



Beam Load Cell SDM80

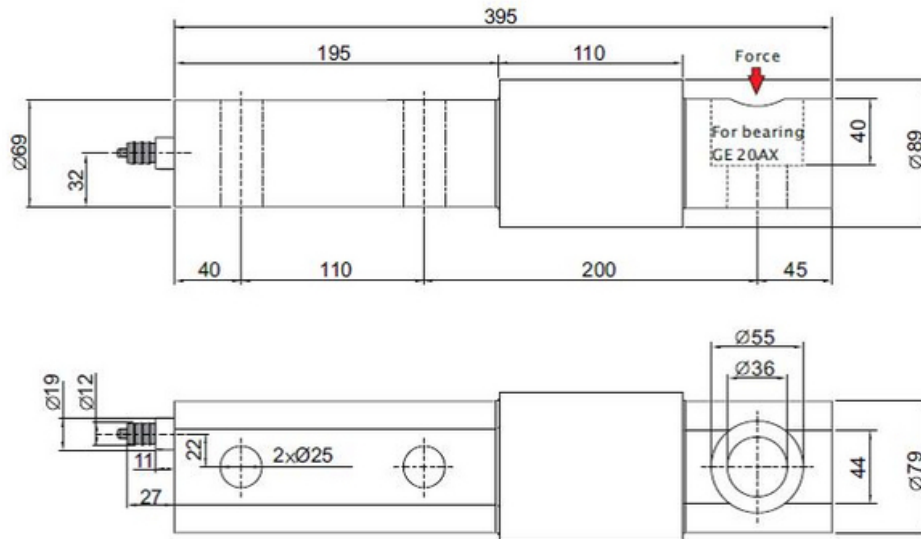
Robust digital heavy duty beam load cell produced in stainless steel and hermetically sealed to IP68 for process weighing, industrial weighing and tough applications such as on-board truck weighing, offshore, steel industry etc. OIML certified (up to C5) according to R60

Type:	SDM80
Capacity (Emax):	5000, 6000, 7000kg
Accuracy:	0.10% C1, 0.05% C2, 0.025% C3 og op til OIML klasse C5
Overload Tolerance:	Up to 500% of rated capacity

- Made in Denmark
- Stainless steel 1.4542 (17-4 PH)
- Robust capacitive technology
- Patented high reliability capacitive sensor
- OIML R60 accuracy classes up to C5
- High tolerance of up to 1.000% overload
- Hermetically sealed to IP68
- Laser welded with Duplex 1.4462 stainless steel

- High accuracy, High resolution
- Digital filters
- Capacity (Emax): 5000, 6000, 7000kg
- Accuracy: Industrial 0.10% up to OIML class C5
- Cable length up to 100meters
- Calibration independent of cable length
- Load cell cable replaceable
- Easy mechanical and electrical installation
- Withstands welding voltages and ESD

- [R60-2002.1 SDM OIML test certificate PDF](#)
- [Digital Beam Load Cell Type SDM80 Dimensions PDF](#)
- [SDM80 Beam Load Cell STEP 3D CAD File \(right click -> "Save Link As..."\)](#)
- [Guideline Correct Mounting of BNC Connector \(UK\) PDF](#)
- [VIDEO - Correct Mounting of BNC Connector](#)



Parameter	Unit	0.10%	0.05%	0.025% C3
Rated capacity (E_{max})	kg		5000, 6000, 7000	
Safe overload limit	% of E_{max}		300 to 500	
Safe sideload limit	% of E_{max}		500 to 1000	
Minimum dead load	% of E_{max}		0	
Combined accuracy	% of E_{max}	0.100	0.050	0.025
Repeatability	% of E_{max}	0.030	0.025	0.015
Hysteresis	% of E_{max}	0.050	0.030	0.018
Creep 30 min.	% of E_{max}	0.040	0.030	0.020
Temperature effect on zero	% /10°C	0.060	0.055	0.040
Temperature effect on sensitivity	% /10°C	0.060	0.055	0.040
Compensated temperature range	°C		-10 to 50	
Operating temperature range	°C		-50 to 70 (100*)	
Deflection at E_{max}	mm		0.10	
Measuring rate	Hz		200	
Supply	Vdc		24Vdc ±5%	
Internal resolution	Bit		24	
Material			Stainless Steel 17-4 PH and AISI 316	
Protection			IP68	
Cable			6meter standard coaxial RG-58 (Ø6mm) with BNC connector	
Maximum cable length	m		100	
Weight	kg		9.5	
Output options			EtherNet/IP, PROFINET, EtherCAT, Profibus DP, Modbus TCP/IP, DeviceNet, RS485, 4-20mA, 0-10Vdc	

* with Teflon cable

- Dynamic weighing
- Process weighing
- Mobile weighing
- Vibration feeders
- Big-bag equipment
- Hopper scales
- Conveyor scales
- Heavy duty platform scales
- Heavy duty applications
- Offshore applications

- Mounting kits available
- Customized versions 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)

