

# **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.

CAPACITIES (kg): 10000, 20000, 30000.

OIML R60. C4 precision class.

17-4 PH stainless steel. IP68 protection.

### **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: Vmin = EMax / 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:

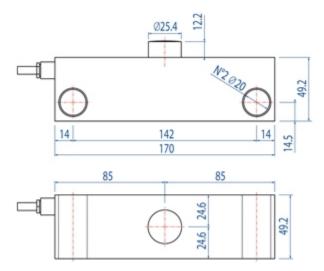
ATEX II 1G Ex ia IIC T6 (Ta -20 $\div$  +40 $^{\circ}$ C) TX (Ta -20 $\div$  +65 $^{\circ}$ C) Ga

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   |                 |
|---------------|-----------------|
| <u>Colour</u> | <u>Function</u> |
| GREEN         | OUTPUT +        |
| PURPLE        | SENSE +         |
| RED           | INPUT +         |
| WHITE         | OUTPUT -        |
| BLACK         | INPUT -         |
| GREY          | SENSE -         |

## VERSIONS

| Available versions |       |
|--------------------|-------|
|                    | Max   |
| Codice             | (kg)  |
| DSBI10             | 10000 |
| DSBI20             | 20000 |
| DSBI30             | 30000 |





DINI ARGEO FRANCE sarl France DINI ARGEO GMBH Germany

DINI ARGEO UK Ltd United Kingdom DINI ARGEO WEIGHING INSTRUMENTS Ltd China DINI ARGEO OCEANIA Australia



#### **COMPANY HEADQUARTERS**

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#### SERVICE ASSISTANCE

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