

SPSC SERIES SINGLE POINT STAINLESS STEEL LOAD CELLS



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 600x600 mm.

MAIN FEATURES

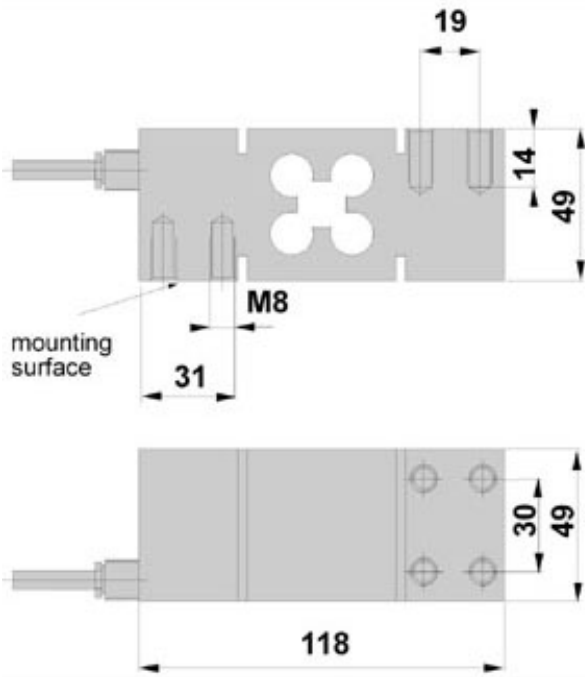
- C3 PRECISION CLASS
- OFF CENTER LOAD COMPENSATED
- MADE IN 17-4 PH STAINLESS STEEL
- IP68 PROTECTION
- MAX. CAPACITIES FROM 100 TO 500 kg
- FOR PLATFORMS WITH DIMENSIONS UP TO 600 X 600 mm
- SHIELDED CONNECTION CABLE
- TEST CERTIFICATE AVAILABLE UPON REQUEST

TECHNICAL FEATURES

- Minimum load cell verification interval: $V_{min} = E_{Max} / 10.000$
- Maximum number of verification intervals: $n_{LC} = 3000$
- Full Scale Output: $2mV/V \pm 10\%$
- Temperature effect on zero: $0,0014\% / ^\circ C$
- Temperature effect on full scale output: $0,0013\% / ^\circ C$
- Compensated Temperature Range: $-10^\circ C / +40^\circ C$
- Operating Temperature Range: $-30^\circ C / +85^\circ C$
- Creep error after 4 hours: $0,03\% F.S.$
- Maximum tolerated excitation voltage: 15 VDC
- Input Resistance: $382 \pm 10 \text{ Ohm}$
- Output Resistance: $350 \pm 3 \text{ Ohm}$
- Zero Balance: $\pm 2\% F.S.$
- Insulation Resistance: $>5000 \text{ MOhm}$
- Safe Overload: $150\% F.S.$
- Ultimate Overload: $300\% F.S.$
- Nominal displacement: $< 0.3 \text{ mm}$
- 6-wire shielded cable, 3m long, 5mm diameter

Certifications

- 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)



dimensions in mm

Wiring Code	
Colour	Function
GREEN	OUTPUT +
PURPLE	SENSE +
RED	INPUT +
WHITE	OUTPUT -
BLACK	INPUT -
GREY	SENSE -

Available Models

Code	Max (kg)	Platform l x w Max (mm)	Masterpack 4 pcs
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SPSC100	100	600 x 600	SPSC100C
SPSC200	200	600 x 600	SPSC200C
SPSC500	500	600 x 600	SPSC500C

Certification

Code	Description
CCATEX	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).
DCATEXMB4	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.