

# SPSW Series Singles Point Stainless Steel Load Cells



## Standard Features

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- C3 precision class
- Off center load compensated
- Made in 17-4 ph stainless steel
- IP67 protection
- Max. capacities from 7.5 to 200 kg
- For platforms with dimensions up to 500 x 400 mm
- Shielded connection cable
- Test certificate available upon request

**CAPACITIES (kg):** 7.5, 15, 30, 50, 100, 200.

**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 500x400 mm.

## Specifications

**Minimum load cell verification interval:**

$V_{min} = E_{Max} / 10.000-15.000$

**Maximum number of verification intervals:**

$n_{LC} = 3000$

**Full Scale Output:**

2mV/V +/- 10%

**Temperature effect on zero:**

from  $\pm 0,0093\%$  F.S./10K to  $\pm 0,0140\%$  F.S./10K

**Temperature effect on full scale output:**

$\pm 0,0117\%$  F.S./10K (-10°C/+20°C)  
 $\pm 0,0175\%$  F.S./10K (+20°C/+40°C)

**Compensated Temperature Range:**

-10°C/+40°C

**Operating Temperature Range:**

-10°C/+50°C

**Creep at nominal load in 30 minutes:**

$\pm 0,01\%$  F.S.

**Maximum tolerated excitation voltage:**

15 VDC

**Input Resistance:**

380  $\pm$  15 Ohm

**Output Resistance:**

359  $\pm$  5 Ohm

**Insulation Resistance at 100V:**

>1000 MOhm

**Safe Overload:**

150% F.S.

**Ultimate Overload:**

300% F.S.

**Nominal displacement:**

< 0.5 mm

**Shielded cable:**

6-wire shielded cable, 3m long, 5mm di

## Wiring Code

Wiring Code	
Colour	Function
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:

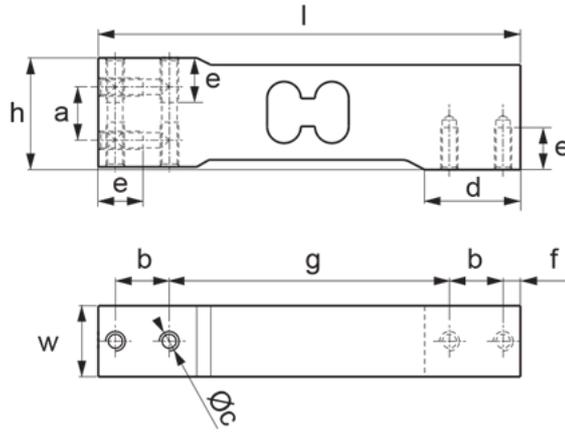
ATEX II 1G Ex ia IIC T6 (Ta -20 $\pm$ +40°C) TX (Ta -20 $\pm$ +65°C) Ga

ATEX II 1D Ex ta IIIC TX°C (Ta -20 $\pm$ +40°C) TX°C (Ta -20 $\pm$ +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)	g (mm)
<u>SPSW7.5</u>	7,5	500 x 400	150	25	40	19	100	N°4 x M6	N°2 x M6	M6	M6	35
<u>SPSW15</u>	15	500 x 400	150	25	40	19	100	N°4 x M6	N°2 x M6	M6	M6	35
<u>SPSW30</u>	30	500 x 400	150	25	40	19	100	N°4 x M6	N°2 x M6	M6	M6	35
<u>SPSW50</u>	50	500 x 400	150	25	40	19	100	N°4 x M6	N°2 x M6	M6	M6	35
<u>SPSW100</u>	100	500 x 400	150	25	40	19	100	N°4 x M6	N°2 x M6	M6	M6	35
<u>SPSW200</u>	200	500 x 400	150	25	40	19	100	N°4 x M6	N°2 x M6	M6	M6	35

## Parts

### Part # Description

#### Available Versions

<u>SPSW7.5</u>	Single point approved load cell, C3, Max=7,5kg in stainless steel, IP67 protection degree, 359 Ohm output resistance.
<u>SPSW15</u>	Single point approved load cell, C3, Max=15kg in stainless steel, IP67 protection degree, 359 Ohm output resistance.
<u>SPSW30</u>	Single point approved load cell, C3, Max=30kg in stainless steel, IP67 protection degree, 359 Ohm output resistance.
<u>SPSW50</u>	Single point approved load cell, C3, Max=50kg in stainless steel, IP67 protection degree, 359 Ohm output resistance.
<u>SPSW100</u>	Single point approved load cell, C3, Max=100kg in stainless steel, IP67 protection degree, 359 Ohm output resistance.
<u>SPSW200</u>	Single point approved load cell, C3, Max=200kg in stainless steel, IP67 protection degree, 359 Ohm output resistance.

## Options

### Part # Description

#### Options for ATEX Version

<u>LCCB</u>	Shielded cable 6x0.25 mm <sup>2</sup> (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 >= 5 x O.D. €/m. Maximum orderable length: 100 m (longer lengths available only upon request).
<u>LCCBA</u>	Armoured cable 6x0.25 mm <sup>2</sup> (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).
<u>EXCB6</u>	Blue shielded cable 6x0.22 mm <sup>2</sup> , 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).
<u>CCATEX-1</u>	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. instructions and the ATEX EU declaration of conformity (EN, DE, FR, ES and IT).
<u>CCATEX3GD</u>	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 and IT).

