

SPG

SPG SERIES SINGLE POINT LOAD CELLS, C3 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 600x600 mm.

CAPACITIES (kg): 10, 15, 20, 30, 50, 100, 200.

OIML R60. C3 precision class.

Aluminium alloy. **IP67** protection.

The best solution
for advanced industrial
applications

MAIN FEATURES

- C3 PRECISION CLASS
- OFF CENTER LOAD COMPENSATED
- ALUMINIUM ALLOY CONSTRUCTION
- IP67 PROTECTION
- MAX. CAPACITIES FROM 10 TO 200 kg
- FOR PLATFORMS WITH DIMENSIONS UP TO 600 X 600 mm
- SHIELDED CONNECTION CABLE
- OIML CERTIFICATE AVAILABLE UPON REQUEST
- TEST CERTIFICATE AVAILABLE UPON REQUEST

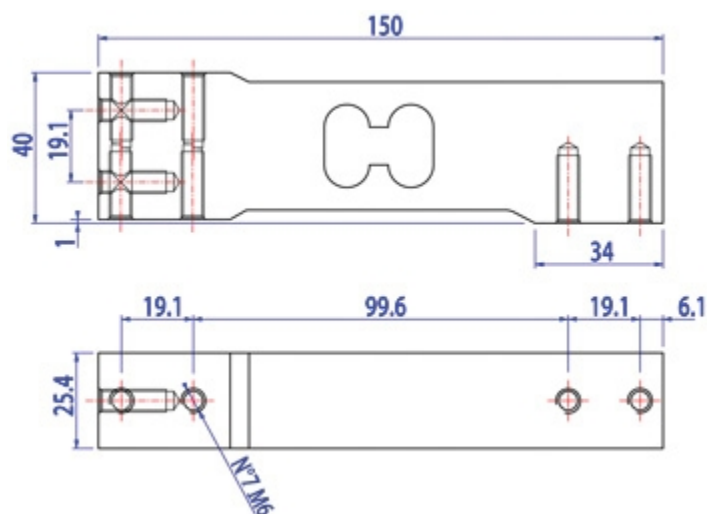
TECHNICAL FEATURES

- Minimum load cell verification interval:
 $V_{min} = E_{Max} / 10.000-15.000$
- Maximum number of verification intervals: $n_{LC} = 3000$
- 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 $-10^{\circ}C/+20^{\circ}C$: $0,0058\% \text{ F.S./}10K$
range $+20^{\circ}C/+40^{\circ}C$: $0,0087\% \text{ F.S./}10K$
- Compensated Temperature Range: $-10^{\circ}C/+40^{\circ}C$
- Operating Temperature Range: $-10^{\circ}C/+50^{\circ}C$
- Maximum excitation voltage without damage: 15 Vdc
- Input Resistance: 300..500 Ohm
- Output Resistance: 300..500 Ohm
- Zero Balance: $0 \pm 0,12 \text{ mV/V (at } 100 \text{ V)}$
- Insulation Resistance: $>2000 \text{ MOhm}$
- Mechanical limit load in service: 150% F.S.
- Destructive load: 300% F.S.
- Deflection at nominal load $<0,5\text{mm}$
- 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 $-20^{\circ}C/+40^{\circ}C$) TX (Ta $-20^{\circ}C/+65^{\circ}C$) Ga
ATEX II 1D Ex ta IIIC TX $^{\circ}C$ (Ta $-20^{\circ}C/+40^{\circ}C$) TX $^{\circ}C$ (Ta $-20^{\circ}C/+65^{\circ}C$) 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) |
|--|--------------------|-------------|
| SPG10-1  | 300x300 | 10 |
| SPG15-1  | 450x450 | 15 |
| SPG20-1  | 450x450 | 20 |
| SPG30-1  | 450x450 | 30 |
| SPG50-1  | 600x600 | 50 |
| SPG100-1  | 600x600 | 100 |
| SPG200-1  | 600x600 | 200 |



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