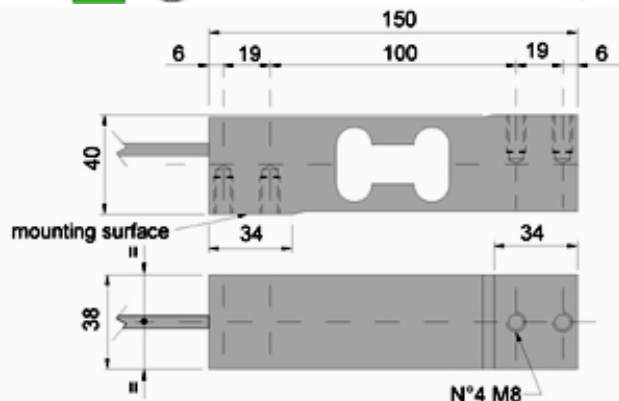
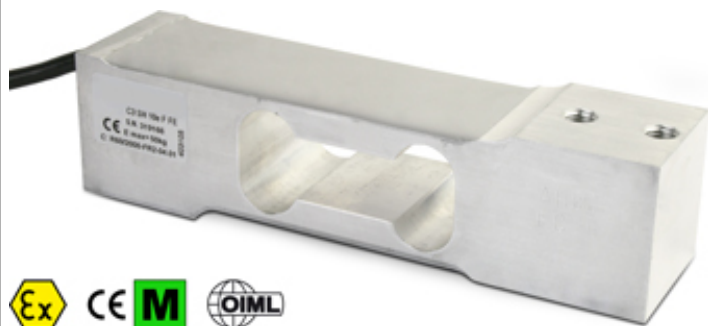


SPH SERIES SINGLE POINT LOAD CELLS



Dimensions (mm)

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

Load cells for off center loads, suitable for example to build CE-M approved scales with a single load cell.

MAIN FEATURES

- C3 PRECISION CLASS
- OFF CENTER LOAD COMPENSATED
- ALUMINIUM ALLOY CONSTRUCTION
- IP65 PROTECTION
- CAPACITIES FROM 50 TO 200 kg
- FOR PLATFORMS WITH DIMENSIONS UP TO 500 X 500 mm
- SHIELDED CONNECTION CABLE
- OIML CERTIFICATE AVAILABLE UPON REQUEST
- 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: $2mV/V \pm 10\%$
- Combined error: 0,017% of Full Scale Output (F.S.)
- Temperature effect on zero: $0,0028\% / ^\circ C$
- Temperature effect on full scale output: $0,0014\% / ^\circ C$
- Compensated Temperature Range: $-10^\circ C / +40^\circ C$
- Operating Temperature Range: $-20^\circ C / +60^\circ C$
- Creep error after 20 minutes: 0,025% F.S.
- Maximum tolerated excitation voltage: 15 VDC
- Input Resistance: $410 \pm 20 \text{ Ohm}$
- Output Resistance: $350 \pm 5 \text{ Ohm}$
- Zero Balance: $\pm 10\% \text{ F.S.}$
- Insulation Resistance: $> 1000 \text{ MOhm}$
- Safe Overload: 150% F.S.
- Ultimate Overload: 200% F.S.
- Nominal displacement: $< 0.8 \text{ mm}$
- 6-wire shielded cable, 3m long, 5mm diameter

EXTRAS AVAILABLE (at time of order)

- OIML R60 certificate (without surcharge)
- II 1GD ATEX Certificate for each load cell (with surcharge)
- Declaration of ATEX conformity of the system (for the code see the pages of the atex weight indicators and MB4 atex barrier kit)

Code	Max (kg)	Platform l x w Max (mm)	Masterpack 4 pcs
SPH50 	50	500x500	SPH50C
SPH100 	100	500x500	SPH100C
SPH200 	200	500x500	SPH200C

Certification

Code	Description
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.
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).