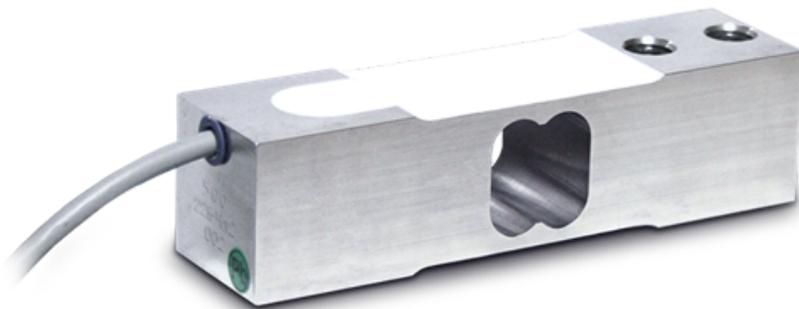


SPSX Series Single Point Stainless Steel Load Cells



Standard Features

- C3 precision class
- Off center load compensated
- Made in 17-4 ph stainless steel
- IP67 protection
- Max. capacities from 100 to 500 kg
- For platforms with dimensions up to 600 x 800 mm
- Shielded connection cable
- Test certificate available upon request

CAPACITIES (kg): 100, 300, 500.

OIML R60. C3 precision class.

17-4 PH stainless steel. IP67 protection.

Stainless steel load cells for off center loads, suitable for example to build CE-M approved scales with a single load cell with maximum dimensions of 600x800 mm.

Specifications

Minimum load cell verification interval:
EMax / 10.000-15.000

Maximum number of verification intervals:
nLC = 3000

Full Scale Output:
2mV/V $\pm 10\%$

Temperature effect on full scale output:
0,011% F.S./10K (-10°C/+20°C) 0,017% F.S./10K (+20°C/+40°C)

Temperature effect on zero:
From $\pm 0,0093\%$ F.S./10K to $\pm 0,0140\%$ F.S./10K

Compensated temperature range:
-10°C/+40°C

Operating temperature range:
-10°C/+50°C

Maximum tolerated excitation voltage:
15 VDC

Input Resistance:
390 \pm 15 Ohm

Output Resistance:
359 \pm 10 Ohm

Insulation Resistance:
>2.000 MOhm

Safe Overload:
150% F.S.

Breaking load:
300% F.S.

Nominal displacement:
< 0,5mm

Shielded cable:
6-wire, 3m long, 5mm diameter

Wiring Code

Wiring Code	
<i>Colour</i>	<i>Function</i>
WHITE	OUTPUT +
GREEN	SENSE +
BLUE	INPUT +
RED	OUTPUT -
BLACK	INPUT -
GREY	SENSE -

ATEX Version

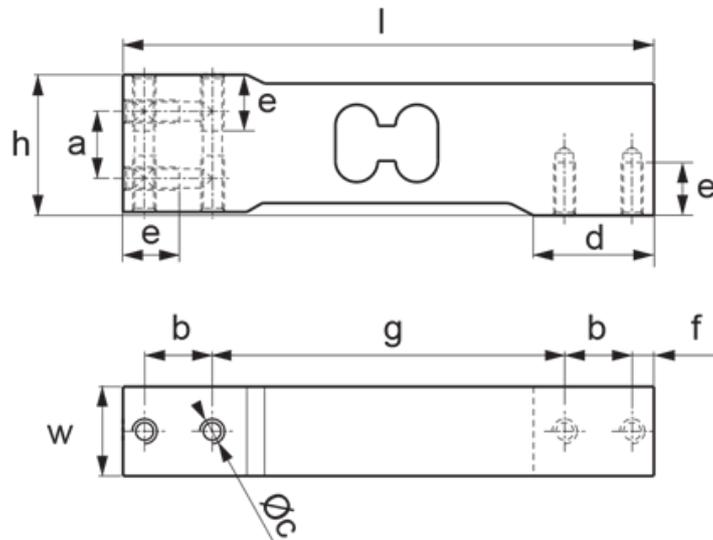
The CCATEX certificate makes the load cell suitable for use in hazardous areas with protection methods according to:

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)	f (mm)
<u>SPSX100</u>	100	600 x 800	139,7	30,5	30,2	22,4	79,3	N°4 x M10	38	7,8	15
<u>SPSX300</u>	300	600 x 800	139,7	30,5	30,2	22,4	79,3	N°4 x M10	38	7,8	15
<u>SPSX500</u>	500	600 x 800	139,7	30,5	30,2	22,4	79,3	N°4 x M10	38	7,8	15

Parts

Part # Description

Available Versions

SPSX100 Single point approved load cell, C3, Max=100kg in stainless steel, IP67 protection degree, 359 Ohm output resistance.

SPSX300 Single point approved load cell, C3, Max=300kg in stainless steel, IP67 protection degree, 359 Ohm output resistance.

SPSX500 Single point approved load cell, C3, Max=500kg in stainless steel, IP67 protection degree, 359 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 bending radius $\geq 6 \times$ 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 bending radius $\geq 5 \times$ 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 bending radius $\geq 7 \times$ 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 \div +40°C) TX (Ta -20 \div +65°C) Ga and ATEX II 1D Ex ta IIIC TX°C (Ta -20 \div +40°C) TX°C (Ta -20 \div +65°C) Da IP65. Provided with safety instructions and the 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 (available in EN, DE, FR and IT).

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