



Chat with us

## Beam Load Cell BL (BL-Ex)

Robust digital beam load cell in a hygienic (aseptic) design for dynamic weighing, process weighing, filling, packaging and general weighing in food, pharma and life science applications. The new hygienic EHEDG compliant design in stainless steel is without gaps or edges for easy cleaning in order to minimize the risk of bacteria growth. The BL/BL-Ex load cell is OIML and NTEP certified and certified for installation in ATEX (Ex) and IECEx environment in Zone 1, 2, 21 and 22.

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



# Special Features

Developed and manufactured in Denmark

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)

ATEX and IECEx certified (Zone 1, 2, 21, 22)

Withstands welding voltages and ESD

High accuracy, high resolution

Capacity (E<sub>max</sub>): 10, 20, 30, 50, 100, 150, 250, 500, 1000 kg

Accuracy: Industrial 0.10%, Precision

0.05%, High Precision 0.025%

Load cell cable length up to 100 meters

Load cell calibration independent of cable length

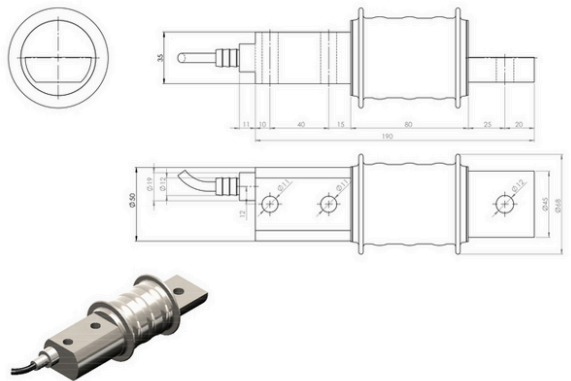
Replaceable load cell cable

Easy mechanical and electrical installation

OIML and NTEP approvals

Chat with us

## Dimensions (mm)



# Specifications

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	0.025	0.017
Creep 30 min.	% of $E_{max}$	0.035	0.025	0.017
Temperature effect on zero	% of $E_{max}$	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	-40 to +70 (100***)		
Deflection at $E_{max}$	mm	0.20		
Measuring rate	Hz	500		
Supply	Vdc	24Vdc ±5%		
Internal resolution	Bit	24		
Material		Stainless Steel 17-4 PH and AISI 316		
Protection		IP68		
Cable		6 meter standard coaxial RG-58 (Ø6mm) with BNC connector		
Maximum cable length	m	100		
Weight	kg	2.0		
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

\*\* Only for non-ATEX and with Teflon load cell cable

# Applications

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

# Options

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 100 meters  
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)

Chat with us

