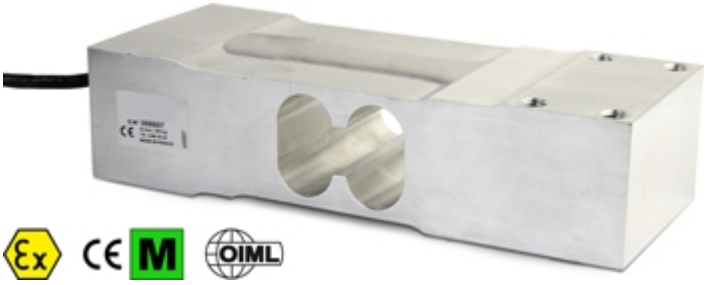
DINI ARGEO

A RICE LAKE WEIGHING SYSTEMS COMPANY

SPBC

SPBC SERIES SINGLE POINT LOAD CELLS



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.

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

OIML R60. C3 precision class.

Aluminium alloy. **IP65** protection.

The best solution for advanced industrial applications

MAIN FEATURES

- C3 PRECISION CLASS
- OFF CENTER LOAD COMPENSATED
- MADE IN ALUMINIUM ALLOY
- IP65 PROTECTION
- MAX. 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

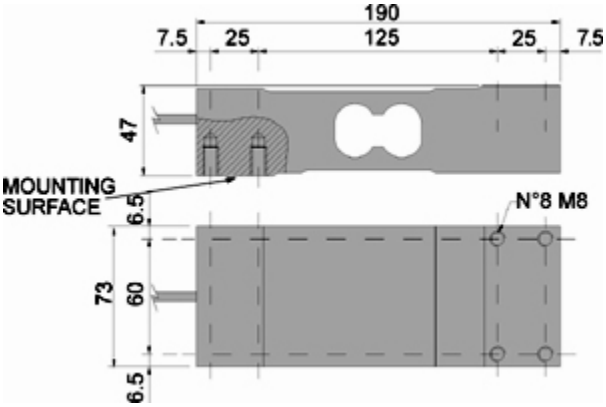
TECHNICAL FEATURES

- Minimum load cell verification interval: Vmin = EMax / 10.000
- Maximum number of verification intervals: nLC = 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
- SPBC 6-wire shielded cable, 3m long, 5mm diameter

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.

DETAIL 1



Dimensions (mm)

SPBC Wiring Code	
Colour	*Function*
--	SHIELD
YELLOW	OUTPUT +
GREY	SENSE +
BROWN	INPUT +
WHITE	OUTPUT -
GREEN	INPUT -
PINK	SENSE -

VERSIONS

Available versions

Codice	Piatto Max (mm)	Max (kg)
SPBC100	700x700	100
SPBC200	700x700	200
SPBC300	700x700	300
SPBC500	700x700	500
SPBC630	700x700	630

www.diniargeo.com

DINI ARGEO FRANCE sarl	DINI ARGEO GMBH	DINI ARGEO UK Ltd	DINI ARGEO WEIGHING INSTRUMENTS Ltd	DINI ARGEO OCEANIA
France	Germany	United Kingdom	China	Australia

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A RICE LAKE WEIGHING SYSTEMS COMPANY

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SALES AND TECHNICAL ASSISTANCE SERVICE

All the specifications and images can be subject to variations and upgrades without prior notice.