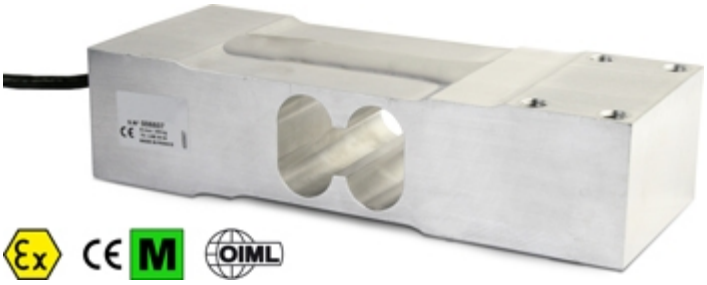
DINI ARGEO
Scales - Weighing systems

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.

Aluminium alloy. IP65 protection. C3 precision class.

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

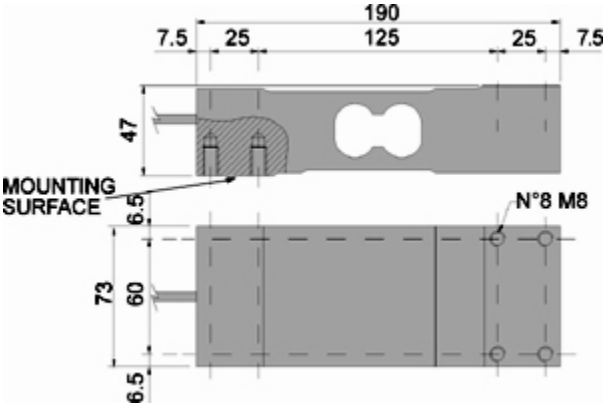
TECHNICAL FEATURES

- 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: 0,0028% /°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 ± 10 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 Models

Code	Max (kg)	Platform l x w Max (mm)
SPBC100	100	700x700
SPBC200	200	700x700
SPBC300	300	700x700
SPBC500	500	700x700
SPBC630	630	700x700

www.diniargeo.com



DINI ARGEO FRANCE sarl
Nogent-sur-Marne
info.fr@diniargeo.com

DINI ARGEO GMBH
Sinsheim - Germany
info.de@diniargeo.com

DINI ARGEO UK Ltd
Taunton - United Kingdom
info.uk@diniargeo.com

DINI ARGEO WEIGHING INSTRUMENTS Ltd
Shanghai - China
info.cn@diniargeo.com

DINI ARGEO WEIGHBRIDGES
Calto (RO) – Italy
info@diniargeo.com

DINI ARGEO
Scales - Weighing systems

ATEX

ISO 9001:2008

HEAD OFFICE
Via Della Fisica, 20
41042 Spezzano di Fiorano Modena - Italy
Tel. +39.0536 843418 Fax. +39.0536 843521
info@diniargeo.com

SERVICE ASSISTANCE
Via Dell'Elettronica, 15
41042 Spezzano di Fiorano Modena - Italy
Tel. +39.0536 921784 Fax. +39.0536 926654
service@diniargeo.com

SALES AND TECHNICAL ASSISTANCE SERVICE