

## FXD

### FXD SERIES BENDING BEAM LOAD CELLS



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

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**CAPACITIES (kg):** 10, 20 , 50, 100, 200, 300, 500.

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**OIML R60. C3** precision class.

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**Stainless steel. IP68** protection.

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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

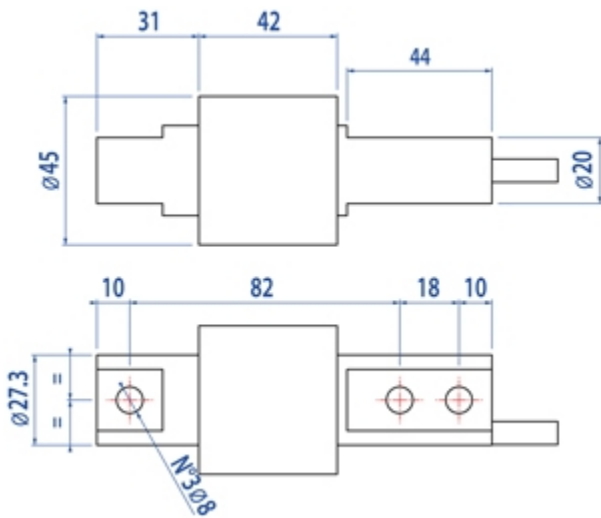
## TECHNICAL FEATURES

- 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  $-20 \div +40^\circ\text{C}$ ) TX (Ta  $-20 \div +65^\circ\text{C}$ ) Ga  
ATEX II 1D Ex ta IIIC TX $^\circ\text{C}$  (Ta  $-20 \div +40^\circ\text{C}$ ) TX $^\circ\text{C}$  (Ta  $-20 \div +65^\circ\text{C}$ ) 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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**INSTRUMENTS Ltd**  
China

**DINI ARGEO**  
**OCEANIA**  
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