

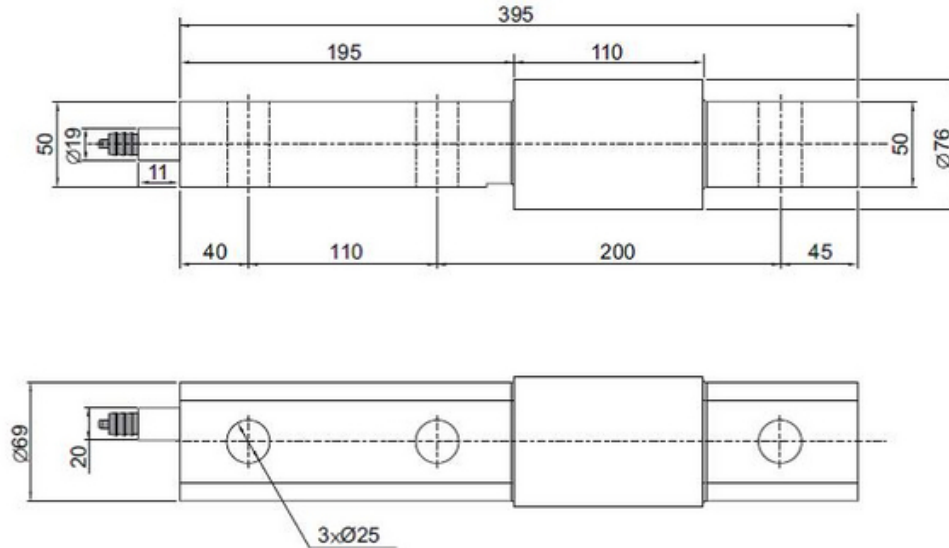
Beam Load Cell BM 70 (BM-Ex 70)

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
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- 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

- [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 SEV14 ATEX 0171 X \(GERMAN\) PDF](#)
- [ATEX Certificate SEV14 ATEX 0171 X \(ENGLISH\) 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
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- 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)