

## Digital Beam Load Cell – Type BBM70



### 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



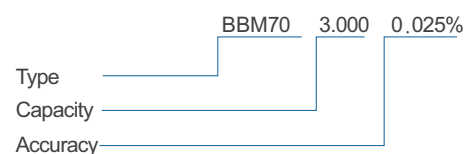
### Applications

- 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

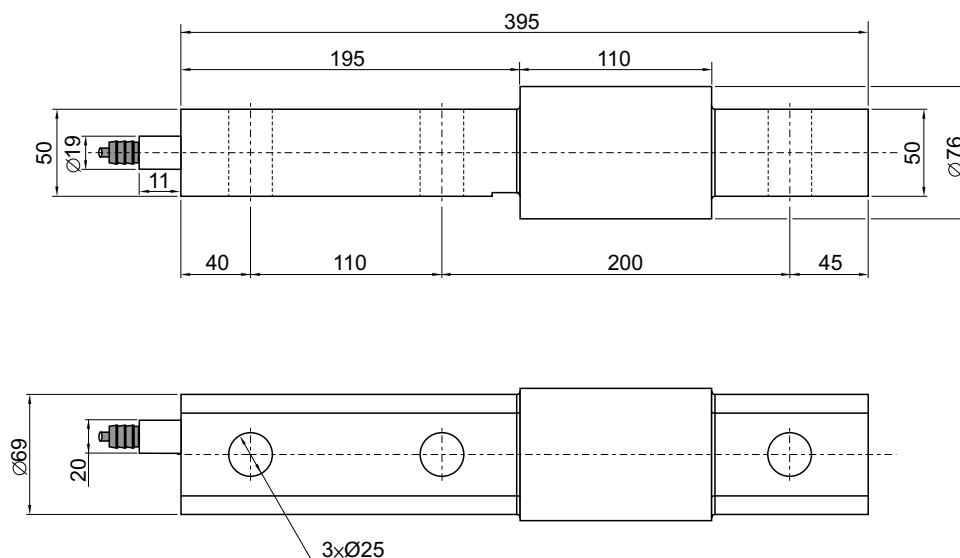
- ATEX (Zone 1, 2, 21, 22) version type BBMA
- ATEX II 2G Ex ia IIC T6 / ATEX II 2D Ex iaD 21 T85°C
- Mounting kits available
- Customized versions available
- Load cell cable length 10, 20, 50 or 100meters

### Order information



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### Dimensions (mm)



Parameter	Unit	0.10%	0.05%	0.025%**
Rated capacity (E <sub>max</sub> )	kg	1.000, 2.000, 3.000		
Safe overload limit	% of E <sub>max</sub>	300 to 1.000		
Safe sideload limit	% of E <sub>max</sub>	500 to 1.000		
Minimum dead load	% of E <sub>max</sub>	0		
Accuracy	% of E <sub>max</sub>	0.100	0.050	0.025
Repeatability	% of E <sub>max</sub>	0.025	0.020	0.010
Hysteresis	% of E <sub>max</sub>	0.033	0.020	0.016
Creep 30min.	% of E <sub>max</sub>	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 E <sub>max</sub>	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	9.5		
Output options		Profibus DP, DeviceNet, Modbus ASCII/RTU, EtherCAT EtherNet/IP, RS485, 4-20mA, 0-10Vdc		

\* with Teflon cable

\*\* higher accuracies available on request



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