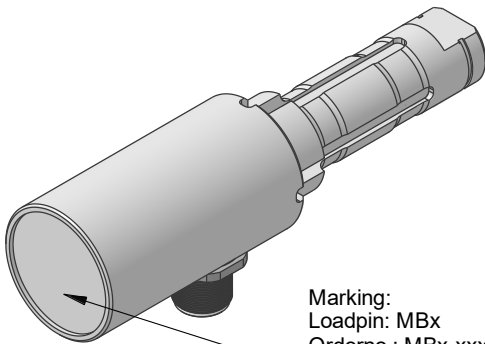
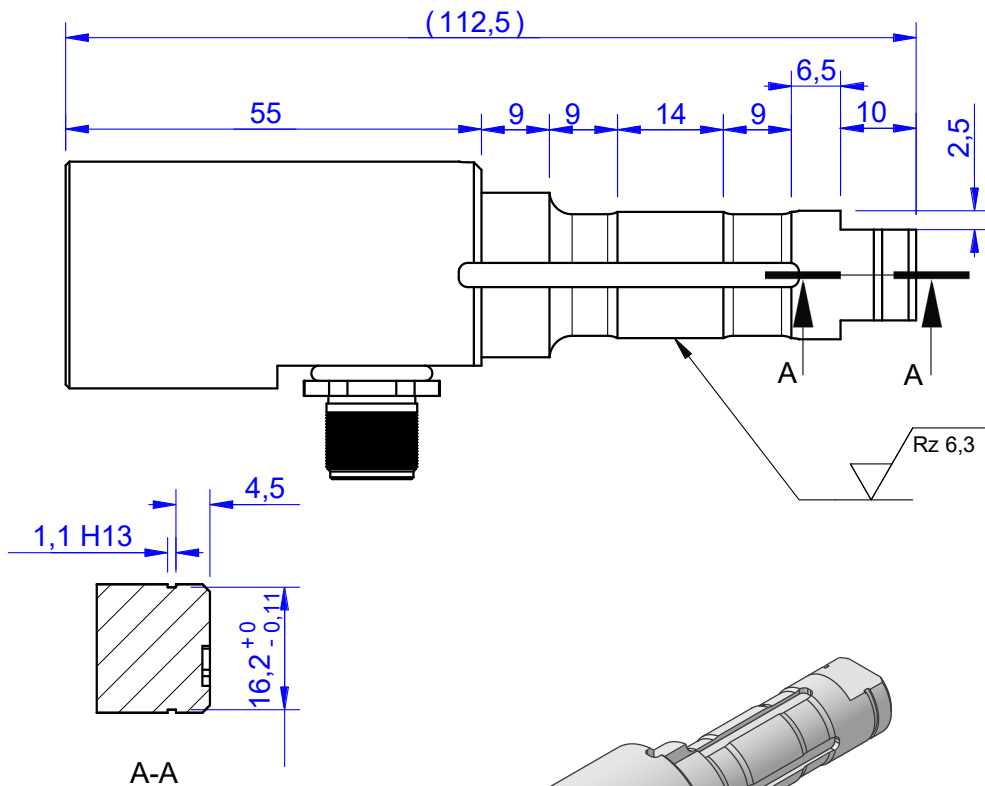
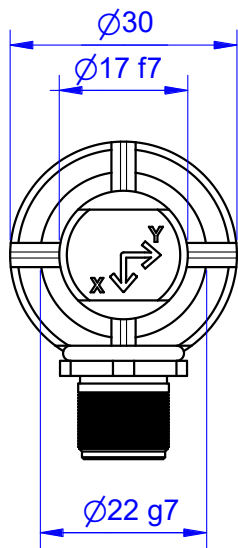


MB2172

X-Y-Axis-Load Pin

Content of Loadpin Datasheet

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



Marking:
Loadpin: MBx
Orderno.: MBx-xxx-x-x
Serialno.: xxxxxxxx
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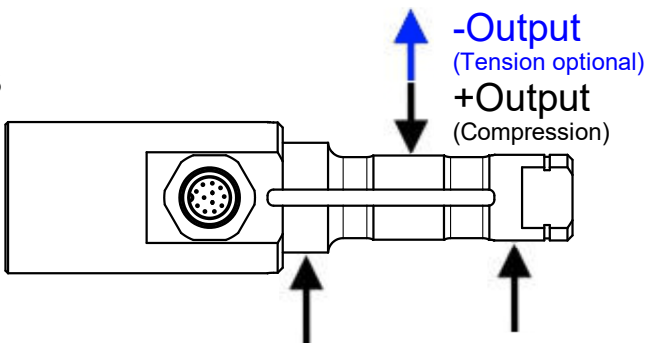
Ordernumber	Capacity [kN] (F.S.)	Uncertainty [kN] (k=2)	Review
MB2172-18-x-C	18	± 0,090	C
MB2172-20-x-C	20	± 0,100	C
MB2172-22-x-C	22	± 0,110	C
MB2172-25-x-C	25	± 0,125	C
MB2172-28-x-C*	28	± 0,140	C

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

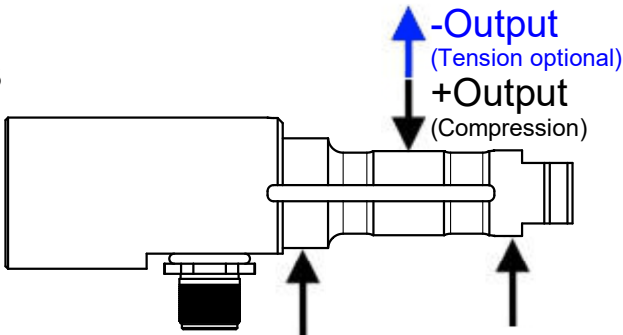
Specifications:

Dimension / Material		
Material		Stainless Steel
Protection class		IP 66
Hardness (load area)	HRC	40..45
Mechanical Data		
Safe Load Limit	% of F.S.	120
Breaking Load	% of F.S.	200
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

Y-Axis



X-Axis



Mounting Situation

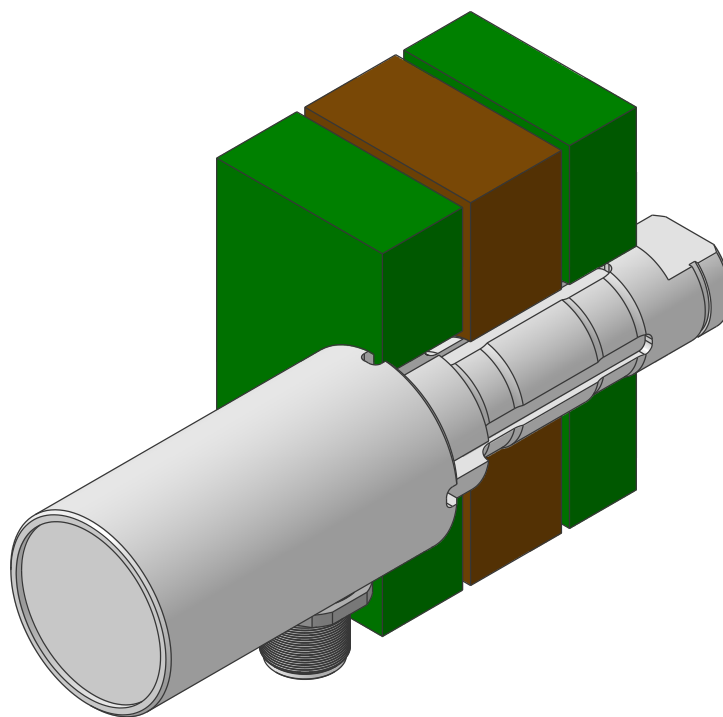
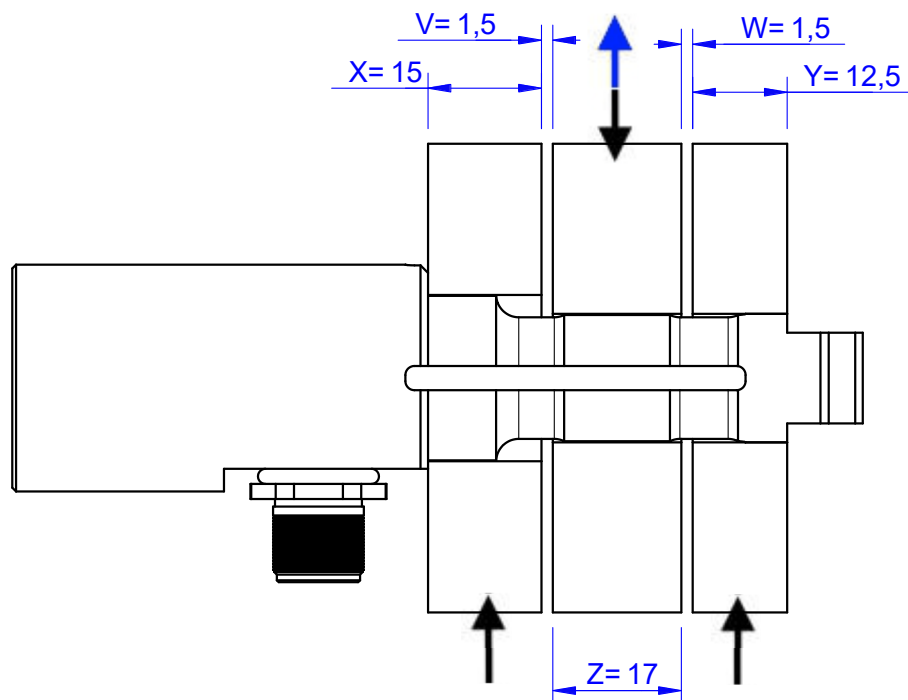
MB2172 Review: C

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

MB2172 Review: C

Analog Output mV/V (S1)

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

Wiringcode: WC65 (Channel 1 & 2)



Cabeling: M12 Male Socket / Flanschdose (male)

+Us (1)	Pin 2 / brown	+Us (2)	Pin 6 / pink
-Us (1)	Pin 1 / white	-Us (2)	Pin 5 / grey
+Ud (1)	Pin 3 / green	+Ud (2)	Pin 7 / blue
-Ud (1)	Pin 4 / yellow	-Ud (2)	Pin 8 / red

Ordernumber Add-On:

MBxxx-x-S1-x

Analog & Switch Output -10V..+10V (U42)

Electrical Data U42		
Output @ 0kN	V	0
Output @ ±F.S.	V	±10
Supply Voltage	V	14..28
Current Consumption	mA	25 (@ 24V)
Bandwidth	kHz	5

Wiringcode: WC520				Contact arrangement: mating side
Connector: M12 Male Socket				
	Master/ X-axis	Slave/ Y-Axis		
Supply (+)	Pin 1 / brown	Pin 6 / yellow		
Ground (-)	Pin 3 / white	Pin 8 / grey		
Output	Pin 4 / green	Pin 9 / red		
Tare	Pin 2 / blue	Pin 7 / black		
Scale	Pin 5 / pink	Pin 10 / purple		
Threshold	Pin 11/grey-pink	Pin 12/red-blue		

Ordernumber Add-On:

MBxxx-x-U42-x

Configuration:

Threshold ON: 90% F.S.

Threshold OFF: 88% F.S.

Analog & Switch Output 4..+20mA (I42)

Electrical Data I42		
Output @ -F.S.	mA	4
Output @ 0kN	mA	12
Output @ +F.S.	mA	20
Supply Voltage	V	9..28
Current Consumption	mA	25 (@ 24V)
Bandwidth	kHz	5

Wiringcode: WC520				Contact arrangement: mating side
Connector: M12 Male Socket				
	Master/ X-Axis	Slave/ Y-Axis		
Supply (+)	Pin 1 / brown	Pin 6 / yellow		
Ground (-)	Pin 3 / white	Pin 8 / grey		
Output	Pin 4 / green	Pin 9 / red		
Tare	Pin 2 / blue	Pin 7 / black		
Scale	Pin 5 / pink	Pin 10 / purple		
Threshold	Pin 11/grey-pink	Pin 12/red-blue		

Ordernumber Add-On:

MBxxx-x-I42-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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