

# SBX-1K SERIES SHEAR BEAM LOAD CELLS, from 3000kg to 5000kg

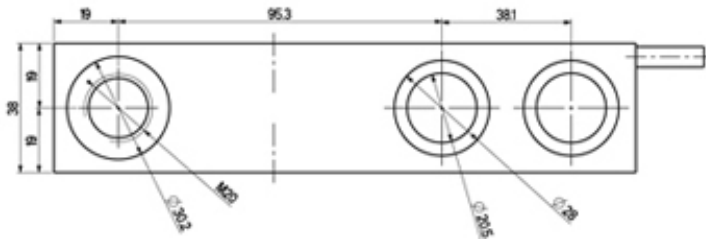
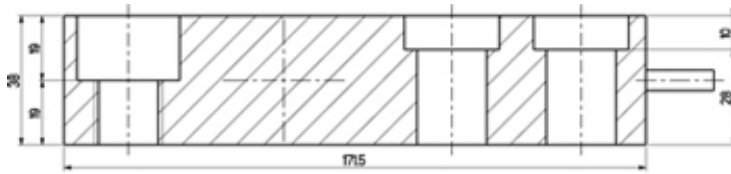


Stainless steel approved shear beam load cells, with capacities from 3000kg to 5000kg, with IP68 protection.

Particularly suitable for creating CE-M approved scales with 4 load cells, or for weighing tanks and hoppers, with the aid of its accessories.

## DIMENSIONS - DECODING STANDARD CABLE

- NOTE: dimensions in mm



- Decoding of the standard cable colours

Colour	Function
--	SHIELD
YELLOW	OUTPUT +
GREY	SENSE +
BROWN	INPUT +
WHITE	OUTPUT -
GREEN	INPUT -
PINK	SENSE -

## MAIN FEATURES

- 17-4 PH STAINLESS STEEL CONSTRUCTION WITH LASER WELDING
- IP68 PROTECTION
- MAX. CAPACITIES FROM 3000 TO 5000 kg
- SHIELDED CONNECTION CABLE
- TEST CERTIFICATE AVAILABLE UPON REQUEST

## TECHNICAL FEATURES

- Minimum load cell verification interval  $V_{min} = E_{Max} / 10.000$
- Maximum number of verification intervals:  $n_{LC} = 3000$
- Combined error 0,017% of Full Scale Output (F.S.)
- Full Scale Output 2mV/V +/- 0.5%
- Temperature effect on zero 0,002% / °C
- Temperature effect on full scale output 0,002% / °C
- Compensated Temperature Range -10°C/+50°C
- Operating Temperature Range -20°C/+60°C
- Creep error after 30 minutes 0,02% F.S.
- Maximum tolerated excitation voltage 15 VDC
- Input Resistance  $1100 \pm 20 \text{ Ohm}$
- Output Resistance  $1000 \pm 20 \text{ Ohm}$
- Insulation Resistance: >5000 MOhm
- Safe Overload 150% F.S.
- Ultimate Overload 300% F.S.
- 6-wire shielded cable, 5m long, 5 mm diameter

## EXTRAS AVAILABLE

- II 1GD ATEX Certificate for each load cell
- Declaration of ATEX conformity of the system (for the code see the pages of the atex weight indicators and MB4 atex barrier kit).

Code	(kg)	4 pcs
SBX3000-1K <b>M</b>	3000	SBX3000-1KC
SBX5000-1K <b>M</b>	5000	SBX5000-1KC

#### Extras available

Code	Description
<b>CCATEX</b>	ATEX certificate for each load cell for the following categories: II 1G Ex ia IIC T6 (Ta -20÷+40°C) TX (Ta -20÷+65°C) Ga and II 1D Ex ta IIIC TX°C (Ta -20÷+40°C) TX°C (Ta -20÷+65°C) Da IP65. Complete with manual and ATEX CE CONFORMITY DECLARATIONS (available in EN, DE, FR and IT).
<b>DCATEXMB4</b>	Declaration of ATEX conformity of the whole, Ex II 2GD IIC T6 T125°C X system, with relative label of whole system, for NON ATEX weight indicator connected to MB4 Dini Argeo zener barriers, connected to mechanical structure with ATEX load cells (each cell must be certified with CCATEX option). ATEX CONFORMITY DECLARATIONS will be supplied in English.

#### Assembly kits

Code	Description
<b>KSB5</b>	Kit of stainless steel plaits for assembling 1 shear beam load cells SB... series with capacity from 2500 kg