

## SPO

### SPO 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 300x300 mm.

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**CAPACITIES (kg):** 3, 5, 10, 15, 20, 30, 40.

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**OIML R60. C3** precision class.

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**Aluminium** alloy. **IP67** protection.

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The best solution  
for advanced industrial  
applications

## MAIN FEATURES

- C3 PRECISION CLASS
- OFF CENTER LOAD COMPENSATED
- ALUMINIUM ALLOY CONSTRUCTION
- IP67 PROTECTION
- MAX. CAPACITIES FROM 3 TO 40 kg
- FOR PLATFORMS WITH DIMENSIONS UP TO 300 X 300 mm
- SHIELDED CONNECTION CABLE
- OIML AND TEST CERTIFICATES AVAILABLE UPON REQUEST

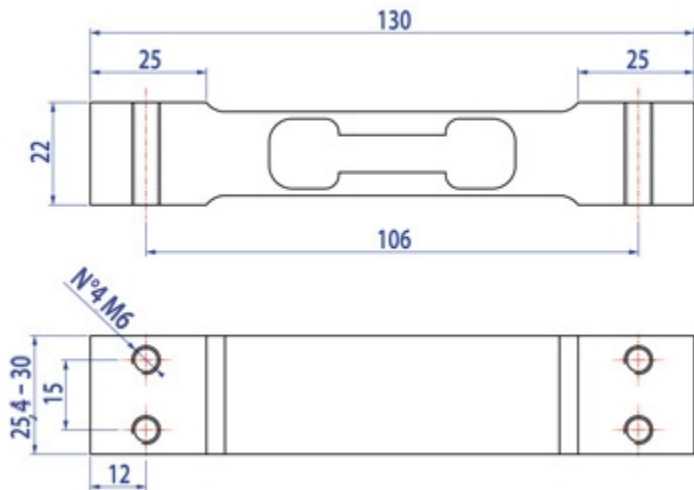
## TECHNICAL FEATURES

- Minimum load cell verification interval:  
 $V_{min} = E_{Max}/8.000-15.000$
- Maximum number of verification intervals:  $n_{LC} = 3000$
- Full Scale Output:  $2mV/V \pm 10\%$
- Temperature effect on zero:  
from  $\pm 0,0093\%$  F.S./10K to  $\pm 0,0175\%$  F.S./10K
- Temperature effect on full scale output:  
 $0,0117\%$  F.S./10K (-10°C/+20°C)  $0,0175\%$  F.S./10K (+20°C/+40°C)
- Compensated Temperature Range: -10°C/+40°C
- Operating Temperature Range: -10°C/+50°C
- Maximum tolerated excitation voltage: 15 VDC
- Input Resistance: 300..500 Ohm
- Output Resistance: 300..500 Ohm
- Insulation Resistance: >2000 MOhm
- Safe Overload: 150% F.S.
- Ultimate Overload: 300% F.S.
- 4-wire shielded cable, 40cm long, 3,2mm 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 in mm

<u>Wiring Code</u>	
<u>Color</u>	<u>Function</u>
YELLOW	SHIELD
WHITE	OUTPUT +
BLUE	INPUT +
RED	OUTPUT -
BLACK	INPUT -

## VERSIONS

### Available versions

Codice	Piatto Max (mm)	Max (kg)
SPO3-1 	150x150	3
SPO5-1 	300x300	5
SPO10-1 	300x300	10
SPO15-1 	300x300	15
SPO20-1 	300x300	20
SPO30-1 	300x300	30
SPO40-1 	300x300	40



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