Beam Load Cell SDM80

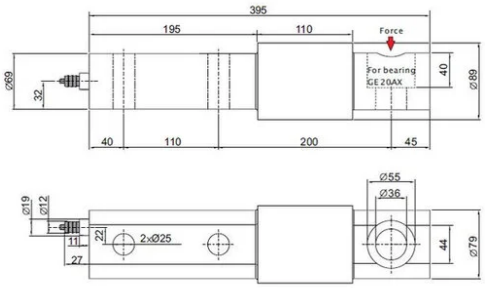
Robust digital heavy duty beam load cell produced in stainless steel and hermetically sealed to IP68 for process weighing, industrial weighing and tough applications such as on-board truck weighing, offshore, steel industry etc. OIML certified (up to C5) according to R60.

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

Special Features

- 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 1000% overload
- Hermetically sealed to IP68
- Laser welded with Duplex 1.4462 stainless steel
- High accuracy, High resolution
- Digital filters
- Capacity (Emax): 5000, 6000, 7000 kg
- Accuracy: Industrial 0.10% up to OIML class C5
- Cable length up to 100 meters
- Calibration independent of cable length
- Replaceable load cell cable
- Easy mechanical and electrical installation
- Withstands welding voltages and ESD

Dimensions (mm)



Specifications

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			6 meter standard coaxial RG-58 (Ø6mm) with BNC connector	
Maximum load cell 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

Applications

Dynamic weighing

Process weighing

Mobile weighing

Vibration feeders

Big-bag equipment

Hopper scales

Conveyor scales

Heavy duty platform scales

Heavy duty applications

Offshore applications

Options

Mounting kits available

Customized versions available

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

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)

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