

FXL Series Bending Beam Load Cell



Standard Features

- C3 precision class (Maximum number of legal divisions: nIC=3000)
- Stainless steel
- IP68/IP69K protection
- Max. capacities from 30 to 250 kg
- Shielded connection cable
- OIML certificate available upon request
- Test certificate available upon request
- Increased bore size and center distance are the typical measurements of a shear-beam load cell.

CAPACITIES (kg): 30, 50, 100, 250.

OIML R60. C3 precision class.

Stainless steel. **IP68/IP69K** protection.

Bending beam load cells for approved weighing, automatic systems, dosage. Larger dimensions compared to other bending beam models, with a hole center distance of 1 inch (25.4 mm).

Specifications

Minimum load cell verification interval:

$$V_{min} = E_{Max} / 10.000$$

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:

$$\pm \pm 0,002\% / ^\circ C$$

Temperature effect on full scale output:

$$\pm 0,0012\% / ^\circ C$$

Compensated Temperature Range:

$$-10^\circ C / +40^\circ C$$

Operating Temperature Range:

$$-30^\circ C / +70^\circ C$$

Creep error after 30 minutes:

$$\pm 0,016\% \text{ F.S.}$$

Excitation voltage:

$$10 \div 15 \text{ V}$$

Input Resistance:

$$400 \pm 20 \text{ Ohm}$$

Output Resistance:

$$350 \pm 3 \text{ Ohm}$$

Insulation Resistance:

> 5000 MOhm

Safe Overload:

150% F.S.

Ultimate Overload:

200% F.S.

Nominal displacement:

0,2-0,4 mm

Shielded cable:

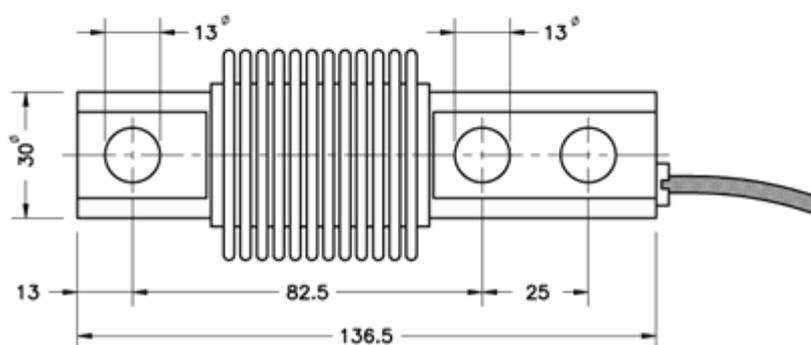
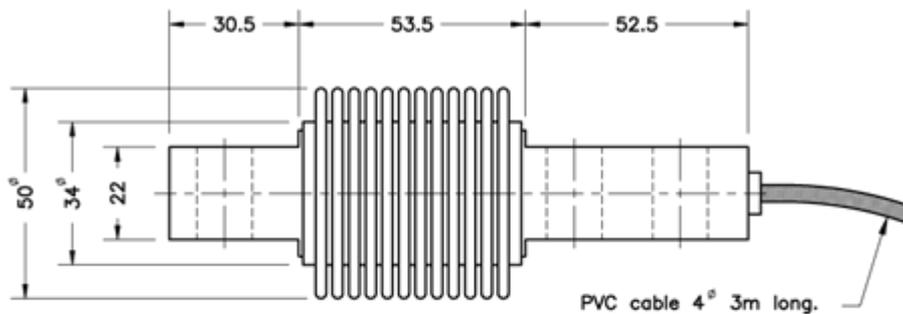
4-wire shielded cable, 3m long, 4mm diameter.

* Refers to combined use with the mounting kits offered by Dini Argeo.

Wiring Code

<u>Wiring Code</u>	
<u>Colour</u>	<u>Function</u>
--	SHIELD
BLACK	SIG +
RED	EXC +
GREEN	SIG -
WHITE	EXC -

Dimensions



Parts

Part # Description

Available Versions

- | | |
|---------------|--|
| FXL30 | Bending beam approved load cell, C3, Max=30kg. Stainless steel, IP68/IP69K protection degree, 350 Ohm output resistance, with 25mm hole wheelbase. |
| FXL50 | Bending beam approved load cell, C3, Max=50kg. Stainless steel, IP68/IP69K protection degree, 350 Ohm output resistance, with 25mm hole wheelbase. |
| FXL100 | Bending beam approved load cell, C3, Max=100kg. Stainless steel, IP68/IP69K protection degree, 350 Ohm output resistance, with 25 mm hole wheelbase. |
| FXL250 | Bending beam approved load cell, C3, Max=250kg. Stainless steel, IP68/IP69K protection degree, 350 Ohm output resistance, with 25mm hole wheelbase. |

Options

Part # Description

Connection Cables

LCCB Shielded cable 6x0.25 mm² (suitable for Ex zones). PVC inner sheath. Tinned copper braid shielding. PVC outer sheath, diameter 5.8 mm. Temperature range: -40 / +80 °C. Minimum bending radius $\geq 6 \times$ O.D. €/m. Maximum orderable length: 100 m (longer lengths available only upon request).

LCCBA Armoured cable 6x0.25 mm² (suitable for Ex zones). PVC inner sheath, diameter 5mm. Iron-zinc alloy armour. Transparent PVC outer sheath, 8 mm diameter. Temperature range: -15 / +70 °C. Minimum bending radius $\geq 5 \times$ O.D. €/m. Maximum orderable length: 100 m (longer lengths available only upon request).

LCCBM6 Shielded 6x0,34 mm² cable for moving applications. €/m. Maximum orderable length: 100 m (longer lengths available only upon request).

PRCB Protection sheathing for shielded cable. €/meter internal \varnothing 15mm. Maximum orderable length: 100 m (longer lengths available only upon request).

Junction Boxes

JB4Q Equalisation box for connection with up to 4 load cells. ABS box, IP67 protection rating, with 4 + 1 fairleads.

JB4QI Stainless steel equalisation box for connection with up to 4 load cells. IP65 protection rating, with 4 + 1 fairleads.

JC4Q Equalisation board for up to 4 cells. With UL marked PCB, Terminal block, plastic box and labels (if expected).

Available Weight Indicator / Transmitter

DGT1S Weight transmitter on DIN bar, with 2 INPUTS and 2 OUTPUTS. Fitted with 5-key keypad and LED display. Multifunction weighing program.

DGT1 Weight transmitter for DIN bar. 5-key keypad, LED display, date/time, alibi memory, and multifunction weighing program.

DGT4 Transmitter for DIN bar with 4 channels, 2 IN and 2 OUT. 5-key keypad, LED display, and standard weighing program.

DGTQ Transmitter for panel mounting, with 2 IN and 2 OUT. 5-key keypad, LED display, and standard weighing program.

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