

## SBK-1KL

SBK-1KL SERIES IP68 STAINLESS STEEL SHEAR BEAM LOAD CELLS, from 300kg to 2000kg



Stainless steel shear beam load cells with low-power 1000 Ohm output resistance for mobile battery applications. Suitable for building, for example, CE-M approved scales with 4 load cells or for weighing tanks and hoppers with the relevant accessories.

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**CAPACITIES (kg):** 300, 500, 1000, 2000.

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**OIML R60. C3** precision class.

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**Stainless steel. IP68** protection.

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Output Resistance **1000 Ohm**.

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The best solution  
for advanced industrial  
applications

## MAIN FEATURES

- C3 PRECISION CLASS
- STAINLESS STEEL CONSTRUCTION
- IP68 PROTECTION
- MAX. CAPACITIES FROM 300 TO 2000 kg
- SHIELDED CONNECTION CABLE
- OIML CERTIFICATE AVAILABLE UPON REQUEST
- TEST CERTIFICATE AVAILABLE UPON REQUEST

## TECHNICAL FEATURES

- Minimum load cell verification interval:  $V_{min} = E_{Max} / 10.000$
- Maximum number of verification intervals:  $n_{LC} = 3000$
- Combined error: 0,017% of Full Scale Output (F.S.)
- Full Scale Output: 2mV/V +/- 0.1%
- Temperature effect on zero: 0,0014% /°C
- Temperature effect on full scale output: 0,0014% /°C
- Compensated Temperature Range: -10°C/+40°C
- Operating Temperature Range: -20°C/+60°C
- Creep error after 30 minutes: 0,024% F.S.
- Maximum tolerated excitation voltage: 15 VDC
- Input Resistance:  $1100 \pm 50 \text{ Ohm}$
- Output Resistance:  $1000 \pm 10 \text{ Ohm}$
- Insulation Resistance: >5000 MOhm
- Safe Overload: 150% F.S.
- Ultimate Overload: 200% F.S.
- 6-wire shielded cable, 5m long, 5 mm diameter

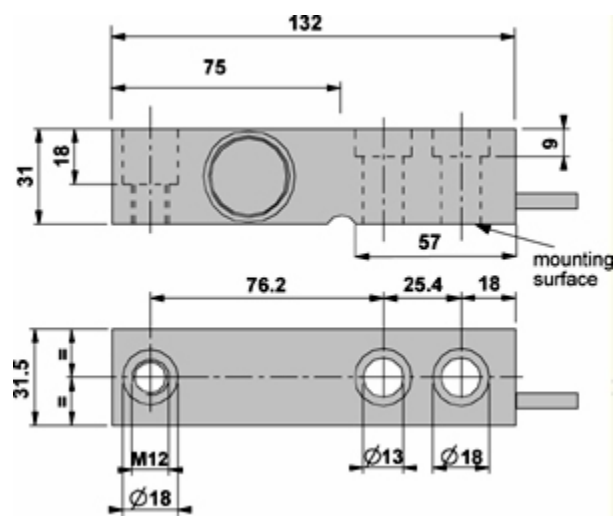
## ATEX VERSION

- 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.

## MAIN CERTIFICATIONS

- OIML R60
- Australian legal for trade certificate of approval (NMI S841)

DETAIL 1



Dimensions (mm)

| Wiring Code |          |
|-------------|----------|
| Colour      | Function |
| --          | SHIELD   |
| YELLOW      | OUTPUT + |
| GREY        | SENSE +  |
| BROWN       | INPUT +  |
| WHITE       | OUTPUT - |
| GREEN       | INPUT -  |
| PINK        | SENSE -  |

VERSIONS

Available versions

|             |                                                                                     | Max (kg) |
|-------------|-------------------------------------------------------------------------------------|----------|
| Codice      |                                                                                     |          |
| SBK300-1KL  |  | 300      |
| SBK500-1KL  |  | 500      |
| SBK1000-1KL |  | 1000     |
| SBK2000-1KL |  | 2000     |



**DINI ARGEO**  
**FRANCE sarl**  
France

**DINI ARGEO**  
**GMBH**  
Germany

**DINI ARGEO**  
**UK Ltd**  
United Kingdom

**DINI ARGEO WEIGHING**  
**INSTRUMENTS Ltd**  
China

**DINI ARGEO**  
**OCEANIA**  
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SALES AND TECHNICAL ASSISTANCE SERVICE