

FXC

FXC SERIES BENDING BEAM LOAD CELLS



Bending beam load cells for approved weighing, 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

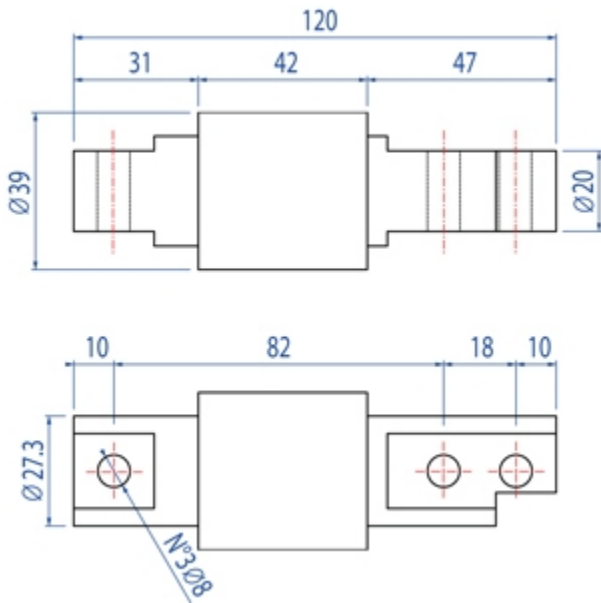
TECHNICAL FEATURES

- Minimum load cell verification interval: $V_{min} = E_{Max} / 10.000$
- Maximum number of verification intervals: $nLC = 3000$
- Full Scale Output: $2mV/V \pm 0,1\%$
- Combined error: 0,017% of Full Scale Output (F.S.)
- Non-Repeatability: 0,015% F.S.
- Temperature effect on zero: $\pm 0,002\% / ^\circ C$
- Temperature effect on full scale output: $\pm 0,0012\% / ^\circ C$
- Compensated Temperature Range: $-10^\circ C / +40^\circ C$
- Operating Temperature Range: $-20^\circ C / +60^\circ C$
- Creep error after 30 minutes $\pm 0,016\%$ F.S.
- Maximum tolerated excitation voltage: 15 VDC
- Input Resistance: $385 \pm 20 \text{ Ohm}$
- Output Resistance: $350 \pm 5 \text{ Ohm}$
- Insulation Resistance: $> 5000 \text{ MOhm}$
- Safe Overload: 200% F.S.
- Ultimate Overload: 300% F.S.
- Nominal displacement: $< 0,4 \text{ mm}$
- 4-wire shielded cable, 3m long, 4mm 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	
Colour	Function
--	SHIELD
BLACK	OUTPUT +
RED	INPUT +
BLUE	OUTPUT -
WHITE	INPUT -

VERSIONS

Available versions

Codice	Max (kg)
FXC10 	10
FXC20 	20
FXC50 	50
FXC100 	100
FXC200 	200
FXC300 	300
FXC500 	500

COVENTRY SCALE COMPANY



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