Eilersen
The Weighing Experts



## Compression Load Cell FD

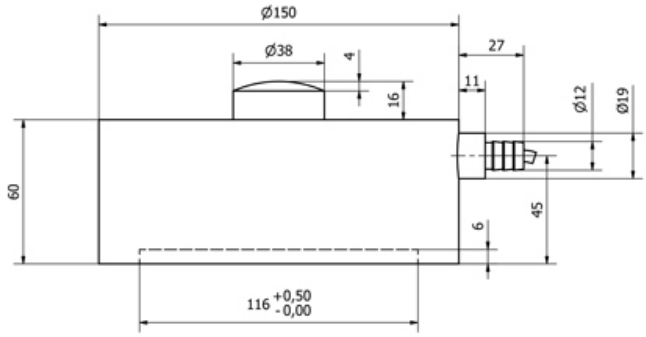
Robust digital compression load cell produced in stainless steel and hermetically sealed to IP68 for hygienic weighing installations, installations in tough environments and general process weighing

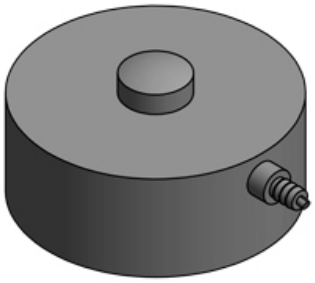
| | |
|---|---|
| **Type:** | FD |
| **Capacity (Emax):** | 6000, 8000, 10000, 12000, 15000, 20000, 25000, 50000kg |
| **Accuracy:** | Industrial 0.10%, Precision 0.05%, High Precision 0.025% |
| **Overload Tolerance:** | 400% at 6tons, 200% at 50tons capacity |

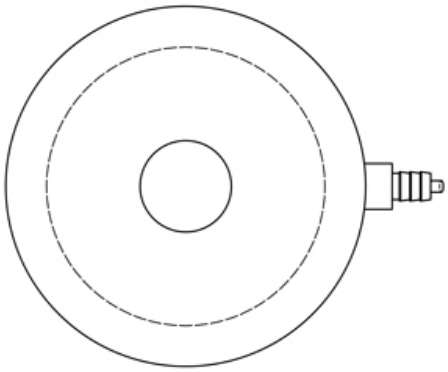
- Made in Denmark
- Robust capacitive technology
- Stainless steel 1.4542 (17-4 PH)
- High tolerance of up to 400% overload
- Hermetically sealed to IP68
- Laser welded with Duplex 1.4462 stainless steel
- Hygienic design and installation
- Withstands welding voltages and ESD

- Capacity (Emax): 6000, 8000, 10000, 12000, 15000, 20000, 25000, 50000kg
- Accuracy: Industrial 0.10%, Precision 0.05%, High Precision 0.025%
- Cable length up to 100meters
- Load cell cable replaceable
- Calibration independent of cable length
- Easy mechanical and electrical installation

- **Digital Compression Load Cell Type FD Dimensions PDF**
- **FD Compression Load Cell STEP 3D CAD File (right click -> "Save Link As...")**
- **FD Compression Load Cell DWG CAD File (right click -> "Save Link As...")**
- **FD Compression Load Cell DWG 2D CAD File (right click -> "Save Link As...")**
- **FD with Base Plate JPG**
- **FD DM DMA Base Plate Dimensions PDF**
- **FD DM DMA Base Plate STEP (right click -> "Save Link As...")**
- **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 | 6000, 8000, 10000, 12000, 15000, 20000, 25000, 50000 | | |
| Safe overload limit | % of $E_{max}$ | 200 to 400 | | |
| Safe sideload limit | % of $E_{max}$ | 200 to 500 | | |
| 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 | 0.018 |
| Hysteresis | % of $E_{max}$ | 0.055 | 0.040 | 0.020 |
| Creep 30 min. | % of $E_{max}$ | 0.060 | 0.040 | 0.040 |
| Temperature effect on zero | % /10°C | 0.060 | 0.055 | 0.055 |
| Temperature effect on sensitivity | % /10°C | 0.060 | 0.055 | 0.055 |
| Compensated temperature range | °C | -10 to 50 | | |
| Operating temperature range | °C | -50 to 70 (100*) | | |
| Deflection at $E_{max}$ | mm | max 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 | | 6meter standard coaxial RG-58 (Ø6mm) with BNC connector | | |
| Maximum load cell cable length | m | 100 | | |
| Weight | kg | 6 | | |
| Output options | | EtherNet/IP, PROFINET, EtherCAT, Modbus TCP/IP, Profibus DP, DeviceNet, RS485, 4-20mA, 0-10Vdc | | |

*** with Teflon cable**

- Tank weighing
- Process weighing
- Level measurement
- Filling and dosing
- Large Vessels
- Offshore applications
- Heavy duty applications

- Load cell cable length 10, 20, 50 or 100meters
- 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)
- Base plate available
- Alfa Laval tank leg available for Eilersen load cells