



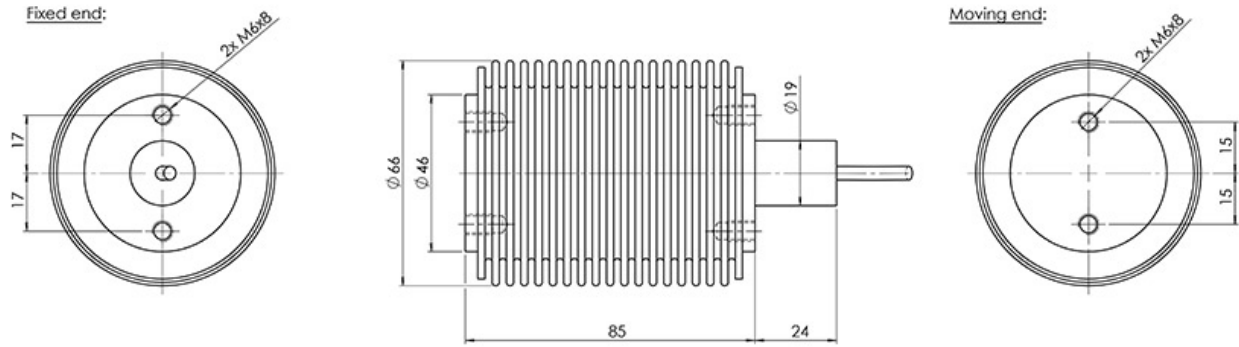
Beam Load Cell SDC

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 SD beam load cell and produced in stainless steel and laser welded (IP68)

Type:	SDC
Capacity (Emax):	1, 2, 5, 10, 20, 30, 50, 100kg
Accuracy:	Industrial 0.10%, Precision 0.05%, High Precision 0.025%
Overload Tolerance:	500% at 2kg, 200% at 100kg capacity

- Short version of SD 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 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): 1, 2, 5, 10, 20, 30, 50, 100kg
- Accuracy: Industrial 0.10%, Precision 0.05%, 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

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



Parameter	Unit	0.10%	0.05%	0.025%*
Rated capacity (E_{max})	kg		1, 2, 5, 10, 20, 50	
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 ±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		1.1	

Output options: EtherNet/IP, PROFINET, Profibus DP, Modbus TCP/IP, Modbus ASCII/RTU, DeviceNet, RS485, 4-20mA, 0-10Vdc

* higher accuracies available on request

** with Teflon cable

- 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)

