



Beam Load Cell BL (BL-Ex)

NEW robust digital beam load cell in a new hygienic (aseptic) design for dynamic weighing, process weighing, filling, packaging and general weighing in primarily FOOD and PHARMA applications. The new hygienic design in stainless steel is without gaps or edges for easy cleaning in order to minimize the risk of bacteria growth. The BL-Ex load cell is certified for installation in ATEX (Ex) and IECEx environment (Zone 1, 2, 21 and 22) but can also be used in non-ATEX (Ex) rated area

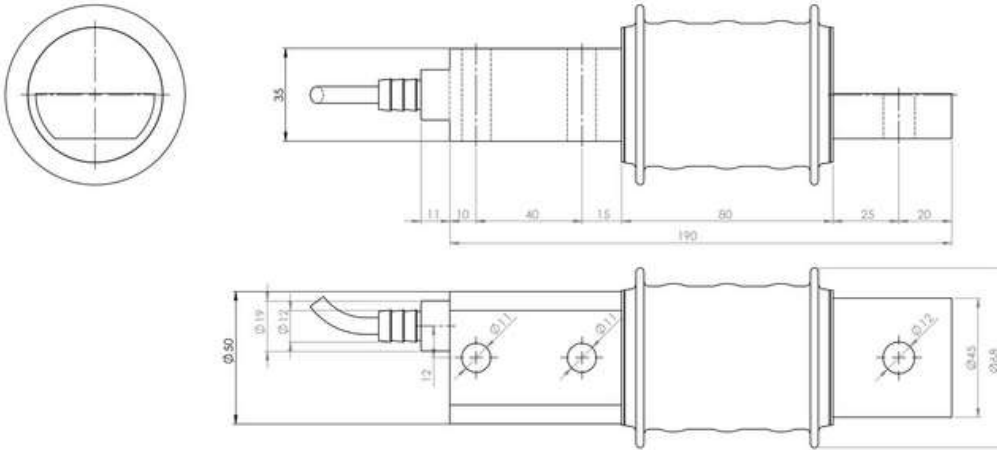
Type:	BL (Non-ATEX) BL-Ex (ATEX)
Capacity (Emax):	10, 20, 30, 50, 100, 150, 250, 500, 1000kg
Accuracy:	Industrial 0.10%, Precision 0.05%, High Precision 0.025%
Overload Tolerance:	500% at 5kg, 200% at 1000kg capacity

- Developed and manufactured in Denmark
- New hygienic (aseptic) design without gaps or edges for easy cleaning to minimize the risk of bacteria growth
- High tolerance of up to 1.000% overload
- Robust capacitive technology
- Hermetically sealed to IP68
- Electropolished stainless steel 1.4542 (17-4 PH)
- Laser welded with Stainless Steel 1.4541
- ATEX and IECEx certified (Zone 1, 2, 21, 22)

- Withstands welding voltages and ESD
- Load cell cable length up to 100meters
- High accuracy, High resolution
- Capacity (Emax): 10, 20, 30, 50, 100, 150, 250, 500, 1000kg
- Accuracy: Industrial 0.10%, Precision 0.05%, High Precision 0.025%
- Load cell cable length up to 100meters
- Load cell calibration independent of cable length
- Load cell cable replaceable
- Easy mechanical and electrical installation
- Can be used in both ATEX / IECEx and non-ATEX installations

- **KM Systems hygienic beam load cell shown with 100kg**
- **mounting kit KM Systems hygienic beam load cell shown with**
- **500kg mounting kit Digital Beam Load Cell Type BL BL-Ex**
- **Dimensions PDF**
- **BL BL-Ex 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 3D STEP \(right click -> "Save Link As..."\)](#)
- [Beam Load Cell with Mounting Kit 150-500kg PDF](#)
- [Beam Load Cell with Mounting Kit 150-500kg 3D STEP \(right click -> "Save Link As..."\)](#)
- [Beam Load Cell with Mounting Kit 1000kg PDF](#)
- [Beam Load Cell with Mounting Kit 1000kg STEP \(right click -> "Save Link As..."\)](#)
- [ATEX Certificate SEV14 ATEX 0171 X \(GERMAN\) PDF](#)
- [ATEX Certificate SEV14 ATEX 0171 X \(ENGLISH\) PDF](#)
- [Guideline Correct Mounting of BNC Connector \(UK\) PDF](#)
- [VIDEO - Correct Mounting of BNC Connector](#)



Parameter	Unit	0.10%	0.05%	C3 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

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

* higher accuracies available on request up to C4

** 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 and IECEx (Zone 1, 2, 21, 22) version type BL-Ex
- ATEX II 2G Ex ia IIC T6 Gb / ATEX II 2D Ex IIIC T85°C Db
- 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)

