GBA30
Load Pin

Content of Loadpin Datasheet
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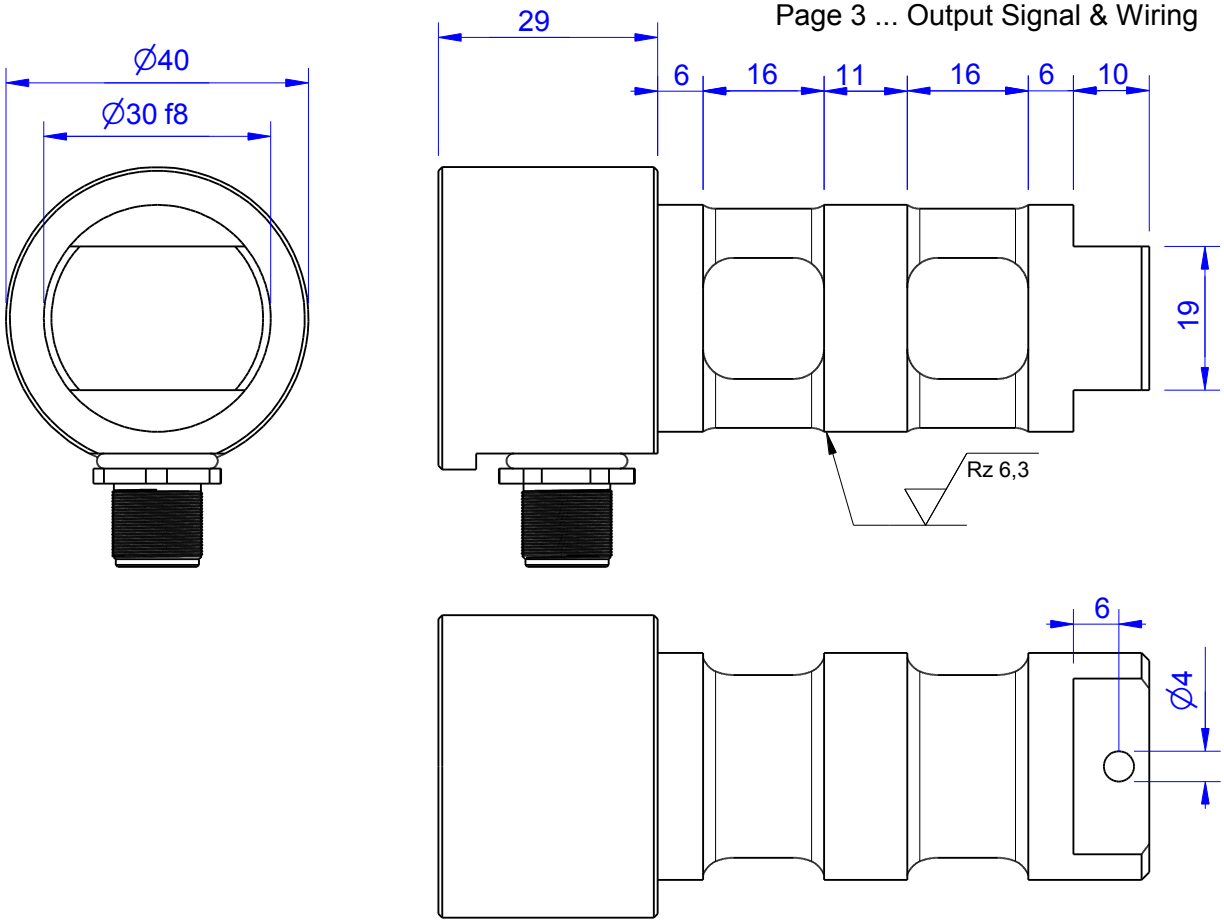
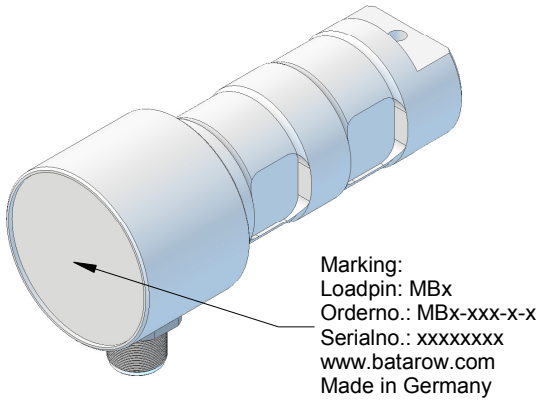


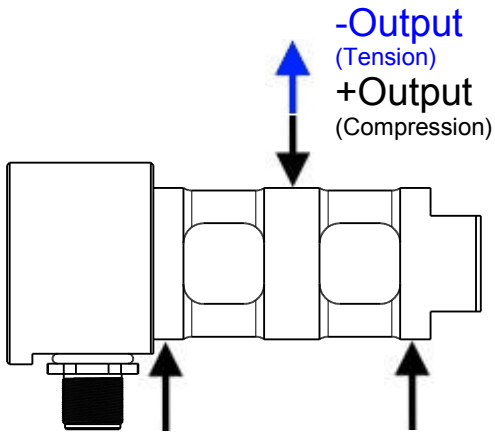
Order-number	Capacity (F.S.)	Uncertainty (k=2)	Review
GBA30-5-x-B	5 kN	±0,030kN	B
GBA30-10-x-B	10 kN	±0,050 kN	B
GBA30-20-x-B	20 kN	±0,100 kN	B
GBA30-50-x-B*	50 kN	±0,250 kN	B
GBA30-100-x-B	100 kN	±0,500 kN	B

* above showed version
The fixed dimensions don`t change at the 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.	150
Breaking Load	% of F.S.	300
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

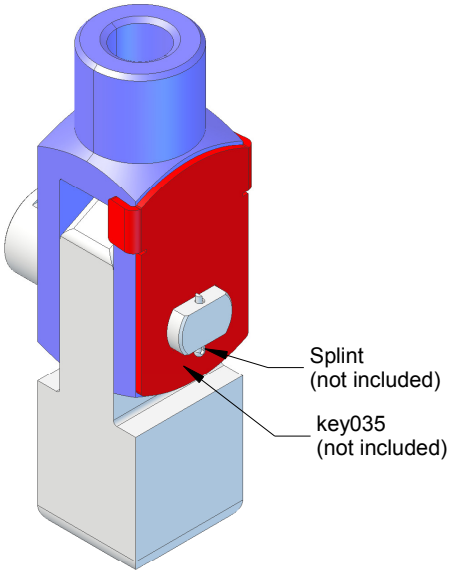
GBA30 Review: B

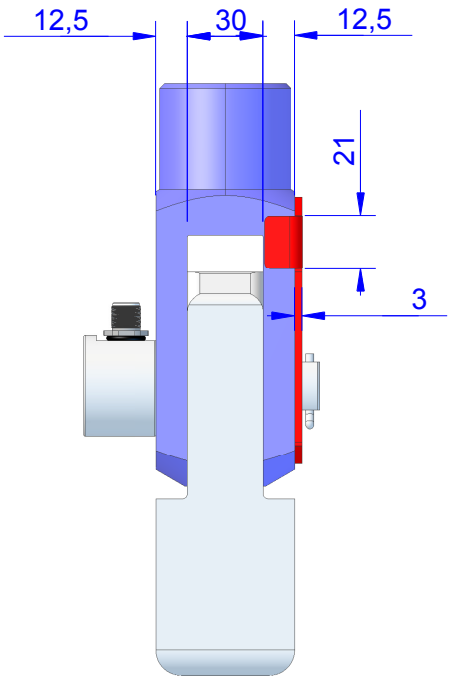
Bore fit of mounting situation: H7

Configuration

possible mounting situation / customer mounting could vary
(Please describe mounting situation with Vs, Ws, Xs, Ys and Zs for best possible calibration)

U-Fixed

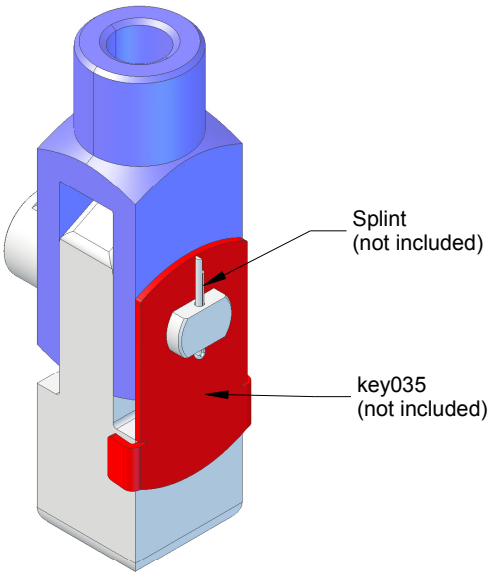


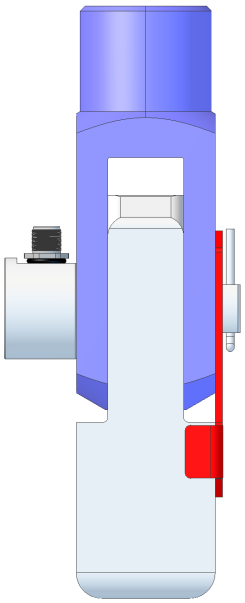


Difference beteween "U and I Fixed"

The direction of the loadpin is connected with the key plate to the U-Part (top) or to the I-Part (bottom)

I-Fixed





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Output Signal & Wiring

GBA30 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 1V..10V (U1)*

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

Wiringcode: WC46		Connectortype: M12 (male plug)			
View: plug side	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)*

Electrical Data I1		
Output @ 0kN	mA	4
Output @ F.S.	mA	20
Supply Voltage	V	14..28
Current Consumtion	mA	45 (@ 24V)
Bandwidth	kHz	1

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

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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