

MB1187

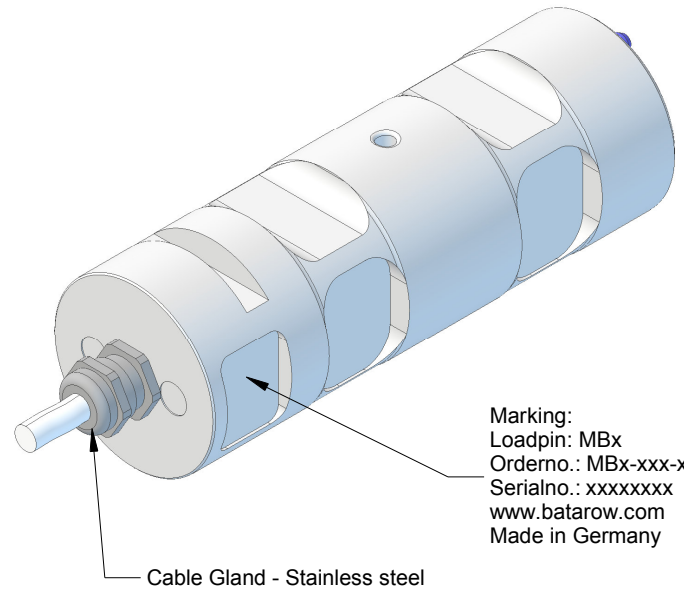
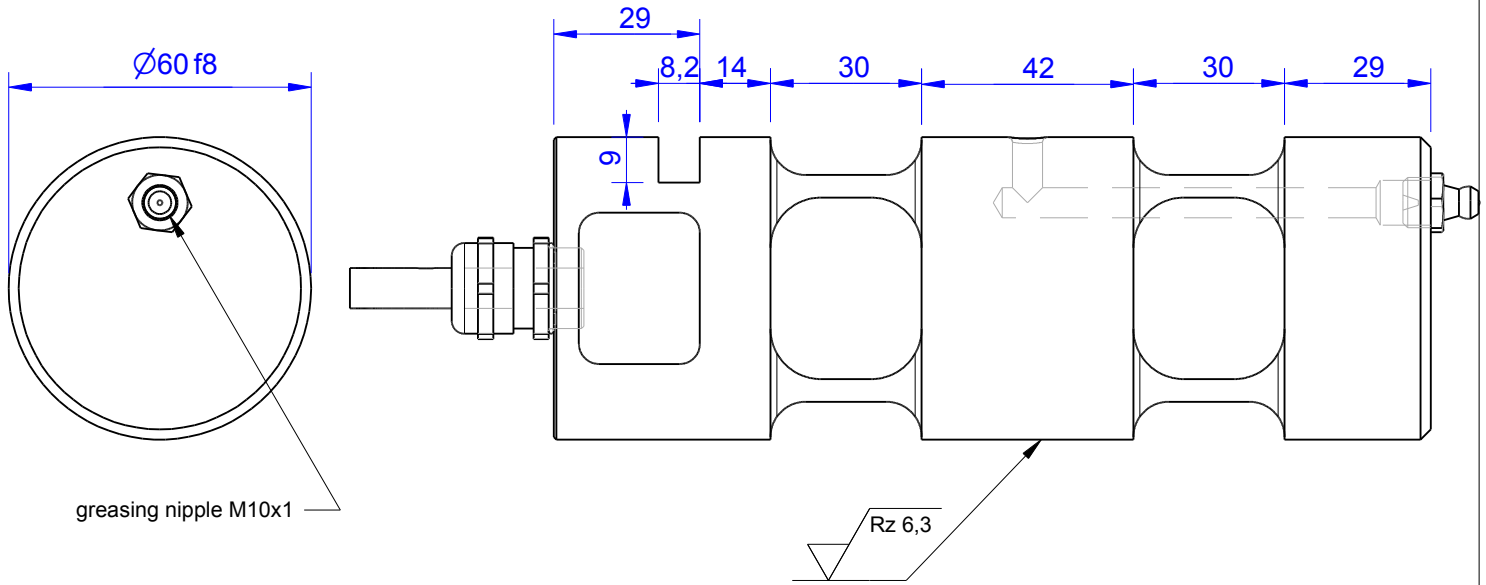
Load Pin

Content of Loadpin Datasheet

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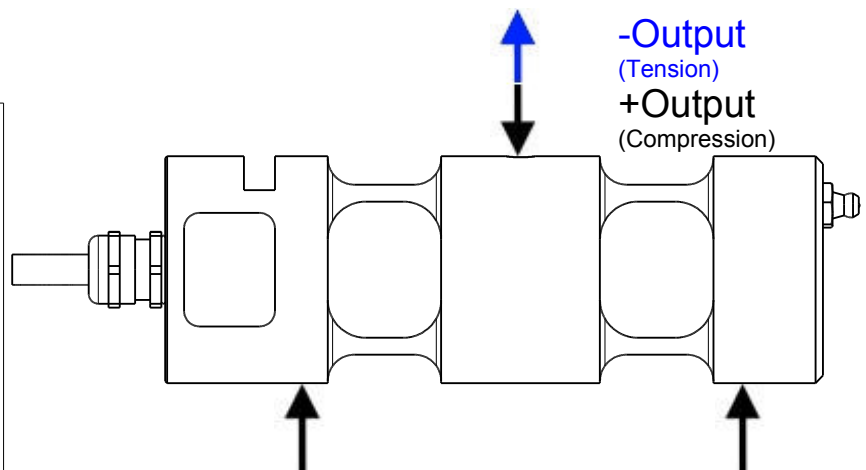


Order-number	Capacity (F.S.)	Uncertainty (k=2)	Review
MB1187-20-x-C	20 kN	$\pm 0,10$ kN	C
MB1187-75-x-C*	75 kN	$\pm 0,40$ kN	C
MB1187-100-x-C	100 kN	$\pm 0,50$ kN	C
MB1187-200-x-C	200 kN	$\pm 1,00$ kN	C
MB1187-350-x-C	350 kN	$\pm 1,8$ kN	C

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

Specifications:

Dimension / Material		
Material		1.4542
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.	$\pm 0,5$
Nonrepeatability	% of F.S.	$\pm 0,25$
Hysteresis	% of F.S.	$\pm 0,2$
Temp. Shift Zero	% of F.S./K.	$\pm 0,05$
Temp. Shift Span	% of F.S./K.	$\pm 0,05$
Temperature		
Compensated Temp.	°C	-10...+60
Operating Temp.	°C	-20...+70



Mounting Situation

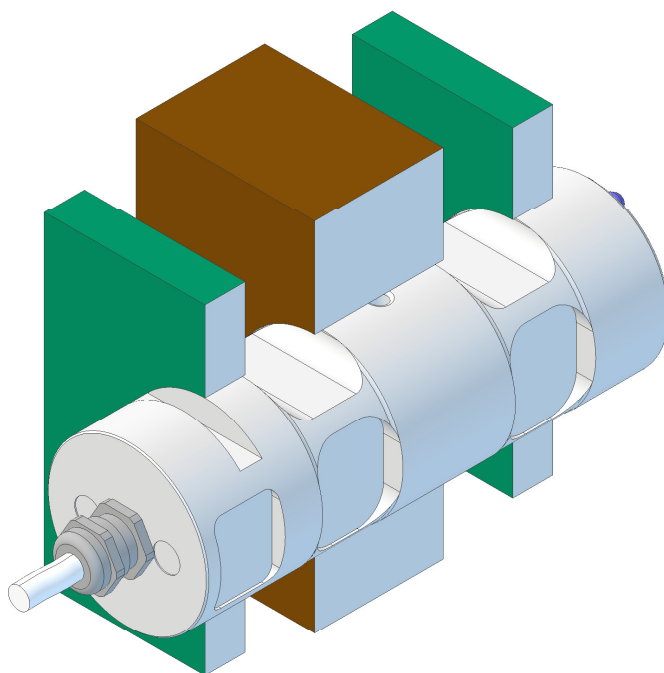
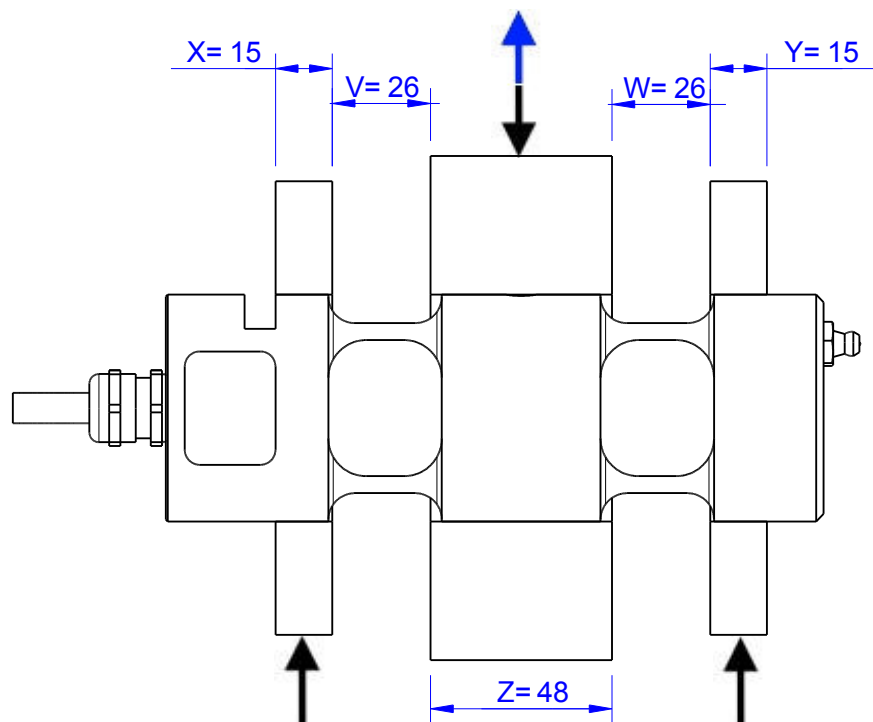
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Bore fit of mounting situation: H7

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

MB1187 Review: C

Analog & Switch Output 4..20mA (I20)*

Configuration Master

Electrical Data I20		
Output @ 0kN	mA	4
Output @ F.S.	mA	20
Supply Voltage	V	11..30
Current Consumption	mA	35 (@ 24V)
Bandwidth	Hz	5000
Switching Output		n.c.
max. Switching current	mA	n.c.

Attention:

The difference between Master and Slave is, that the direction of the output signal has an opposite direction.

Configuration Slave

Electrical Data I20		
Output @ 0kN	mA	20
Output @ F.S.	mA	4
Supply Voltage	V	11..30
Current Consumption	mA	35 (@ 24V)
Bandwidth	Hz	5000
Switching Output		n.c.
max. Switching current	mA	n.c.

Wiringcode: WC515			
integrated Amplifier GSV			
Cabeling: 3m 3x2x0,25 PUR			
Master		Slave	
Supply (+)	brown	Supply (+)	yellow
Ground (-)	white	Ground (-)	grey
Output	green	Output	pink

Ordernumber Add-On:

MBxxx-x-I20-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

MB1187 Review: C

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: 70,5 years (for each channel of the redundant loadpin)

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 $+70^{\circ}\text{C}$

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 5,000 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