

SPG_C6

SPG SERIES SINGLE POINT LOAD CELLS, C6 CLASS



Load cells for off center loads, suitable for example to build CE-M approved scales with a single load cell; maximum platform dimensions of 450x450 mm.

CAPACITIES (kg): 7, 10, 18, 36.

OIML R60. C6 precision class.

Aluminium alloy. **IP67** protection.

The best solution
for advanced industrial
applications

MAIN FEATURES

- C6 PRECISION CLASS
- OFF CENTER LOAD COMPENSATED
- ALUMINIUM ALLOY CONSTRUCTION
- IP67 PROTECTION
- MAX. CAPACITIES FROM 7 TO 36 kg
- FOR PLATFORMS WITH DIMENSIONS UP TO 450 X 450 mm
- SHIELDED CONNECTION CABLE
- OIML CERTIFICATE AVAILABLE UPON REQUEST
- TEST CERTIFICATE AVAILABLE UPON REQUEST

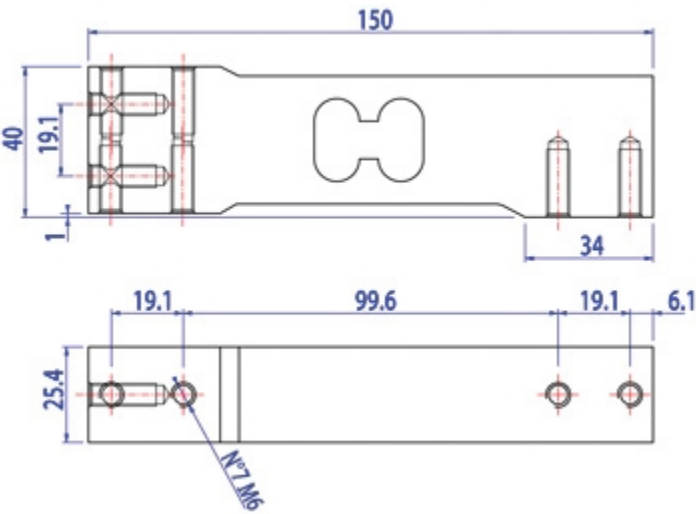
TECHNICAL FEATURES

- Minimum load cell verification interval:
 $V_{min} = E_{Max} / 14.000-25.000$
- Maximum number of verification intervals: $n_{LC} = 6000$
- Sensitivity: $2mV/V \pm 10\%$
- Temperature effect on zero:
7kg: $\pm 0,0084\% \text{ F.S./10K}$
10kg: $\pm 0,0070\% \text{ F.S./10K}$
18kg: $\pm 0,0070\% \text{ F.S./10K}$
36kg: $\pm 0,0070\% \text{ F.S./10K}$
- Temperature effect on Full Span:
range $-10^{\circ}\text{C}/+20^{\circ}\text{C}$: $0,0058\% \text{ F.S./10K}$
range $+20^{\circ}\text{C}/+40^{\circ}\text{C}$: $0,0087\% \text{ F.S./10K}$
- Compensated Temperature Range: $-10^{\circ}\text{C}/+40^{\circ}\text{C}$
- Operating Temperature Range: $-10^{\circ}\text{C}/+50^{\circ}\text{C}$
- Maximum excitation voltage without damage: 15 Vdc
- Input Resistance: 300..500 Ohm
- Output Resistance: 300..500 Ohm
- Zero Balance: $0 \pm 0,1mV/V$ (at 100V)
- Insulation Resistance: $>2000 \text{ MOhm}$
- Mechanical limit load in service: 150% F.S.
- Destructive load: 300% F.S.
- Deflection at nominal load $<0,5mm$
- 6-wire shielded cable, 3m long, 4,7mm 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 $-20^{\circ}\div +40^{\circ}\text{C}$) TX (Ta $-20^{\circ}\div +65^{\circ}\text{C}$) Ga
ATEX II 1D Ex ta IIIC TX $^{\circ}\text{C}$ (Ta $-20^{\circ}\div +40^{\circ}\text{C}$) TX $^{\circ}\text{C}$ (Ta $-20^{\circ}\div +65^{\circ}\text{C}$) 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)

Wiring Code	
Colour	Function
YELLOW	SHIELD
WHITE	OUTPUT +
GREEN	SENSE +
BLUE	INPUT +
RED	OUTPUT -
GREY	SENSE -
BLACK	INPUT -

VERSIONS

Available versions		
Codice	Piatto Max (mm)	Max (kg)
SPG7C6-1 	300x300	7
SPG10C6-1 	300x300	10
SPG18C6-1 	400x400	18
SPG36C6-1 	450x450	36
SPG50C6-1 	600x600	50



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