



FXD

FXD SERIES BENDING BEAM LOAD CELLS



Bending beam load cells for approved weighing, automatic systems, dosage.

CAPACITIES (kg): 100, 200, 300, 500.

OIML R60. C3 precision class.

Stainless steel. IP68 protection.

The best solution
for advanced industrial
applications

MAIN FEATURES

- C3 PRECISION CLASS
- STAINLESS STEEL
- IP68 PROTECTION
- MAX. CAPACITIES FROM 100 TO 500 kg
- SHIELDED CONNECTION CABLE
- OIML CERTIFICATE AVAILABLE UPON REQUEST
- TEST CERTIFICATE AVAILABLE UPON REQUEST

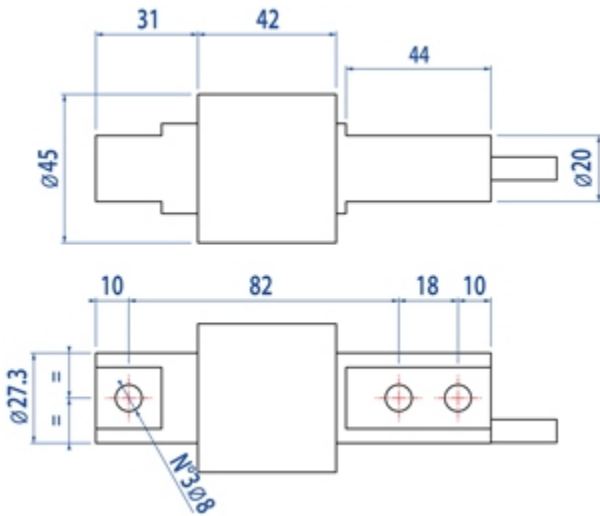
TECHNICAL FEATURES

- Minimum load cell verification interval: $V_{min} = E_{Max} / 10.000$
- Maximum number of verification intervals: $n_{LC} = 3000$
- Full Scale Output: $2.0 \pm 0,002mV/V$
- Combined error: 0,017% of Full Scale Output (F.S.)
- Non-Repeatability: 0,015% F.S.
- Temperature effect on zero: $\pm 0,02\%$ F.S. / $10^{\circ}C$
- Temperature effect on full scale output: $\pm 0,02\%$ F.S. / $10^{\circ}C$
- Compensated Temperature Range: $-10^{\circ}C/+40^{\circ}C$
- Operating Temperature Range: $-30^{\circ}C/+70^{\circ}C$
- Creep error after 30 minutes $\pm 0,016\%$ F.S.
- Maximum tolerated excitation voltage: 15 VDC
- Input Resistance: 400 ± 20 Ohm
- Output Resistance: 352 ± 3 Ohm
- Insulation Resistance: > 5000 MOhm
- Safe Overload: 120% F.S.
- Ultimate Overload: 150% F.S.
- Nominal displacement: $< 0,4$ mm
- 4-wire shielded cable, 3m long, 5mm diameter.

ATEX VERSION

- The CCATEX certificate makes the load cell suitable for use in hazardous areas with protection methods according to:
ATEX II 1G Ex ia IIC T6 (Ta $-20 \div +40^{\circ}C$) TX (Ta $-20 \div +65^{\circ}C$) Ga
ATEX II 1D Ex ta IIIC TX $^{\circ}C$ (Ta $-20 \div +40^{\circ}C$) TX $^{\circ}C$ (Ta $-20 \div +65^{\circ}C$) Da IP65.
The certificate includes the manual and the ATEX CE conformity declaration (available in EN, DE, FR, and IT).
- **IMPORTANT:** the certificate refers to the single load cell. For systems with more load cells, it is necessary to order one certificate for each load cell.

DETAIL 1



Dimensions (mm)

Wiring Code	
<i>Colour</i>	<i>Function</i>
--	SHIELD
GREEN	OUTPUT +
RED	INPUT +
WHITE	OUTPUT -
BLACK	INPUT -

VERSIONS

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Codice		Max (kg)
FXD100		100
FXD200		200
FXD300		300
FXD500		500



GRAVITATION LTD.

UNIT 2B SECTION 5 DUNSHAUGHLIN - - CO. MEATH - IRELAND

Tel. 00353469078900

Fax. 00353469078911

E-mail info@gravitation.ie

Web www.gravitation.ie

All the specifications and images can be subject to variations and upgrades without prior notice.