# CDG 3A

## HYGIENIC JUNCTION BOXES

IP68

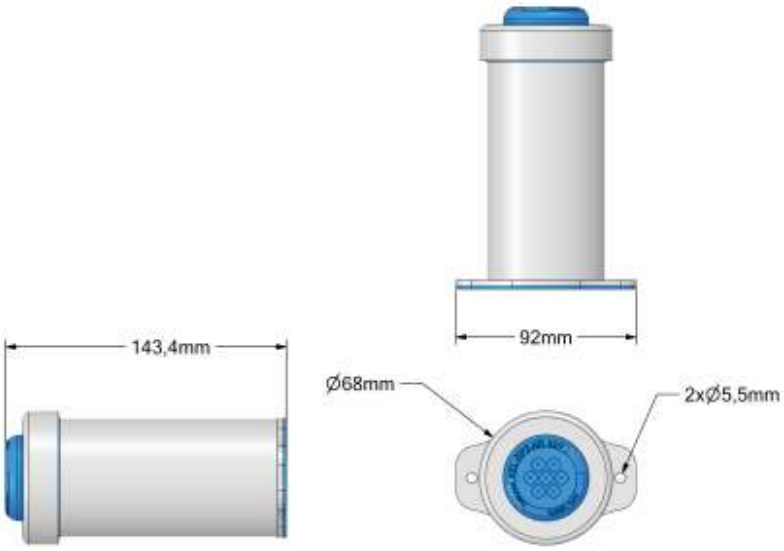
| DESCRIPTION | CODE |
|---|---|
| Equalization board | CDG4EQ3A |
| Parallel connection board | CDG43A |

- Hygienic junction box in AISI 304 stainless steel.
- Cylindrical design to facilitate sanitization.
- IP68 protection rating.
- Blue hygienic cable gland for passage up to 7 cables.
- Hygienic device RPSCQC authorized by 3-A SSI.
- Working temperature: -20 °C +60 °C.
- Up to 4 load cells connection (4/6 wires).
- Two hygienic M5 screws with seal (included in the supply).

### CERTIFICATIONS

American standard that regulates the design, production and use of hygienic equipment

### DIMENSIONS (mm)




Rev. 0.0

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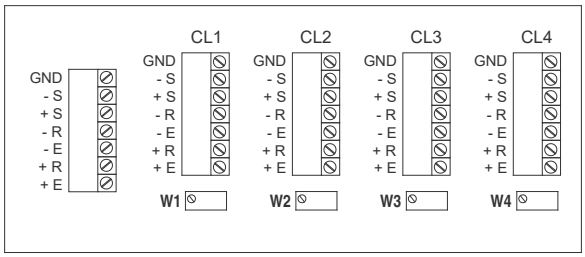
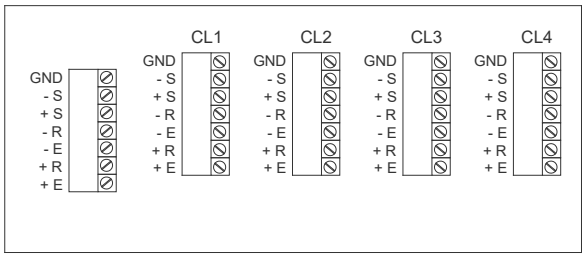
## ELECTRICAL CONNECTIONS

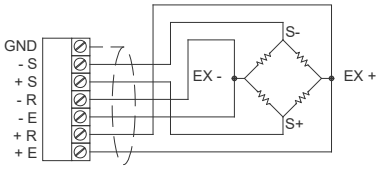
**CDG4EQ3A**



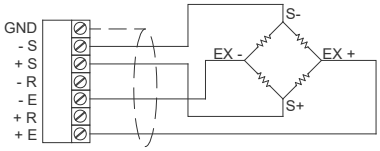

**CDG43A**



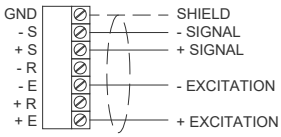

6-WIRES LOAD CELLS CONNECTION



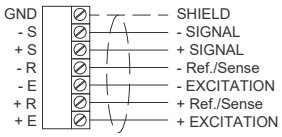

4-WIRES LOAD CELLS CONNECTION



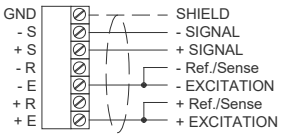

4-WIRES OUTPUT CABLE
WITH 4 WIRES LOAD CELL




6-WIRES OUTPUT CABLE
WITH 6 WIRES LOAD CELL




6-WIRES OUTPUT CABLE
WITH 4 WIRES LOAD CELL




## EQUALIZATION PROCEDURE (CDG4EQ3A)

**WARNING!**

- For load cells with 2 mV/V sensitivity the difference between the sensitivities must not be greater than 0.1 mV.
  For load cells with 3 mV/V sensitivity the difference between the sensitivities must not be greater than 0.15 mV.
- CDG4EQ3A: the board is equipped with a 20 Ω potentiometer for each load cell.

**Example with 4 load cells and a sample weight of 978 kg:**

1. Turn the potentiometers'screw counterclockwise until to 0 Ω.
2. Place the sample weight in correspondence with the CL1 load cell and take note of the value shown on the display; repeat the same operation for all load cells.
   Example: CL1 = 1008 kg CL2 = 998 kg
   CL3 = 973 kg CL4 = 985 kg
3. Adjust the potentiometers related to the higher weight values (W1, W2, W4), leaving the lowest one unchanged (W3).
4. Place the sample weight in correspondence with the CL1 load cell; by adjusting the potentiometer W1 change the value shown on the display from 1008 kg to 973 kg.
5. Place the sample weight in correspondence with the CL2 load cell; by adjusting the potentiometer W2 change the value shown on the display from 998 kg to 973 kg.
6. Place the sample weight in correspondence with the CL4 load cell; by adjusting the potentiometer W3 change the value shown on the display from 985 kg to 973 kg.
7. Place the sample weight in correspondence with the CL3 load cell and take note of the value shown on the display, for example 966 kg.
8. Place the sample weight in correspondence with the CL1 and adjust the potentiometer W1 until 966 kg is displayed.
9. Place the sample weight in correspondence with the CL2 and adjust the potentiometer W2 until 966 kg is displayed.
10. Place the sample weight in correspondence with the CL4 and adjust the potentiometer W4 until 966 kg is displayed.
11. Place the sample weight in correspondence with the CL3 and take note of the value shown on the display, for example 962 kg.
12. Repeat the procedure several times until the display shows the same weight value for all four load cells.
13. Remove the sample weight and zero the tare, then place the sample weight in the middle and calibrate the instrument (see the instrument's user manual).

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