Load Pin

Content of Loadpin Datasheet

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Marking:
Loadpin: MBx
Orderno.: MBx-xxx-x-x
Serialno.: xxxxxxxx
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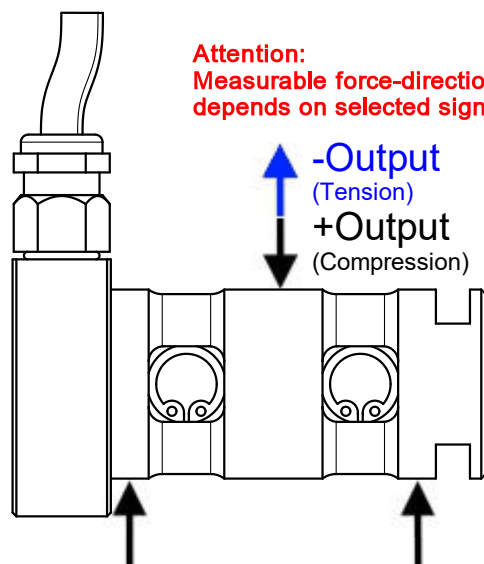
Ordernumber	Capacity [kN] (F.S.)	Uncertainty [kN] (k=2)	Review
MB1778-20-x-H	20	± 0,135	H
MB1778-25-x-H	25	± 0,165	H
MB1778-30-x-H	30	± 0,200	H
MB1778-35-x-H	35	± 0,235	H
MB1778-50-x-H*	50	± 0,350	H

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

Specifications:

Dimension / Material		
Material		Stainless Steel
Protection class		IP 67
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	-20...+71
Operating Temp.	°C	-40...+71

Attention:
Measurable force-direction
depends on selected signal



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Mounting Situation

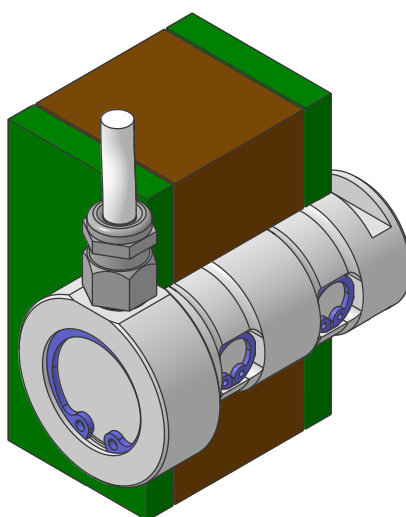
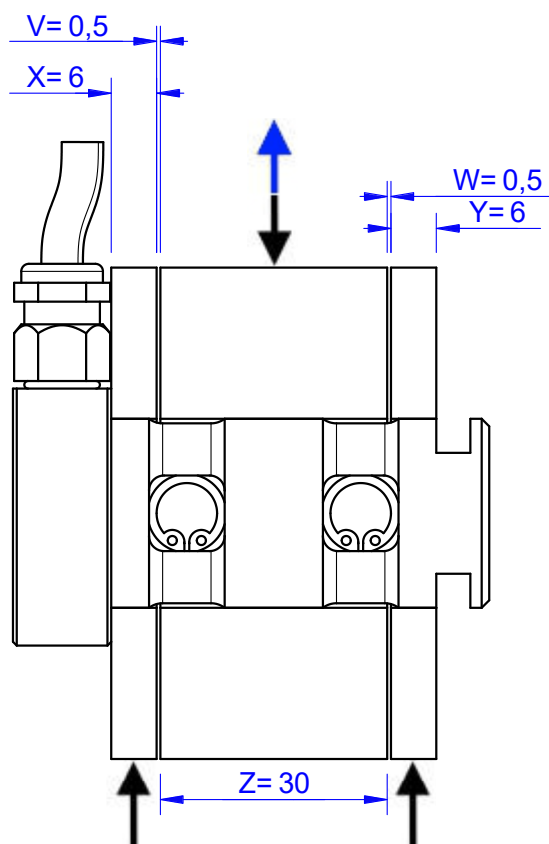
MB1778 Review: H

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

MB1778 Review: H

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: WC52			
Cabeltype: 24-4 PUR (4x0,14)			Length: 3 m
Supply (US+)	brown	Output (UD+)	green
Supply (US-)	white	Output (UD-)	yellow

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	25 (@ 24V)
Bandwidth	Hz	1000

Wiringcode: WC514			
Cabeltype: Unitronic FD CP Plus (5x0,14)			Length: 3 m
Integrated Amplifier: GSV13			
Supply (+)	brown	Tara	yellow
Ground (-)	white	Scale	gray
Output	green		

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	14...28
Current Consumption	mA	45 (@ 24V)
Bandwidth	Hz	1000

Wiringcode: WC514			
Cabeltype: Unitronic FD CP Plus (5x0,14)			Length: 3 m
Integrated Amplifier: GSV13			
Supply (+)	brown	Tara	yellow
Ground (-)	white	Scale	gray
Output	green		

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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Performance Level

MB1778 Review: H

1. Identification:

ISO 13849-1: 2008 Category 1 PL c

2. Classification:

Used standard: DIN EN ISO 13849-1: 2008

Performance Level: Plc

Category: 1

Diagnostic coverage: Low

MTTFd-value: 38,6 years

3. Limits for the operation:

All technical information from datasheet have to be considered.

Deviations lead to loss of safety functions: Attention

Only use the loadpin within the temperature limits of -20° C to +70 ° C

Use the right range of supply voltage

Protect the loadpin of mechanical overload

4. Lifetime

The calculations are based on a lifetime of 20 years in continuous operation with a maximum duty cycles of from 250,000 cycles per year.

5. Error display:

The error display is performed by the undershoot and overshoot of the signal.

Current output:

Error 1: the output current is less 3.5mA

Error 2: the output current is greater 20.5mA