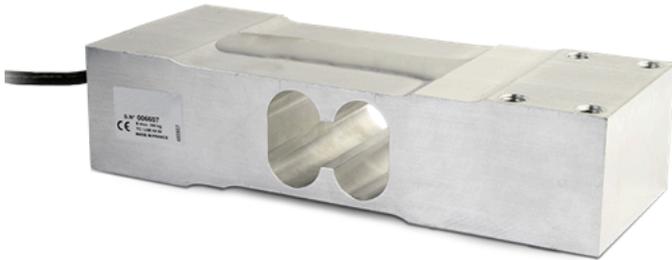


SPBC Series Off-Center Load Cells



Standard Features

- C3 precision class
- Off center load compensated
- Made in aluminium alloy
- IP65 protection
- capacities from 100 to 630kg
- For platforms with dimensions up to 700 x 700 mm
- Shielded connection cable
- OIML certificate available upon request
- Test certificate available upon request

CAPACITIES (kg): 100, 200, 300, 500, 630.

OIML R60. C3 precision class.

Aluminium alloy. **IP65** protection.

Load cells for off center loads, suitable for example to build CE-M approved scales with a single load cell with maximum dimensions of 700x700 mm.

Specifications

Minimum load cell verification interval:

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

Maximum number of verification intervals:

$n_{LC} = 3000$

Full Scale Output:

2mV/V +/- 10%

Combined error:

0,017% of Full Scale Output (F.S.)

Temperature effect on zero:

0,0014% /°C

Temperature effect on full scale output:

0,0014% /°C

Compensated Temperature Range:

-10°C/+40°C

Operating Temperature Range:

-20°C/+60°C

Creep error after 30 minutes:

0,025% F.S.

Maximum tolerated excitation voltage:

15 VDC

Input Resistance:

410 ± 20 Ohm

Output Resistance:

350 ± 5 Ohm

Zero Balance:

+/-10% F.S.

Insulation Resistance:

>1000 MOhm

Safe Overload:

150% F.S.

Ultimate Overload:

200% F.S.

Nominal displacement:

< 1mm

Shielded cable:

SPBC 6-wire shielded cable, 3m long,

Wiring Code

SPBC Wiring Code	
<u>Colour</u>	<u>Function</u>
--	SHIELD
YELLOW	OUTPUT +
GREY	SENSE +
BROWN	INPUT +
WHITE	OUTPUT -
GREEN	INPUT -
PINK	SENSE -

ATEX Version

The CCATEX certificate makes the load cell suitable for use in hazardous areas with protection methods according to:

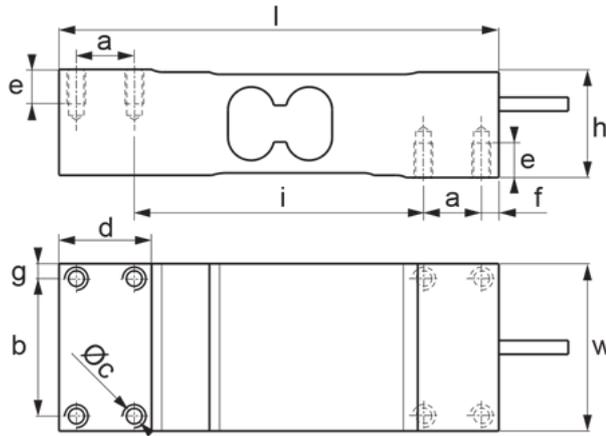
ATEX II 1G Ex ia IIC T6 (Ta -20:++40°C) TX (Ta -20:++65°C) Ga

ATEX II 1D Ex ta IIIC TX°C (Ta -20:++40°C) TX°C (Ta -20:++65°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.

Dimensions



Code	Max (kg)	Plate Max (mm)	l (mm)	w (mm)	h (mm)	a (mm)	b (mm)	c Ø (mm)	d (mm)	e (mm)
<u>SPBC100</u>	100	700 x 700	190	73	47	25	60	N°8 x M8	40	15
<u>SPBC200</u>	200	700 x 700	190	73	47	25	60	N°8 x M8	40	15
<u>SPBC300</u>	300	700 x 700	190	73	47	25	60	N°8 x M8	40	15
<u>SPBC500</u>	500	700 x 700	190	73	47	25	60	N°8 x M8	40	15
<u>SPBC630</u>	630	700 x 700	190	73	47	25	60	N°8 x M8	40	15

Parts

Part # **Description**

Available Versions

SPBC100	Single point approved load cell, C3, Max=100kg. Aluminium alloy, IP65 protection degree, 350 Ohm output resistance.
SPBC200	Single point approved load cell, C3, Max=200kg. Aluminium alloy, IP65 protection degree, 350 Ohm output resistance.
SPBC300	Single point approved load cell, C3, Max=300kg. Aluminium alloy, IP65 protection degree, 350 Ohm output resistance.
SPBC500	Single point approved load cell, C3, Max=500kg. Aluminium alloy, IP65 protection degree, 350 Ohm output resistance.
SPBC630	Single point approved load cell, C3, Max=630kg. Aluminium alloy, IP65 protection degree, 350 Ohm output resistance.

Options

Part # **Description**

Options for ATEX Version

LCCB	Shielded cable 6x0.25 mm ² (suitable for Ex zones). PVC inner sheath. Tinned copper braid shielding. PVC outer sheath, diameter 5.8 mm. Temperature range: -40 / +80 °C. Minimum bend radius >= 7 x O.D. €/m. Maximum orderable length: 100 m (longer lengths available only upon request).
LCCBA	Armoured cable 6x0.25 mm ² (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 bend radius >= 7 x O.D. €/m. Maximum orderable length: 100 m (longer lengths available only upon request).
EXCB6	Blue shielded cable 6x0.22 mm ² , only for EX i (2GD) assemblies. PVC inner sheath. Tinned copper braid shielding. Polyurethane outer sheath, diameter 5.8 mm. Temperature range: -40 / +80 °C. Minimum bend radius >= 7 x O.D. €/m. Maximum orderable length: 100 m (longer lengths available only upon request).
CCATEX-1	Optional ATEX version for single load cell. Marking: ATEX II 1G Ex ia IIC T6 (Ta -20++40°C) TX (Ta -20++65°C) Ga and ATEX II 1D Ex ta IIIC TX°C (Ta -20++40°C) TX°C (Ta -20++65°C) Da IP65. Complete with manual and ATEX EU declaration of conformity (EN, DE, FR, ES and IT).
CCATEX3GD	ATEX certificate for each load cell. Marking: ATEX II 3G Ex nA IIC T6 Gc for gas and ATEX II 3D Ex tc IIIC T115°C Dc IP65 for dusts. Complete with manual and ATEX CE conformity declaration (EN, DE, FR, ES and IT).

