Eilersen
The Weighing Experts

Digital Beam Load Cell – Type BBM80

CE ⟨Ex⟩ 0-7.000kg

Special Features

- ATEX certified (Zone 1, 2, 21, 22)
- Stainless steel
- Robust capacitive technology
- High tolerance of up to 1.000% overload
- Hermetically sealed to IP68
- Laser welded
- High accuracy, High resolution
- 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
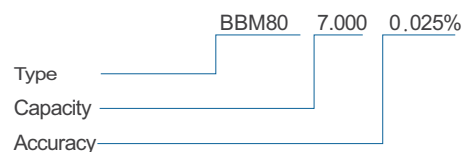- Can be used in both ATEX and non-ATEX installations

Applications

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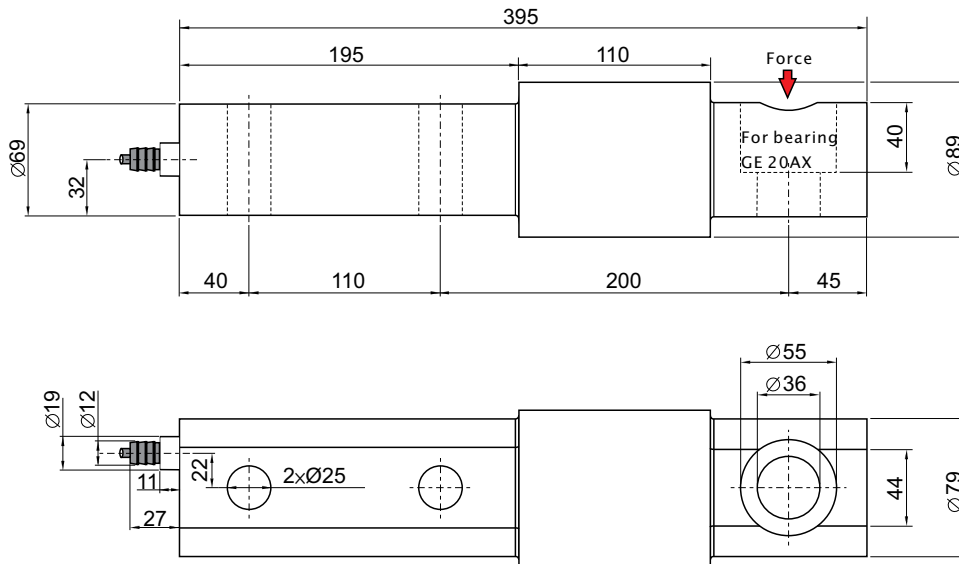- Offshore applications

Options

- ATEX (Zone 1, 2, 21, 22) version type BBMA
- ATEX II 2G Ex ia IIC T6 / ATEX II 2D Ex iaD 21 T85°C
- Mounting kits available
- Customized versions available
- Load cell cable length 10, 20, 50 or 100meters

Order information

BBM80   7.000   0.025%

Type
Capacity
Accuracy

Digital Beam Load Cell – Type BBM80

Dimensions (mm)

Parameter	Unit	0.10%	0.05%	0.025%**
Rated capacity (Emax)	kg	5.000, 6.000, 7.000		
Safe overload limit	% of Emax	300 to 500		
Safe sideload limit	% of Emax	500 to 1.000		
Minimum dead load	% of Emax	0		
Accuracy	% of Emax	0.100	0.050	0.025
Repeatability	% of Emax	0.025	0.020	0.010
Hysteresis	% of Emax	0.033	0.020	0.016
Creep 30min.	% of Emax	0.040	0.025	0.016
Temperature effect on zero	% /10 °C	0.045	0.030	0.016
Temperature effect on sensitivity	% /10 °C	0.045	0.030	0.016
Compensated temperature range	°C	-10 to 50		
Operating temperature range	°C	-50 to 70 (100*)		
Deflection at Emax	mm	Max 0.10		
Measuring rate	Hz	Up to 1.000		
Supply	Vdc	24Vdc ±10%		
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	10.5		
Output options		Profibus DP, DeviceNet, Modbus ASCII/RTU, EtherCAT EtherNet/IP, RS485, 4-20mA, 0-10Vdc		

* with Teflon cable

** higher accuracies available on request