

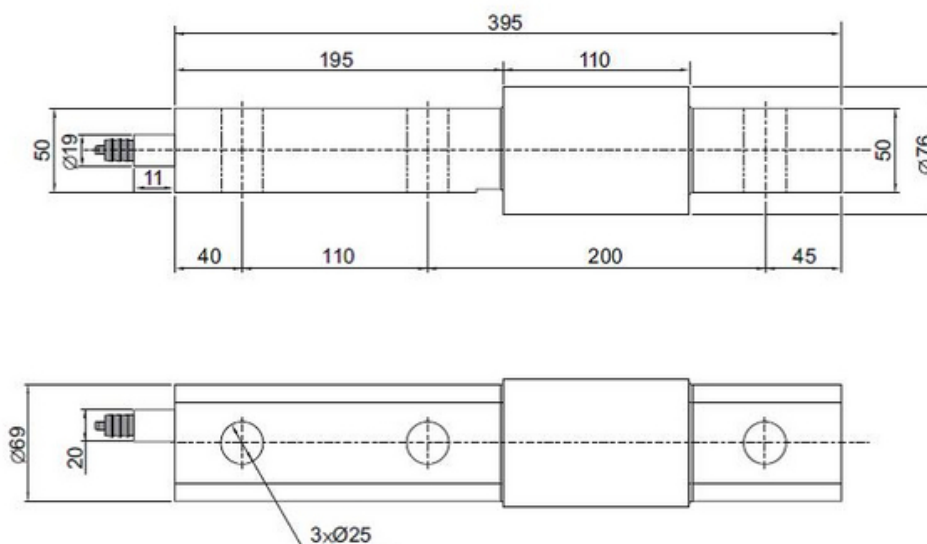
Beam Load Cell BM (BM-Ex) 70

Robust digital heavy duty ATEX certified 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. The BM-Ex 70 load cell can be used in ATEX (Ex) IECEx and non-ATEX applications

Type:	BM 70 (Non-ATEX) BM-Ex 70 (ATEX)
Capacity (Emax):	1000, 2000, 3000kg
Accuracy:	Industrial 0.10%, Precision 0.05%, High Precision 0.025%
Overload Tolerance:	Up to 500% of rated capacity

- Made in Denmark
- ATEX and IECEx certified (Zone 1, 2, 21, 22)
- Stainless steel 1.4542 (17-4 PH)
- Robust capacitive technology
- High tolerance of up to 1.000% overload
- Hermetically sealed to IP68
- Laser welded with Duplex 1.4462 stainless steel
- High accuracy, High resolution
- Can be supplied with Mud resistant and Halogen free cables for offshore installation
- Digital filters
- Cable length up to 100meters
- Capacity (Emax): 1000, 2000, 3000kg
- Accuracy: Industrial 0.10%, Precision 0.05%, High Precision 0.025%
- 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 / IECEx and non-ATEX installations
- Examples Heavy Duty Digital Beam Load Cells

- [BM 70 \(BM-Ex 70\) Datasheet](#)
- [Digital Beam Load Cell Type BM-Ex 70 Dimensions PDF](#)
- [BM 70 BM-Ex 70 Beam Load Cell STEP 3D CAD File \(right click -> "Save Link As..."\)](#)
- [BM70-Ex load cell with mounting kit](#)
- [BM70-Ex load cell with mounting kit STEP 3D CAD File \(right click -> "Save Link As..."\)](#)
- [ATEX Certificate SEV 23 ATEX 0689 X \(ENG\) PDF](#)
- [IECEx Certificate SEV 23.0028 X \(ENG\) PDF](#)
- [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		1000, 2000, 3000	
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	0.030
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		500	
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

- ATEX and IECEx (Zone 1, 2, 21, 22) version type BM-Ex
- ATEX II 2G Ex ia IIC T6 Gb / ATEX II 2D Ex IIIC T85°C Db
- Mounting kits available
- Customized versions available

- Load cell cable length 10, 20, 50 or 100meters
- Mud resistant and Halogen free cables for offshore installation
- 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)