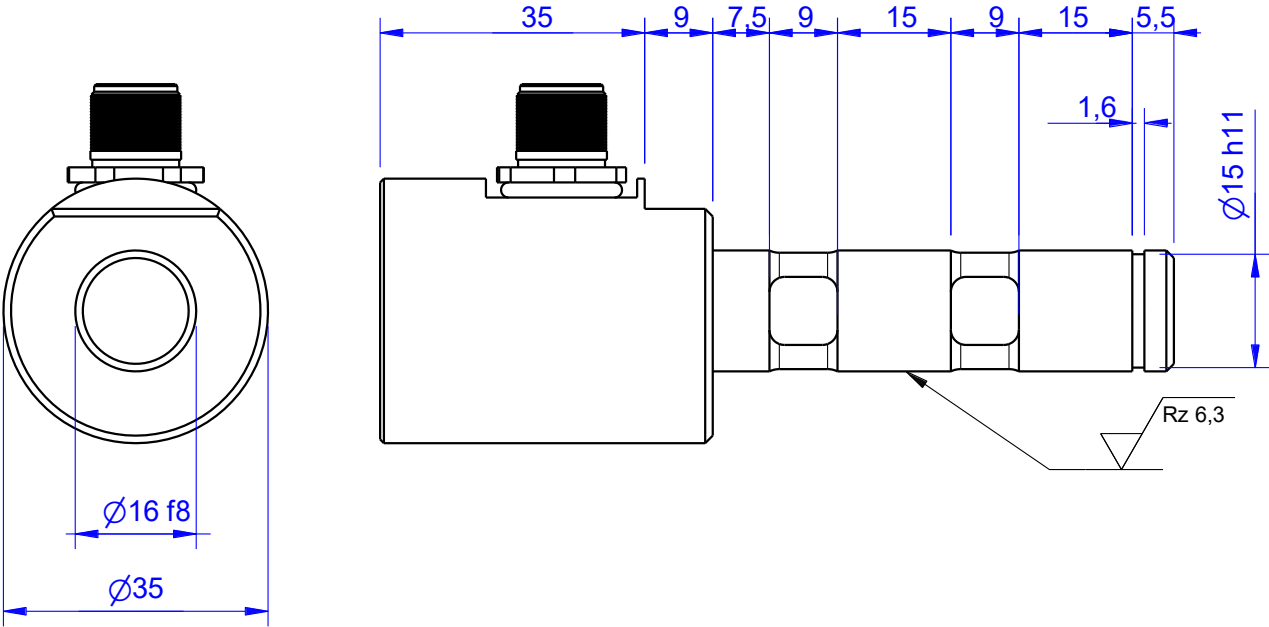


MB1721

Load Pin

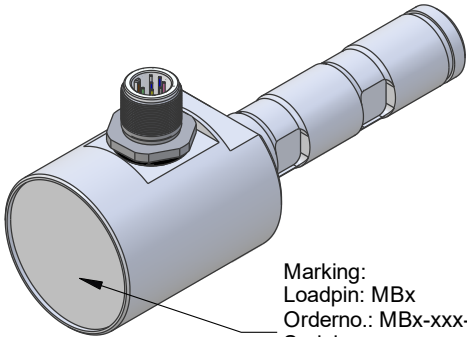
Content of Loadpin Datasheet

Page 1 ... General
Page 2 ... Mounting Situation
Page 3 ... Output Signal & Wiring



Ordernumber	Capacity [kN] (F.S.)	Uncertainty [kN] (k=2)	Review
MB1721-1-x-A	1	$\pm 0,005$	A
MB1721-2-x-A	2	$\pm 0,010$	A
MB1721-4-x-A	4	$\pm 0,020$	A
MB1721-8-x-A*	8	$\pm 0,040$	A
MB1721-10-x-A	10	$\pm 0,050$	A

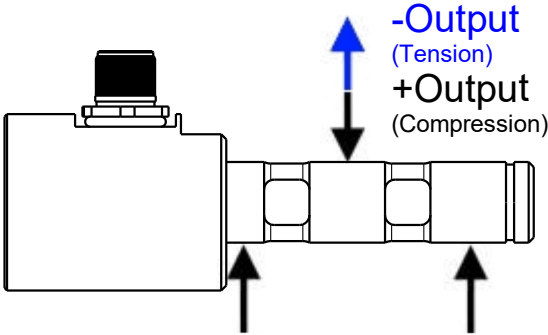
* above showed version
fixed dimensions don't change at other capacity



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
Mechanical Data		
Safe Load Limit	% of F.S.	150
Breaking Load	% of F.S.	400
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.	$^{\circ}C$	-10...+60
Operating Temp.	$^{\circ}C$	-20...+70



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Internet:
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Mounting Situation

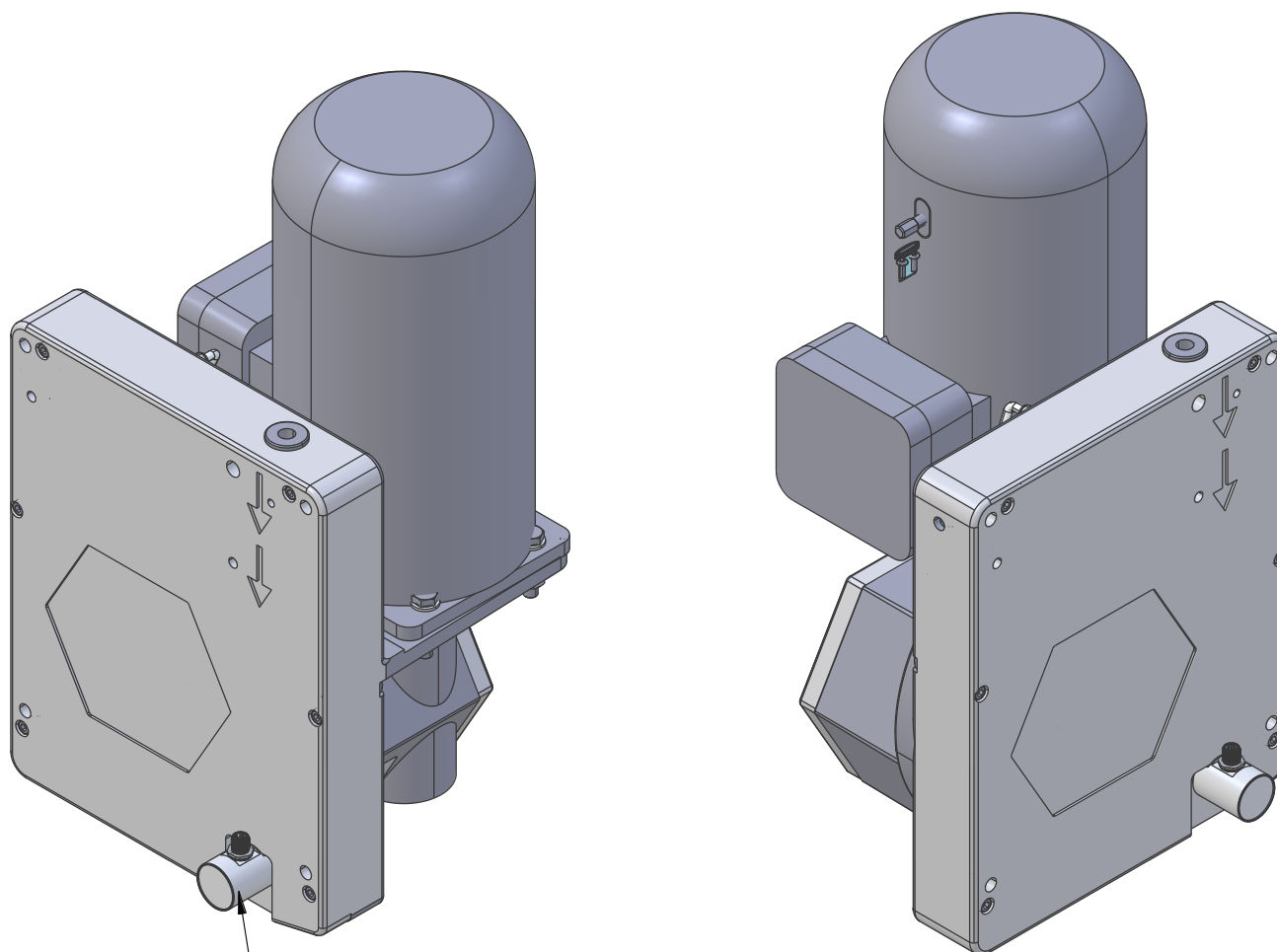
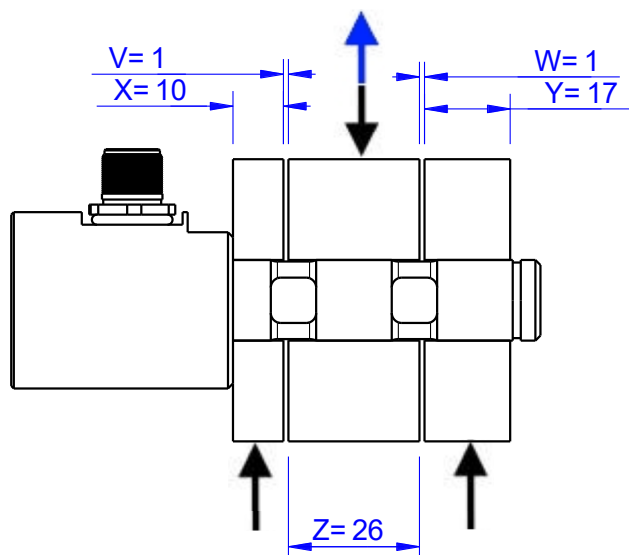
MB1721 Review: A

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)



Loadpin mounted in the winch,
anti-twist protection by adapting to the shape of the housing.

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Output Signal & Wiring

MB1721 Review: A

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

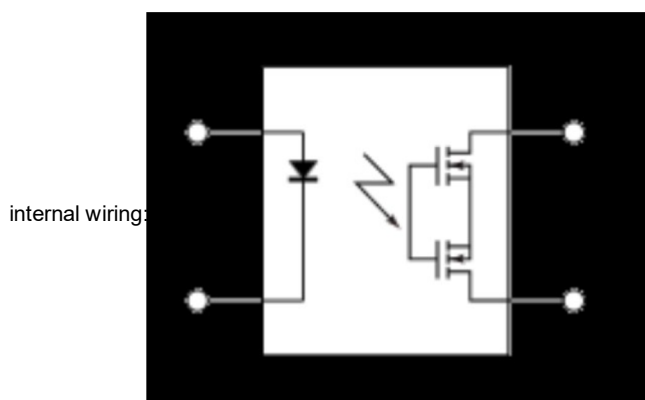
Electrical Data I20		
Output @ 0kN	mA	4
Output @ F.S.	mA	20
Supply Voltage	V	9..28
Current Consumption	mA	35 (@ 24V)
Bandwidth	Hz	2000
Switching Output		Open Collector
max. Switching current	mA	100

Wiringcode: WC517			
Integrated Amplifier: GSV-6			
Cabeling: M12 Male Socket / Flanschstecker (male)			
Supply(+)	Pin 1	Scale	Pin 5
Ground (-)	Pin 3	Threshold 1	Pin 6
Output	Pin 4	Threshold 2	Pin 7
Tare	Pin 2		



Ordernumber Add-On:
MBxxx-x-I20-x

Description for potential-free contact:



Threshold1 Pin 6

Threshold1 Pin 7

For the potential free contact the PhotoMOS AQY212S is used.

Output	Load voltage (peak AC)	V_L	60 V
	Continuous load current	I_L	0.5 A
	Peak load current	I_{peak}	1.5 A
	Power dissipation	P_{out}	300 mW
Total power dissipation		P_T	350 mW
I/O Isolation voltage		V_{iso}	1,500 V AC

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 $\pm 10V$ versions.

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Performance Level

MB1721 Review: A

1. Identification:

ISO 13849-1: 2015

Category B PL b (for systems using potential-free contact)

2. Classification:

Used standard: DIN EN ISO 13849-1: 2015

Performance Level: Plb

Category: B

MTTFd-value: 128 years (High)

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 -25° C to +55 ° 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 260,000 cycles per year.

5. Error display:

Threshold output (potential-free contact):

No error display

Diagnostic coverage: No

6. SIL Correlation from ISO 13849-1: 2015 (Table 3)

SIL1 - PL b (for systems using threshold switch)