

## RSBT

### RSBT DOUBLE SHEAR BEAM LOAD CELLS



Double shear beam load cells particularly suitable for weighing weighbridges, dosage systems, tanks, silos, etc., complete with support and oscillating spherical joint. CE-M approved.

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**CAPACITIES (kg):** 25000, 30000, 40000.

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**OIML R60. C3** precision class.

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**Nickel-plated** steel. **IP68** protection.

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The best solution  
for advanced industrial  
applications

## MAIN FEATURES

- C3 PRECISION CLASS;
- EXECUTED IN NICKEL-PLATED STEEL WITH LASER SOLDERINGS;
- HIGH PRECISION AND LINEARITY ALSO WITH NON PERPENDICULAR LOADS;
- OPTIMISED FOR PARALLEL CONNECTION;
- IP68 PROTECTION DEGREE;
- CAPACITY FROM 25000 TO 40000kg;
- SHIELDED TEFLON CONNECTION CABLE;
- TEST CERTIFICATE AVAILABLE UPON REQUEST.

## TECHNICAL FEATURES

- Minimum verification interval:  $V_{min} = E_{Max} / 10.000$ ;
- Maximum number of load cell divisions:  $nLC=3000$  (C3);
- Full Scale Output:  $2mV/V \pm 0,2\%$ ;
- Temperature effect on full scale output:  $0,0014\%FS/^{\circ}C$ ;
- Temperature effect on the zero:  $\pm 0,0017\%FS/^{\circ}C$ ;
- Compensated temperature range:  $-10^{\circ}C/+40^{\circ}C$ ;
- Operating temperature range:  $-35^{\circ}C/+65^{\circ}C$ ;
- Creep error after 30 minutes:  $0,02\%$  F.S.;
- Excitation voltage: from 5 to 18 VDC;
- Input Resistance: 750 Ohm;
- Output Resistance:  $700 \pm 7$  Ohm;
- Zero Balance:  $\pm 1,5\%$  F.S.;
- Insulation resistance  $> 5000$  MOhm;
- Safe overload  $> 150\%$  F.S.;
- Maximum overload  $300\%$  F.S.;
- 4-wire shielded cable, 15m long.

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

## 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.

## VERSIONS

### Available versions

Codice		Max (kg)
RSBT25C3		25000
RSBT30C3		30000
RSBT40C3		40000



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INSTRUMENTS Ltd**  
China

**DINI ARGEO  
OCEANIA**  
Australia



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