

SPSY

SPSY SERIES SINGLE POINT STAINLESS STEEL LOAD CELLS



Stainless steel load cells for off center loads, suitable for example to build CE-M approved scales with a single load cell with maximum dimensions of 500x400 mm.

CAPACITIES (kg): 10, 20, 50, 100.

OIML R60. C3 precision class.

17-4 PH stainless steel. **IP68/IP69K** protection.

The best solution
for advanced industrial
applications

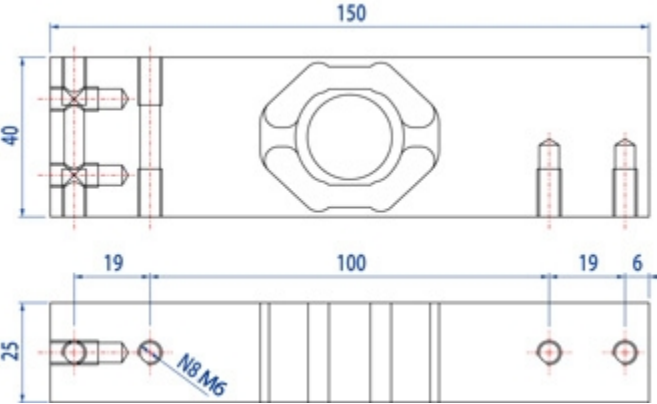
MAIN FEATURES

- C3 PRECISION CLASS
- OFF CENTER LOAD COMPENSATED
- MADE IN 17-4 PH STAINLESS STEEL
- IP68/IP69K PROTECTION
- MAX. CAPACITIES FROM 10 TO 100 kg
- FOR PLATFORMS WITH DIMENSIONS UP TO 500 X 400 mm
- SHIELDED CONNECTION CABLE
- 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 +/- 10%
- Temperature effect on zero:
 $\pm 0,014\% \text{ F.S.}/10K$
- Temperature effect on full scale output:
 $\pm 0,0117\% \text{ F.S.}/10K (-10^{\circ}C/+20^{\circ}C)$
 $\pm 0,0175\% \text{ F.S.}/10K (+20^{\circ}C/+40^{\circ}C)$
- Compensated Temperature Range: $-10^{\circ}C/+40^{\circ}C$
- Operating Temperature Range: $-10^{\circ}C/+50^{\circ}C$
- Creep at nominal load in 30 minutes: $\pm 0,01\% \text{ F.S.}$
- Maximum tolerated excitation voltage: 15 VDC
- Input Resistance: $380 \pm 15 \text{ Ohm}$
- Output Resistance: $350 \pm 10 \text{ Ohm}$
- Insulation Resistance (100V) $>2000 \text{ MOhm}$
- Safe Overload: 150% F.S.
- Ultimate Overload: 300% F.S.
- Nominal displacement: $< 0.5 \text{ mm}$
- 6-wire shielded cable, 3m long, 5mm diameter

DETAIL 1



Dimensions in mm

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

VERSIONS

Available versions

Codice	Piatto Max (mm)	Max (kg)
SPSY10 	500 x 400	10
SPSY20 	500 x 400	20
SPSY50 	500 x 400	50
SPSY100 	500 x 400	100



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