

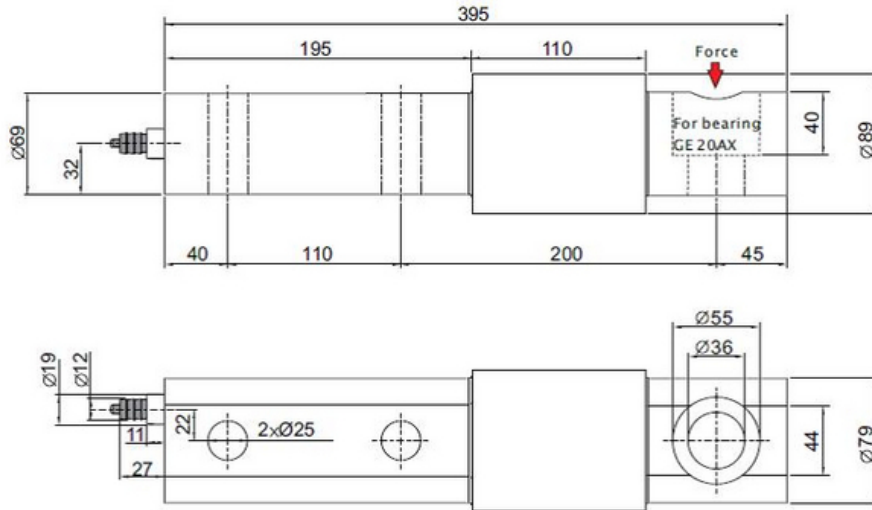


ATEX Beam Load Cell BBMA80

Robust digital heavy duty ATEX certified beam load cell produced in stainless steel and hermetically sealed to IP68 for process weighing, industrial weighing and tough applications such as on-board truck weighing, offshore, steel industry etc. The BBMA80 load cell can be used in ATEX (Ex) and non-ATEX applications

Type:	BBMA80 (ATEX) BBM80 (Non-ATEX)
Capacity (Emax):	5000, 6000, 7000kg
Accuracy:	Industrial 0.10%, Precision 0.05%, High Precision 0.025%
Overload Tolerance:	Up to 500% of rated capacity

- Made in Denmark
 - ATEX certified (Zone 1, 2, 21, 22)
 - Stainless steel 1.4542 (17-4 PH)
 - Robust capacitive technology
 - High tolerance of up to 1.000% overload
 - Hermetically sealed to IP68
 - Laser welded with Duplex 1.4462 stainless steel
 - High accuracy, High resolution
 - Can be supplied with Mud resistant and Halogen free cables for offshore installation
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- Digital filters
 - Cable length up to 100meters
 - Capacity (Emax): 5000, 6000, 7000kg
 - Accuracy: Industrial 0.10%, Precision 0.05%, High Precision 0.025%
 - Calibration independent of cable length
 - Load cell cable replaceable
 - Easy mechanical and electrical installation
 - Withstands welding voltages and ESD
 - Can be used in both ATEX and non-ATEX installations
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- [Digital Beam Load Cell Type BBM80 Dimensions PDF](#)
 - [4000 Generation ATEX Certificate SEV07 ATEX 0150 \(GERMAN\) PDF](#)
 - [4000 Generation ATEX Certificate SEV07 ATEX 0150 \(ENGLISH\) PDF](#)
 - [BBM80 BBMA80 Beam Load Cell STEP 3D CAD File \(right click -> "Save Link As..."\)](#)
 - [Guideline Correct Mounting of BNC Connector \(UK\) PDF](#)
 - [VIDEO - Correct Mounting of BNC Connector](#)



Parameter	Unit	0.10%	0.05%	0.025%
Rated capacity (E_{max})	kg		5000, 6000, 7000	
Safe overload limit	% of E_{max}		300 to 500	
Safe sideload limit	% of E_{max}		500 to 1000	
Minimum dead load	% of E_{max}		0	
Combined accuracy	% of E_{max}	0.100	0.050	0.025
Repeatability	% of E_{max}	0.030	0.025	0.015
Hysteresis	% of E_{max}	0.050	0.030	0.018
Creep 30 min.	% of E_{max}	0.040	0.030	0.020
Temperature effect on zero	% /10°C	0.060	0.055	0.040
Temperature effect on sensitivity	% /10°C	0.060	0.055	0.040
Compensated temperature range	°C		-10 to 50	
Operating temperature range	°C		-50 to 70 (100*)	
Deflection at E_{max}	mm		0.10	
Measuring rate	Hz		500	
Supply	Vdc		24Vdc ±5%	
Internal resolution	Bit		24	
Material			Stainless Steel 17-4 PH and AISI 316	
Protection			IP68	
Cable			6meter standard coaxial RG-58 (Ø6mm) with BNC connector	
Maximum cable length	m		100	
Weight	kg		9.5	
Output options			EtherNet/IP, PROFINET, EtherCAT, Profibus DP, Modbus TCP/IP, DeviceNet, RS485, 4-20mA, 0-10Vdc	

* with Teflon cable

- Dynamic weighing
- Process weighing
- Mobile weighing
- Vibration feeder
- Big-bag equipment
- Hopper scales
- Conveyor scales
- Heavy duty platform scales
- Heavy duty applications
- Offshore applications

- ATEX (Zone 1, 2, 21, 22) version type BBMA
- ATEX II 2G Ex ia IIC T6 / ATEX II 2D Ex iaD 21 T85°C
- Mounting kits available
- Customized versions available
- Load cell cable length 10, 20, 50 or 100meters
- Mud resistant and Halogen free cables for offshore installation

- Special PE load cell cable available for freezing low temperature (can be used down to -50 degrees Celsius)
- Special Teflon load cell cable available for very high temperature (can be used up to 100 degrees Celsius)