

SBT Series Shear Beam Nickel-Plated Load Cells, from 500kg to 2000kg



As of: Thursday, March 19,
2026



Standard Features

- C3 precision class
- Nickel-plated construction
- Potted seal, IP67 protection
- Max. capacities from 500 to 2000 kg
- Shielded connection cable
- Test certificate available upon request

CAPACITIES (kg): 500, 1000, 2000.

OIML R60 approved, NTEP (upon request). **C3** precision class.

Nickel-plated steel. **IP67** protection.

Output Resistance **350 Ohm**.

Dini Argeo nickel-plated approved load cells. The measures are compatible with the main shear beam load cells present on the market. They are suitable for creating CE-M approved scales with 4 load cells or for weighing conveyors, tanks and hoppers, thanks to their accessories.

Specifications

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.)

Nonlinearity:

$\pm 0.02\%$ FS

Hysteresis:

$\pm 0.02\%$ FS

Repeatability:

$\pm 0.01\%$ FS

Full Scale Output:

$2mV/V \pm 0.5\%$

Zero balance:

$\pm 1\%$ FS

Compensated Temperature Range:

$-10^{\circ}C/+50^{\circ}C$.

Operating Temperature Range:

$-20^{\circ}C/+60^{\circ}C$.

Creep error after 30 minutes:

$<0,02\%$ F.S.

Maximum tolerated excitation voltage:

15 Vdc

Input Resistance:

380 ± 20 Ohm

Output Resistance:

350 ± 5 Ohm

Insulation Resistance:

>5000 MOhm

Safe Overload:

120% F.S.

Ultimate Overload:

300% F.S.

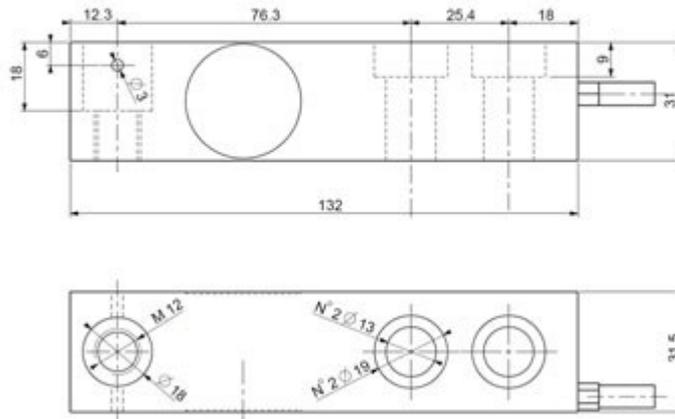
Shielded cable:

6-wire shielded cable, 3.5m long, 5 mm diameter

Wiring Code

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

Dimensions



Available versions

Code	Max (kg)
<u>SBT500</u>	500
<u>SBT1000</u>	1000
<u>SBT2000</u>	2000

Parts

Part # **Description**

Available Versions

SBT500 Shear beam approved load cell, C3, Max=500kg. Nickel-plated steel, IP67 protection rating, 350 Ohm output resistance.

SBT1000 Shear beam approved load cell, C3, Max=1000kg. Nickel-plated steel, IP67 protection rating, 350 Ohm output resistance.

SBT2000 Shear beam approved load cell, C3, Max=2000kg. Nickel-plated steel, IP67 protection rating, 350 Ohm output resistance.

Options

Part # Description

Joints

AVM12 Stainless steel/rubber M12 elastic joint for SBX/SBK/SBT cells up to 2500kg.

SBJ12 M12 ball joint for load cells

Base Plates

BPSB3 3 mm stainless steel base plate for SBT SBX SBK load cells up to 2500 kg. Size: 55 x 30 x 3 mm

BPSB5 5 mm stainless steel base plate for SBT SBX SBK load cells up to 2500 kg. Size: 55 x 30 x 5 mm

Mounting kits

KSBN2 Galvanized steel kit for assembling 1 SBT/SBK/SBX cell from 300 to 2500kg.

KSBC2 Alloy steel kit for assembling 1 SBT/SBK/SBX cell from 300 to 2500kg.

KSBX2 Stainless steel kit for assembling 1 SBT/SBK/SBX cell from 300 to 2500kg.

KSB2H Stainless steel articulated plate with M12x50mm threading. Applicable to SB.. load cells with capacity up to 2000 kg. To combine with BLKM12I bush.

Support feet for 4-cell platforms

SBFI-1 Stainless steel articulated foot with 50 mm non-slip rubber support base. Threading M12 x 1.75 x 43. For SBxx cells up to 2500kg . To combine with BLKM12I bush.

SBFP Nickel-plated steel articulated foot with 80 mm in ABS. Threading M12 x 1,75 x 30. To combine with BLKM12I bush.

KSB2FI-1 Stainless steel articulated foot with 60 mm non-slip rubber support base. Threading M12 x 1.75 x 46.

SBFA Nickel-plated steel articulated foot with 60 mm non-slip rubber support base. Threading M12 x 1.75 x 45.

BLKM12I Stainless steel M12 bush.

Stay Rod

LNK2635 Galvanized stay rod with ball-and-socket joints. Max 100 kN. For proper installation, 2xLNKST are needed. Note: They can't be ATEX-certified.

LNKST Single plate for stay rod. Fitted with fixing screw. (For proper installation, LNK2635 and a second LNKST are needed). Note: They can't be ATEX-certified.

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.

Part # Description

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

Kit for Assembling 4 Cells Platforms / Scales

PLT405C3 Kit 4 x SBT500, 4 x SBFA, 4 x BLKM12I, 1 x JB4Q (4 IP67 nikel-plated steel load cells with 500kg capacity, 4 nikel-plated steel adjustable resting feet, 4 bushings and IP67 ABS junction box).

PLT410C3 Kit 4 x SBT1000, 4 x SBFA, 4 x BLKM12I, 1 x JB4Q (4 IP67 nikel-plated steel load cells with 1000kg capacity, 4 nikel-plated steel adjustable resting feet, 4 bushings and IP67 ABS junction box).

PLT420C3 Kit 4 x SBT2000, 4 x SBFA, 4 x BLKM12I, 1 x JB4Q (4 IP67 nikel-plated steel load cells with 2000kg capacity, 4 nikel-plated steel adjustable resting feet, 4 bushings and IP67 ABS junction box).

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).

LCCBM Shielded 4x0,34 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 Ø 15mm. Maximum orderable length: 100 m (longer lengths available only upon request).

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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