



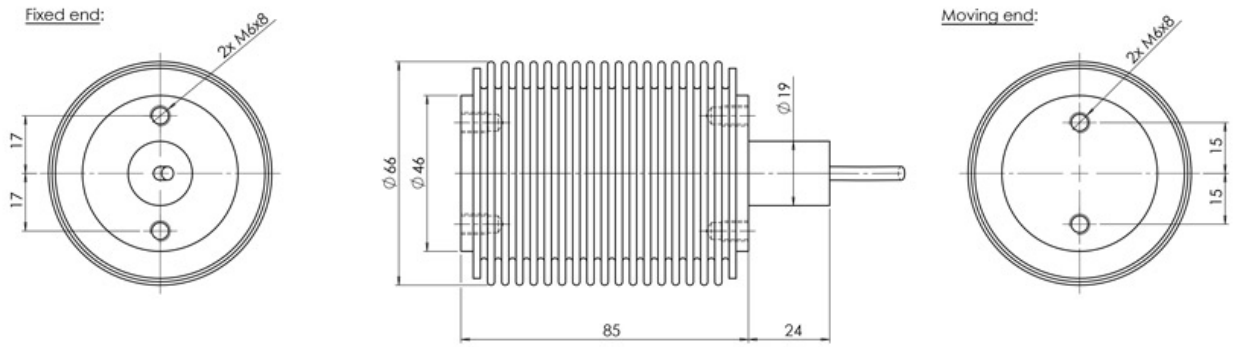
Beam Load Cell SBL

Compact digital beam load cell for dynamic weighing, web tension measurement, process weighing, force measurement and general industrial weighing. This load cell is a short version of the BL beam load cell and produced in stainless steel and laser welded (IP68)

Type:	SBL
Capacity (Emax):	1, 2, 5, 10, 20, 30, 50kg
Accuracy:	High Precision 0.025%
Overload Tolerance:	500% at 2kg, 200% at 100kg capacity

- Short version of BL load cell
- Made in Denmark
- Electropolished stainless steel 1.4542 (17-4 PH)
- Robust capacitive technology
- Patented high reliability capacitive sensor
- High tolerance of up to 500% overload
- Hermetically sealed to IP68
- High accuracy, High resolution
- Small deflection at rated capacity
- Capacity (Emax): 1, 2, 5, 10, 20, 30, 50kg
- Accuracy: High Precision 0.025%
- High resonance frequency (spring rate) for rapid dynamic weighing
- Digital filters
- Cable length up to 100meters
- Calibration independent of cable length
- Load cell cable replaceable
- Easy mechanical and electrical installation
- Withstands welding voltages and ESD

- [SBL Datasheet](#)
- [Digital Beam Load Cell Type SBL Dimensions PDF](#)
- [Digital Beam Load Cell Type SBL STEP \(right click -> "Save Link As..."\)](#)
- [Guideline Correct Mounting of BNC Connector \(UK\) PDF](#)
- [VIDEO - Correct Mounting of BNC Connector](#)



-All dimensions in mm

Parameter	Unit	0.025%*
Rated capacity (E_{max})	kg	1, 2, 5, 10, 20, 30, 50
Safe overload limit	% of E_{max}	200 to 500
Safe sideload limit	% of E_{max}	300 to 500
Combined accuracy	% of E_{max}	0.025
Repeatability	% of E_{max}	0.010
Hysteresis	% of E_{max}	0.017
Creep 30 min.	% of E_{max}	0.017
Temperature effect on zero	% /10°C	0.035
Temperature effect on sensitivity	% /10°C	0.035
Compensated temperature range	°C	-10 to 50
Operating temperature range	°C	-50 to 60
Deflection at E_{max}	mm	max 0.10
Measuring rate	Hz	500
Supply	Vdc	24Vdc \pm 5%
Internal resolution	Bit	24
Material		Stainless Steel 17-4PH and AISI316
Protection		IP68
Cable		6meter standard coaxial RG-58 (\varnothing 6mm) 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

- Web tension measurement
- Force measurement
- Dynamic weighing
- Process weighing
- Small tanks and vessels
- Vibration sorters
- Filling and dosing

- Load cell cable length 10, 20, 50 or 100meters
- 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)