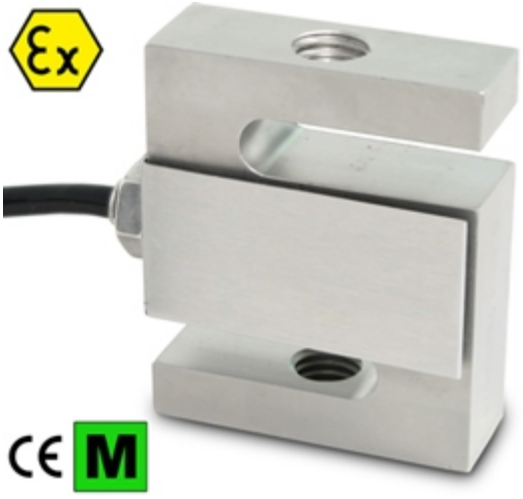
DINI ARGEO
Scales - Weighing systems

STG

STG SERIES TENSION LOAD CELLS



Tension or Compression approved load cells for the weighing hoppers, tanks, scales with levers, and with other weighing devices.

CAPACITIES (kg): 100, 500, 1000.

17-4 PH stainless steel. IP67 protection. C3 precision class.

The best solution
for advanced industrial
applications

MAIN FEATURES

- C3 PRECISION CLASS
- 17-4 PH STAINLESS STEEL CONSTRUCTION
- IP67 PROTECTION
- MAX. CAPACITIES FROM 100 TO 1000 kg
- SHIELDED CONNECTION CABLE
- TEST CERTIFICATE AVAILABLE UPON REQUEST

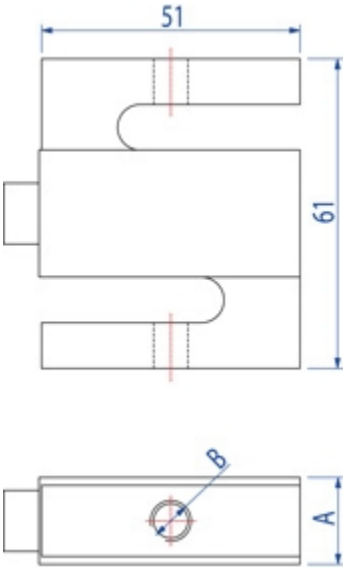
TECHNICAL FEATURES

- Minimum load cell verification interval:
  Vmin = EMax / 10.000 (for STG500 and STG1000 model);
  Vmin = EMax / 7.000 (for STG100 model)
- Maximum number of verification intervals: nLC = 3000
- Combined error 0,03% of Full Scale Output (F.S.)
- Non-Repeatability: 0,01% F.S.
- Full Scale Output: 3mV/V +/- 0,08%
- Temperature effect on zero: 0,017% /°C
- Temperature effect on full scale output: 0,014% /°C
- Compensated Temperature Range: -10°C/+40°C
- Operating Temperature Range: -35°C/+65°C
- Creep error after 30 minutes: 0,02% F.S.
- Maximum tolerated excitation voltage: 18 VDC
- Input Resistance: 430 ± 60 Ohm
- Output Resistance: 350 ± 3.5 Ohm
- Zero balance: +/-1% F.S.
- Insulation Resistance: >5000 MOhm
- Safe Overload: 150% F.S.
- Ultimate Overload: 300% F.S.
- 4-wire shielded cable, 6m 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.

DETAIL 1



Code	Dimensions in mm	
	A	B
STG100	15	M8
STG500	21	M12
STG1000	28	M12

Wiring Code	
Colour	*Function*
--	SHIELD
GREEN	OUTPUT +
RED	INPUT +
WHITE	OUTPUT -
BLACK	INPUT -

VERSIONS

Models available

Code	Max (kg)
STG100	100
STG500	500
STG1000	1000

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DINI ARGEO
Scales - Weighing systems

ATEX

ISO 9001:2008

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