

## 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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Working in cooperation with:

**INOBALT UAB**

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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

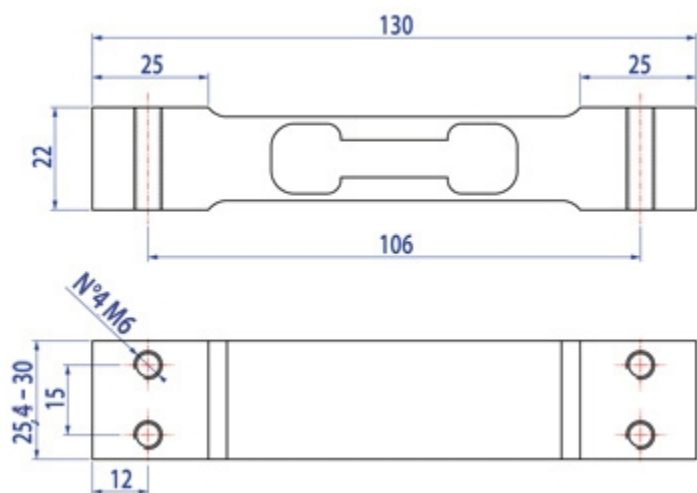
## TECHNICAL FEATURES

- Minimum load cell verification interval:  $V_{min} = E_{Max}/15.000$
- Maximum number of verification intervals:  $n_{LC} = 3000$
- Full Scale Output:  $2mV/V \pm 10\%$
- Temperature effect on zero:  $0,01\% FS/10K$
- Temperature effect on full scale output:  $0,001\%FS /10K$
- Compensated Temperature Range:  $-10^{\circ}C/+40^{\circ}C$
- Operating Temperature Range:  $-10^{\circ}C/+50^{\circ}C$
- Creep error after 30 minutes:  $0,01\% F.S$
- 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  $-20\div+40^{\circ}C$ ) TX (Ta  $-20\div+65^{\circ}C$ ) Ga  
ATEX II 1D Ex ta IIIC TX $^{\circ}C$  (Ta  $-20\div+40^{\circ}C$ ) TX $^{\circ}C$  (Ta  $-20\div+65^{\circ}C$ ) 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 in mm

Wiring Code	
Color	Function
YELLOW	SHIELD
WHITE	OUTPUT +
BLUE	INPUT +
RED	OUTPUT -
BLA	INPUT -

## VERSIONS

### Available versions

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



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SALES AND TECHNICAL ASSISTANCE SERVICE