

FXD

FXD SERIES BENDING BEAM LOAD CELLS



Bending beam load cells for approved weighing (capacities from 100kg to 500kg), automatic systems, dosage.

CAPACITIES (kg): 10, 20 , 50, 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 10 TO 500 kg
- SHIELDED CONNECTION CABLE
- OIML CERTIFICATE AVAILABLE UPON REQUEST
- TEST CERTIFICATE AVAILABLE UPON REQUEST

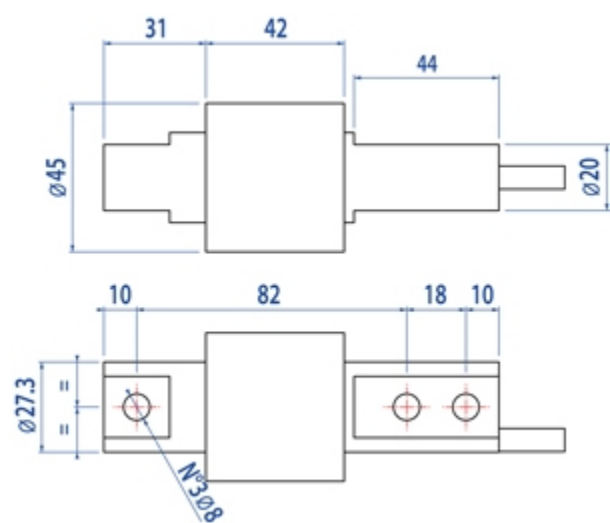
TECHNICAL FEATURES

- Minimum load cell verification interval: $V_{min} = E_{Max} / 10.000$
- Maximum number of verification intervals: $n_{LC} = 3000$
- Full Scale Output: $2 \text{ mV/V} \pm 0,1\%$
- Combined error: 0,012% of Full Scale Output (F.S.)
- Non-Repeatability: 0,01% F.S.
- Temperature effect on zero: $\pm 0,02\% \text{ F.S.} / 10^{\circ}\text{C}$
- Temperature effect on full scale output: $\pm 0,02\% \text{ F.S.} / 10^{\circ}\text{C}$
- Compensated Temperature Range: $-10^{\circ}\text{C}/+50^{\circ}\text{C}$
- Operating Temperature Range: $-20^{\circ}\text{C}/+60^{\circ}\text{C}$
- Creep error after 30 minutes $\pm 0,012\% \text{ F.S.}$
- Maximum tolerated excitation voltage: 15 VDC
- Input Resistance: $385 \pm 10 \text{ Ohm}$
- Output Resistance: $350 \pm 3 \text{ Ohm}$
- Insulation Resistance: $> 5000 \text{ MOhm}$
- Safe Overload: 120% F.S.
- Ultimate Overload: 150% F.S.
- Nominal displacement: $< 0,4 \text{ mm}$
- 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°C ÷ $+40^{\circ}\text{C}$) TX (Ta -20°C ÷ $+65^{\circ}\text{C}$) Ga
ATEX II 1D Ex ta IIIC TX $^{\circ}\text{C}$ (Ta -20°C ÷ $+40^{\circ}\text{C}$) TX $^{\circ}\text{C}$ (Ta -20°C ÷ $+65^{\circ}\text{C}$) 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	
Colour	Function
--	SHIELD
GREEN	OUTPUT +
RED	INPUT +
WHITE	OUTPUT -
BLACK	INPUT -

VERSIONS

Available versions

Codice	Max (kg)
FXD10	10
FXD20	20
FXD50	50
FXD100 	100
FXD200 	200
FXD300 	300
FXD500 	500



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SALES AND TECHNICAL ASSISTANCE SERVICE