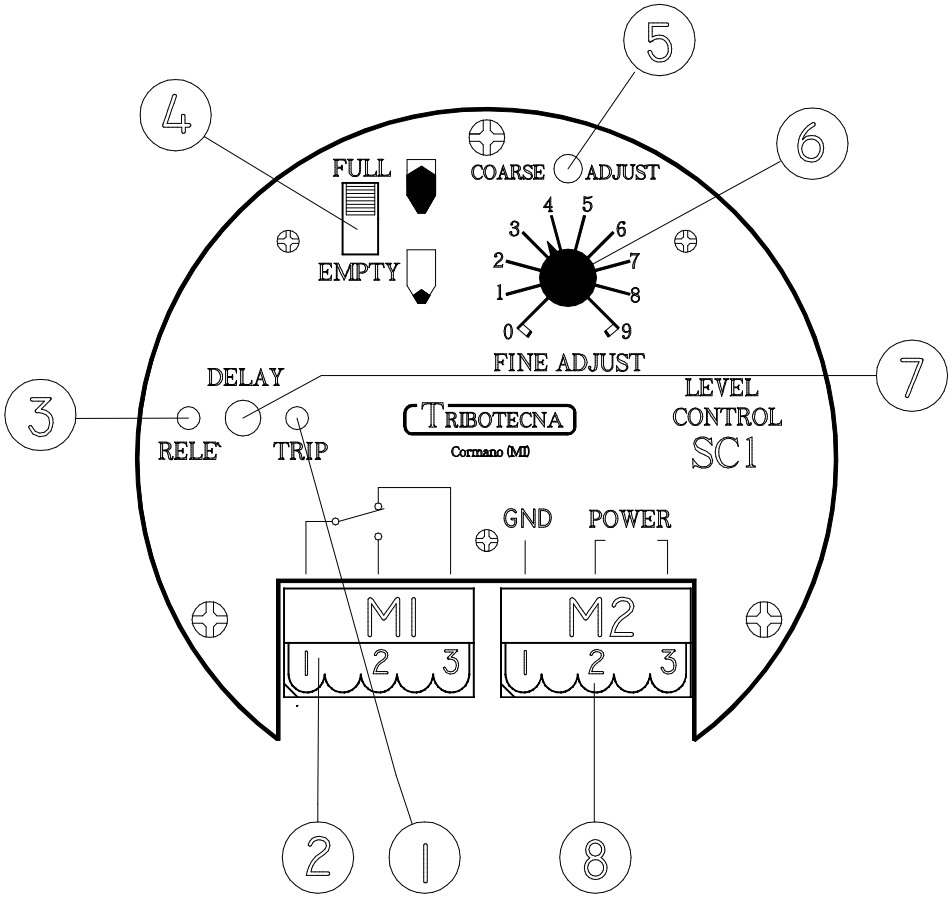


1 INSTALLATION

- No special precautions are required, except that it is advisable to install the SCE-1/S control unit with a separate probe if strong mechanical vibration is expected.

2 CONNECTIONS

- Power the unit through the pull-out "POWER" terminal (**M2 [8]**)**.** Apply the voltage indicated on the rating plate to terminal **2-3, with earth on terminal 1.**
- connect output relay to terminal board **M1 [2] (contact is indicated relay off)**

3 NORMAL USES

3.1 Maximum level

- Switch [4] to "Full"

With no material detected by the probe, the relay is normally energized (red LED **[3]** ON).
On reaching maximum level, the relay de-energizes at the timeout set by "DELAY" trimmer **[7]** (yellow LED [1] "TRIP" lit during and after timeout; red LED off at timeout)

3.2 Minimum level

- Switch [4] to "Empty"
With material present at the probe, the relay is normally energized (red LED **[3]** ON).
On reaching minimum level, the relay triggers following the delay set by "DELAY" trimmer **[7]** (yellow LED **[1]** "TRIP" lit during delay and after timeout; red LED off at timout)
N.B. the **relay de-energizing** delay is adjustable between 0.2 and 20 sec. approx. Start of delay time is indicated by simultaneous lighting of yellow LED **[1]** and red LED **[3]**

4 ADJUSTMENT

1) Turn switch "FULL/EMPTY" to "FULL".
2) Set delay **[7]** to minimum (turn the trimmer one full turn anti-clockwise)
3) Set fine adjustment **[6]** to **1**
4) Check that the material level leaves the probe electrode completely uncovered.
5) Switch the unit on after checking correct supply voltage
6) Turn **"Coarse Adjust"** trimmer knob **[5]** until the yellow LED **[1]** changes status
   Lock adjustment at the point where the LED extinguishes.
7) Fill the container so the material completely covers the electrode (yellow LED on, red LED off)
8) Turn the fine adjustment knob clockwise to the point where the yellow LED goes off **(*)**.
   Note the new value (e.g. 7)
9) The definitive fine adjustment setting should be the mid-point between setting 1 (uncovered probe) and the probe immersed value, this being:

   $$\text{ideal setting} = \frac{\text{empty result} + \text{full result}}{2}$$

   e.g. $\frac{1+7}{2} = \frac{8}{2} = 4$

   (*) If the yellow LED does not extinguish even when the knob is turned to 9, the definitive setting should be 6.
10) Following adjustment, the FULL/EMPTY switch must be set to plant operating requirements. Nevertheless it is good practice to consider the possible effects of a relay failure caused, for example, by blackout.

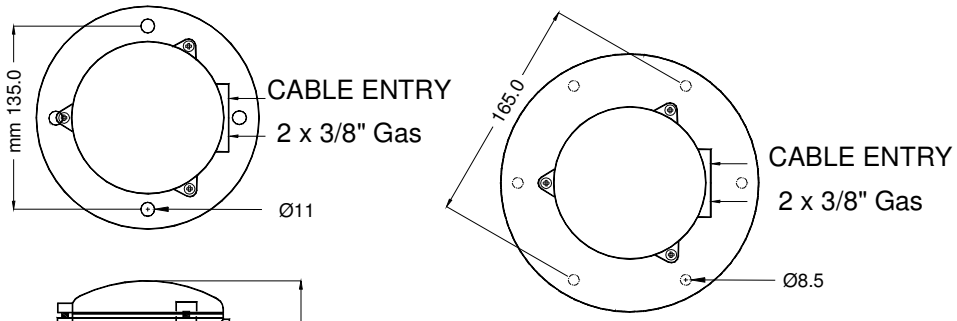
5 SPECIFICATIONS

- POWER SUPPLY	115 V or 230 V ac ± 15% 50/60 Hz (specify on order), other voltages on request.
- ABSORBED POWER	2 VA max.
- RELAY	non-inductive 1 step max. 3 A 230V
- SENSITIVITY	0.1 pF (capacitance shift for relay cut-in)
- STABILITY	0.01 pF/°C
- ELECTROSTATIC SCREENING	built-in
- WORKING TEMPERATURE	-20 to + 60 °C
- WORKING PRESSURE	12 BAR

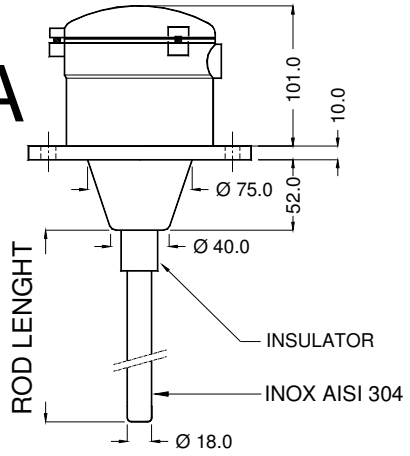
CE CERTIFICATION

- SAFETY : EN61010-1
- EMC : EN 50081-2 EN 50082-2

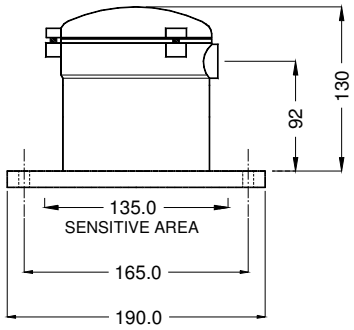
ALUMINIUM PROBE BODY



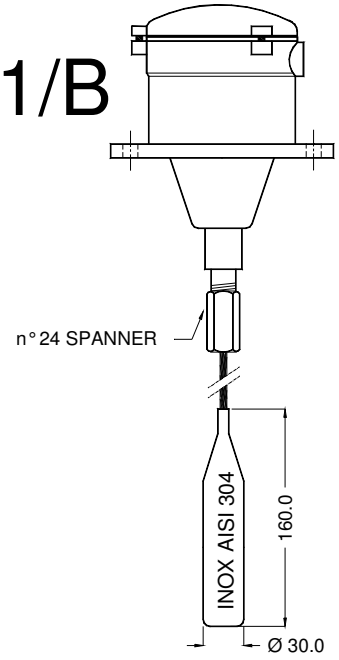
SC1/A



SC1/C



SC1/B



SC1/C/S