



Beam Load Cell SD

Robust digital OIML 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. OIML certified (up to C6, MI10) according to OIML R60

Type:	SD
Capacity (Emax):	2, 5, 10, 20, 30, 50, 100, 150, 250, 500, 1000kg
Accuracy:	0.10% C1, 0.05% C2, 0.025% C3 og op til OIML klasse C6 (MI10)
Overload Tolerance:	500% at 5kg, 200% at 1000kg capacity

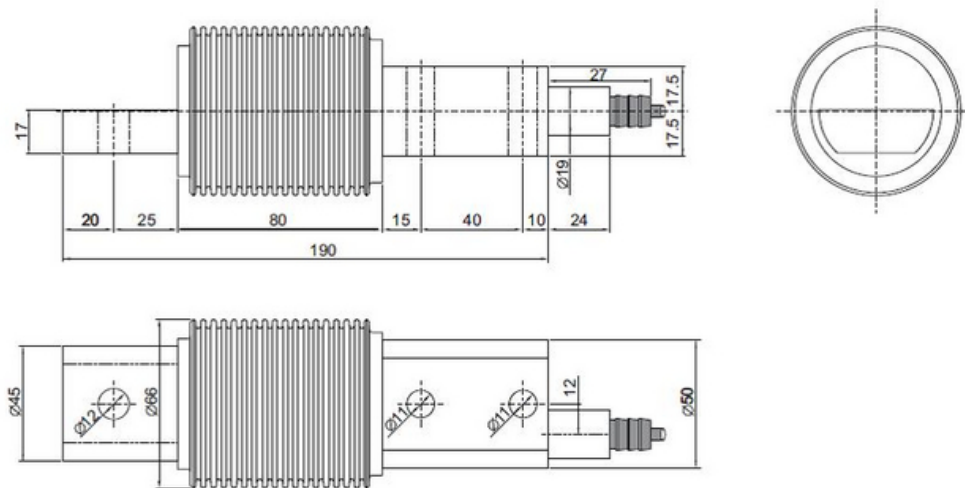
- Made in Denmark
- Electropolished stainless steel 1.4542 (17-4 PH)
- Robust capacitive technology
- Patented high reliability capacitive sensor
- OIML R60 accuracy classes up to C6 (MI10)
- High tolerance of up to 1.000% overload
- Hermetically sealed to IP68
- Laser welded with Stainless Steel 1.4541
- High accuracy, High resolution
- Small deflection at rated capacity
- Capacity (Emax): 2, 5, 10, 20, 30, 50, 100, 150, 250, 500, 1000kg
- Accuracy: Industrial 0.10% up to OIML class C6 (MI10)
- 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

- [R60-2000.1 SD OIML test certificate PDF](#)
- [Digital Beam Load Cell Type SD Dimensions PDF](#)
- [Digital Beam Load Cell Type SD STEP \(right click -> "Save Link As..."\)](#)
- [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](#)
- [Guideline Correct Mounting of BNC Connector \(UK\) PDF](#)
- [VIDEO - Correct Mounting of BNC Connector](#)

Digital Beam Load Cell - Type SD

Dimensions (mm)



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	200		
Supply	Vdc	24Vdc $\pm 5\%$		
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, DeviceNet, RS485, 4-20mA, 0-10Vdc

* higher accuracies available on request up to C6

** with Teflon cable

BL - Eilersen

- 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
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- Mounting kits available
 - 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)