



ATEX Beam Load Cell BBLA

Robust digital ATEX certified beam load cell for dynamic weighing, process weighing and general industrial weighing. Application examples are belt scales, platform scales, small vessels, filling machines, process equipment etc. in ATEX (Ex) environment. The load cell can also be used in non-ATEX (ex) rated area

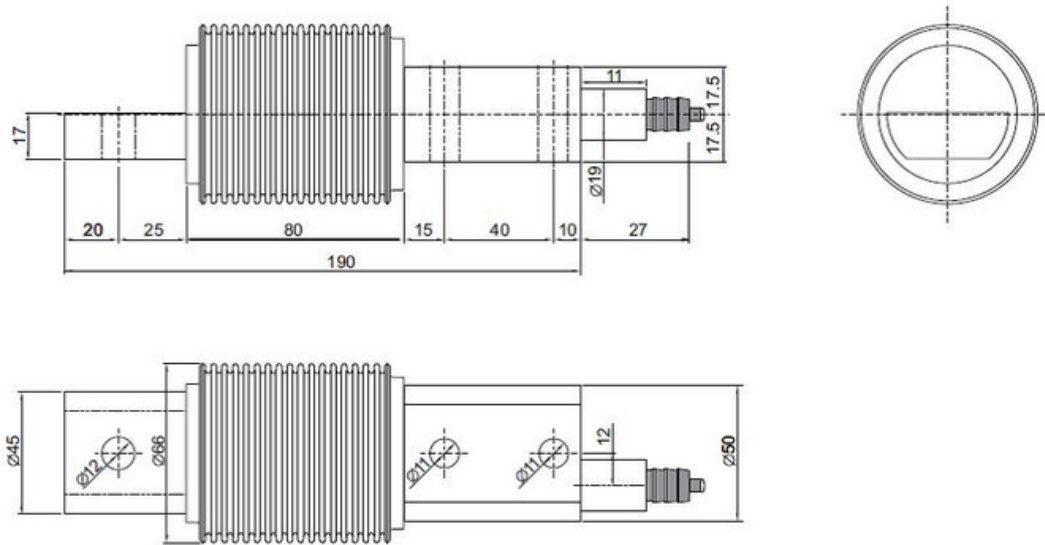
Type:	BBLA (ATEX) BBL (Non-ATEX)
Capacity (Emax):	2, 5, 10, 20, 30, 50, 100, 150, 250, 500, 1000kg
Accuracy:	Industrial 0.10%, Precision 0.05%, High Precision 0.025%
Overload Tolerance:	500% at 5kg, 200% at 1000kg capacity

- Made in Denmark
 - ATEX certified (Zone 1, 2, 21, 22)
 - Electropolished 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 Stainless Steel 1.4541
 - Can be supplied with Mud resistant and Halogen free cables for offshore installation
 - Cable length up to 100meters
 - Calibration independent of cable length
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- High accuracy, High resolution
 - Capacity (Emax): 2, 5, 10, 20, 30, 50, 100, 150, 250, 500, 1000kg
 - Accuracy: Industrial 0.10%, Precision 0.05%, High Precision 0.025%
 - 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 BBL BBLA Dimensions PDF](#)
 - [BBL BBLA Beam Load Cell STEP 3D CAD File \(right click -> "Save Link As..."\)](#)
 - [Beam Load Cell with Mounting Kit 0-100kg PDF](#)
 - [Beam Load Cell with Mounting Kit 0-100kg STEP \(right click -> "Save Link As..."\)](#)
 - [Beam Load Cell with Mounting Kit 0-100kg 3D PDF](#)
 - [Beam Load Cell with Mounting Kit 100-500kg PDF](#)

- [Beam Load Cell with Mounting Kit 100-500kg STEP \(right click -> "Save Link As..."\)](#)
- [Beam Load Cell with Mounting Kit 100-500kg 3D PDF](#)
- [4000 Generation ATEX Certificate SEV07 ATEX 0150 \(GERMAN\) PDF](#)
- [4000 Generation ATEX Certificate SEV07 ATEX 0150 \(ENGLISH\) PDF](#)
- [Guideline Correct Mounting of BNC Connector \(UK\) PDF](#)
- [VIDEO - Correct Mounting of BNC Connector](#)

Digital Beam Load Cell – Type BBL

Dimensions (mm)



Parameter	Unit	0.10%	0.05%	0.025%*
Rated capacity (E_{max})	kg	10, 20, 30, 50, 100, 150, 250, 500, 800, 1000		
Safe overload limit	% of E_{max}	200 to 1000		
Safe sideload limit	% of E_{max}	300 to 1000		
Combined accuracy	% of E_{max}	0.100	0.050	0.025
Repeatability	% of E_{max}	0.018	0.015	0.010
Hysteresis	% of E_{max}	0.033	0.020	0.017
Creep 30 min.	% of E_{max}	0.035	0.025	0.017
Temperature effect on zero	% /10°C	0.050	0.035	0.035
Temperature effect on sensitivity	% /10°C	0.050	0.035	0.035
Compensated temperature range	°C	-10 to 50		
Operating temperature range	°C	-50 to 70 (100**)		
Deflection at E_{max}	mm	max 0.10		
Measuring rate	Hz	500		
Supply	Vdc	24Vdc ±5%		
Internal resolution	Bit	24		
Material		Stainless Steel 17-4PH and AISI316		
Protection		IP68		
Cable		6meter standard coaxial RG-58 (Ø6mm) with BNC connector		
Maximum cable length	m	100		
Weight	kg	2.5		

Output options

PROFINET, Profibus DP, EtherNet/IP, Modbus TCP/IP,
EtherCAT, DeviceNet, RS485, 4-20mA, 0-10Vdc

* higher accuracies available on request

** with Teflon cable

- Dynamic weighing
- Process weighing
- Tanks and vessels
- Vibration sorters
- Filling and dosing
- Platform scales
- Packaging machines
- Hopper scales
- Belt scales
- Conveyor scales
- Big-bag equipment
- On-board weighing

- ATEX (Zone 1, 2, 21, 22) version type BBLA
- ATEX II 2G Ex ia IIC T6 / ATEX II 2D Ex iaD 21 T85°C
- Mounting kits 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)