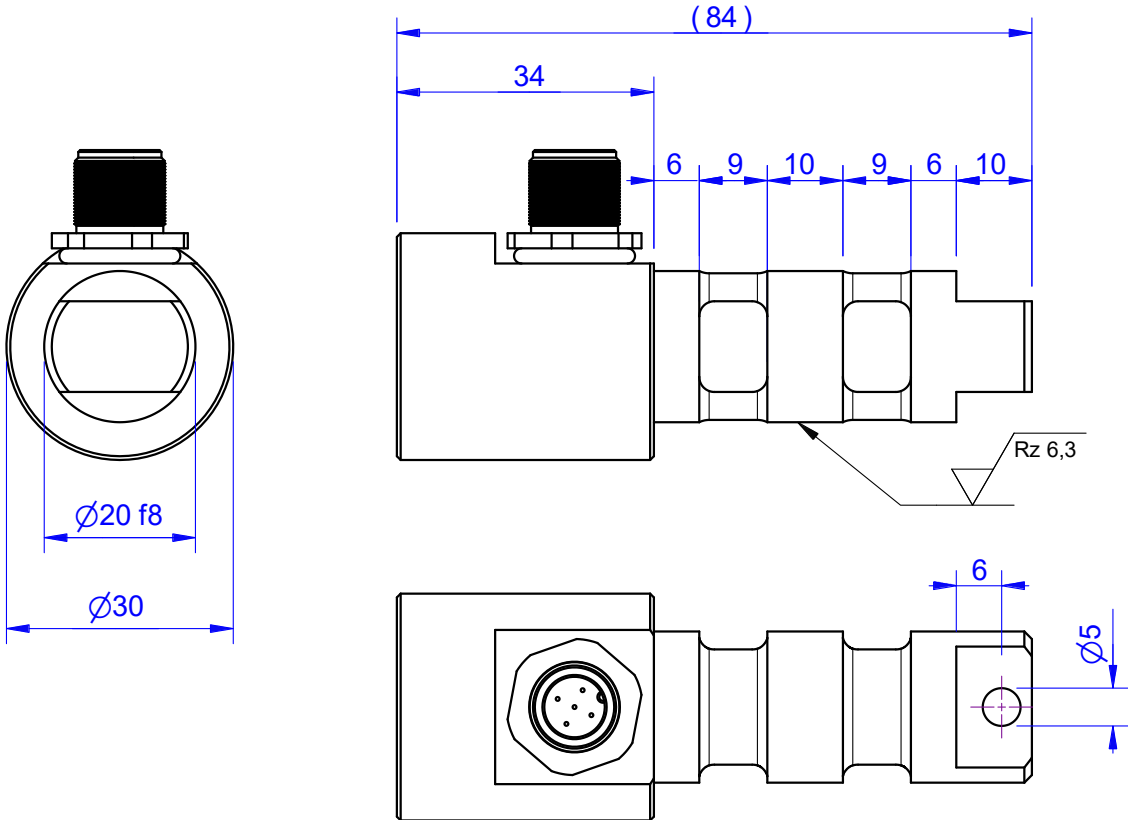


GBA20

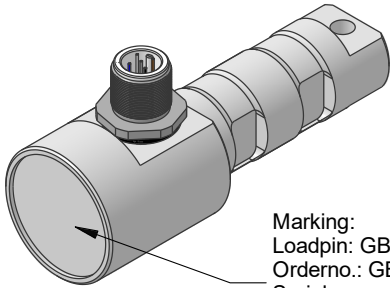
Load Pin

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
GBA20-2-x-A	2	± 0,010	A
GBA20-5-x-A	5	± 0,025	A
GBA20-10-x-A	10	± 0,050	A
GBA20-15-x-A*	15	± 0,075	A
GBA20-20-x-A	20	± 0,100	A



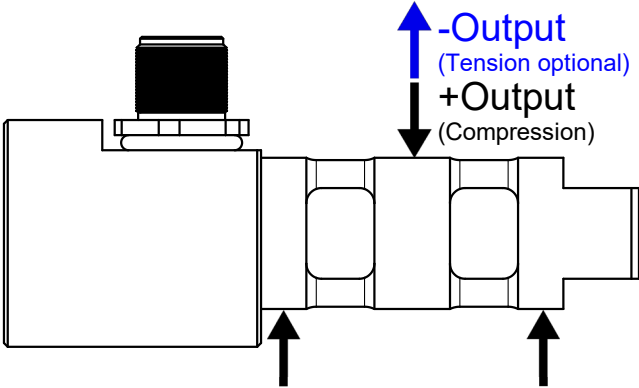
Marking:
Loadpin: GBA20
Orderno.: GBA20-xxx-x-x
Serialno.: xxxxxxxx
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* above showed version
fixed dimensions don't change at other capacity

Attention:
Measurable force-direction
depends on selected signal

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



Mounting Situation

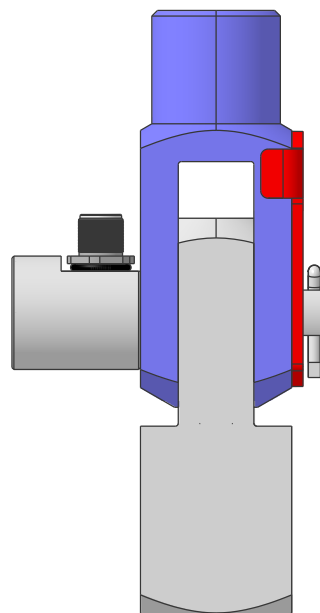
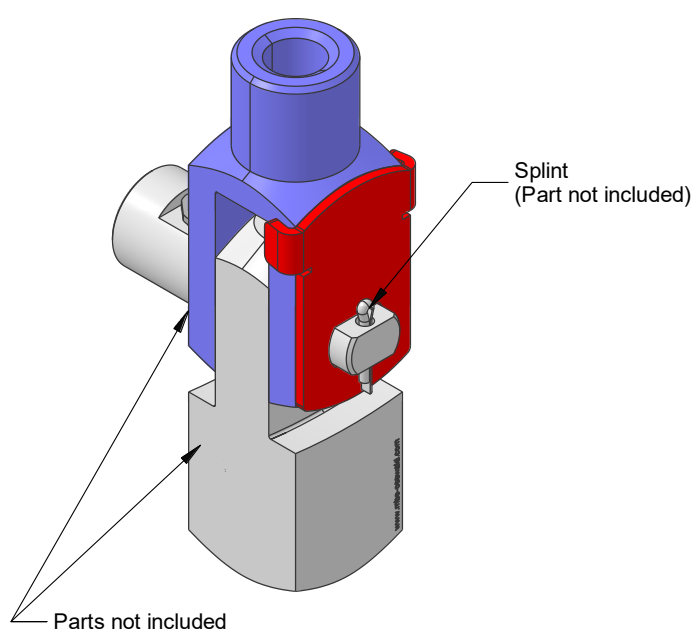
GBA20 Review: A

Bore fit of mounting situation: H7

Configuration

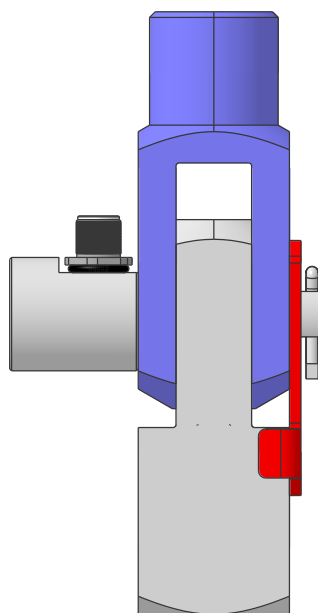
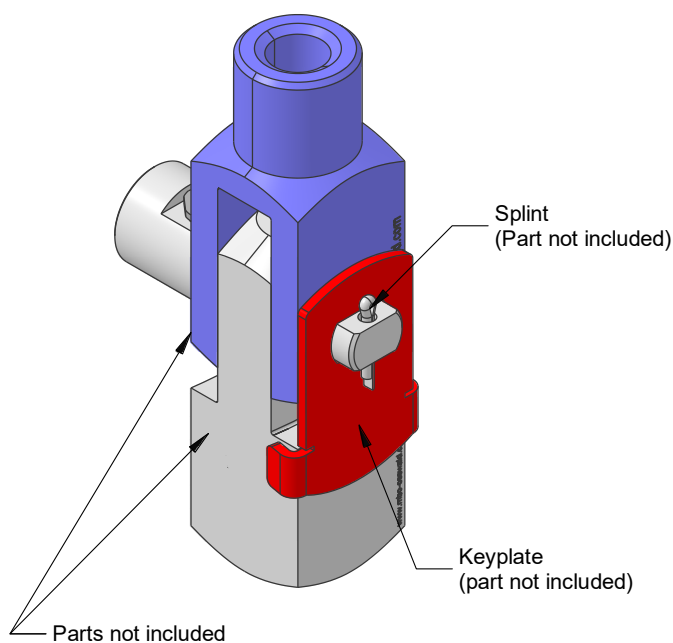
possible mounting situation / customer mounting could vary

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



Difference between "U and I Fixed"

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



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Output Signal & Wiring

GBA20 Review: A

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: WC58			 View: plug side
Connector: M12-4P (male plug)			
Supply (US+)	Pin 1	Output (UD+)	Pin 3
Supply (US-)	Pin 2	Output (UD-)	Pin 4

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	20 (@ 24V)
Bandwidth	Hz	1000

Wiringcode: WC46			 View: plug side
Connector: M12-5P (male plug)			
Integrated Amplifier: GSV13			
Supply (+)	Pin 1	Tara	Pin 2
Ground (-)	Pin 3	Scale	Pin 5
Output	Pin 4		

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	9...28
Current Consumption	mA	20 (@ 24V)
Bandwidth	Hz	1000

Wiringcode: WC46			 View: plug side
Connector: M12-5P (male plug)			
Integrated Amplifier: GSV13			
Supply (+)	Pin 1	Tara	Pin 2
Ground (-)	Pin 3	Scale	Pin 5
Output	Pin 4		

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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