

## DSBI

### DSBI SERIES DOUBLE SHEAR BEAM STAINLESS STEEL LOAD CELLS



Stainless steel double shear beam load cells suitable for building, for example, to make CE-M approved scales for high capacities or for weighing tanks and hoppers with the relevant accessories. High accuracy also with the expansion of the weighing structures.

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**CAPACITIES (kg):** 10000, 20000, 30000.

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**OIML R60. C4** precision class.

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

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The best solution  
for advanced industrial  
applications

## TECHNICAL FEATURES

- C4 PRECISION CLASS
- 17-4 PH STAINLESS STEEL CONSTRUCTION
- IP68 PROTECTION
- MAX. CAPACITIES FROM 10000 TO 30000 kg
- SHIELDED CONNECTION CABLE
- TEST CERTIFICATE AVAILABLE UPON REQUEST

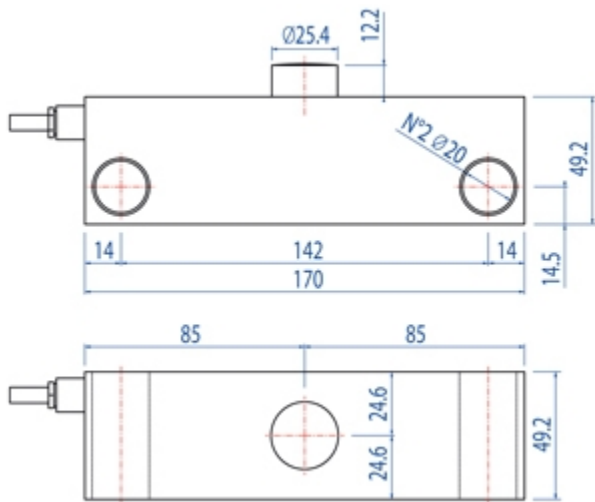
## MAIN FEATURES

- Minimum load cell verification interval:  $V_{min} = E_{Max} / 10.000$
- Combined error 0,03% of Full Scale Output (F.S.)
- Full Scale Output: 2mV/V +/- 0,1%
- Temperature effect on zero: 0,00116% /°C
- Temperature effect on full scale output: 0,00097% /°C
- Compensated Temperature Range: -10°C/+40°C
- Operating Temperature Range: -30°C/+85°C
- Creep error after 30 minutes: <0,02% F.S.
- Maximum tolerated excitation voltage: 15 VDC
- Input Resistance: 700 ± 7 Ohm
- Output Resistance: 700 ± 7 Ohm
- Zero Balance: +/- 1% F.S.
- Insulation Resistance: >5000 MOhm
- Safe Overload: 150% F.S.
- Ultimate Overload: 300% F.S.
- 6-wire shielded cable, 15m long, 5mm 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

Wiring Code	
<i>Colour</i>	<i>Function</i>
GREEN	OUTPUT +
PURPLE	SENSE +
RED	INPUT +
WHITE	OUTPUT -
BLACK	INPUT -
GREY	SENSE -

## VERSIONS

### Available versions

Codice	Max (kg)
DSBI10 	10000
DSBI20 	20000
DSBI30 	30000



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United Kingdom

**DINI ARGEO WEIGHING  
INSTRUMENTS Ltd**  
China

**DINI ARGEO  
OCEANIA**  
Australia



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