

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 (M3 [8]). Apply the voltage indicated on the rating plate to terminal 2-3, **with earth on terminal 1.**
- Connect the probe to terminals 1 (conductor) and 2 (shield) of control unit terminal board M2[9] using the shielded low capacitance cable (max. L = 2 mt)
- connect output relay to terminal board M1 [2] (**contacts are 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 lit during and after timeout; red LED off at timeout)

SCE-1/A, /B LEVEL CONTROL

INSTRUCTIONS

INSTALLATION AND ADJUSTMENT

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 on during delay and after timeout; red LED off at timeout)

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 2 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 CERTIFICATE

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

SCE-1/A, /B LEVEL CONTROL

INSTRUCTIONS

INSTALLATION AND ADJUSTMENT

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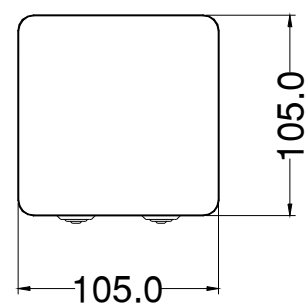
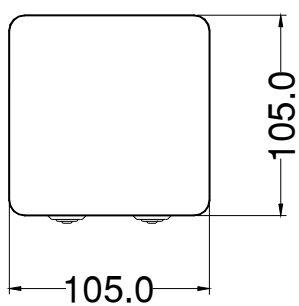
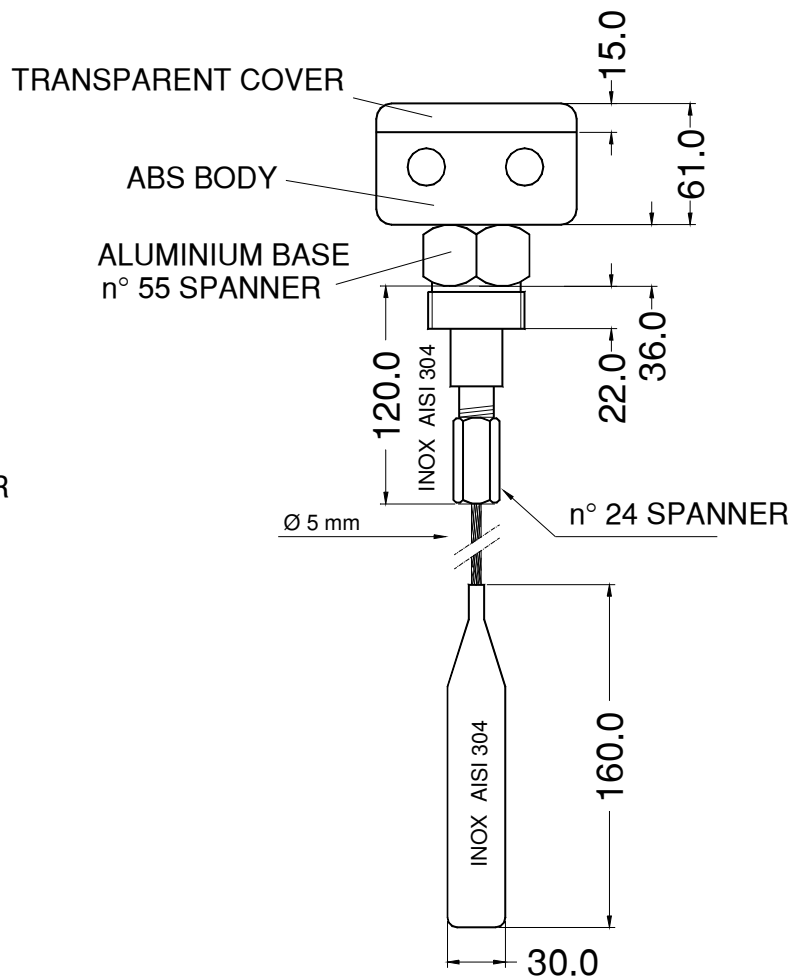
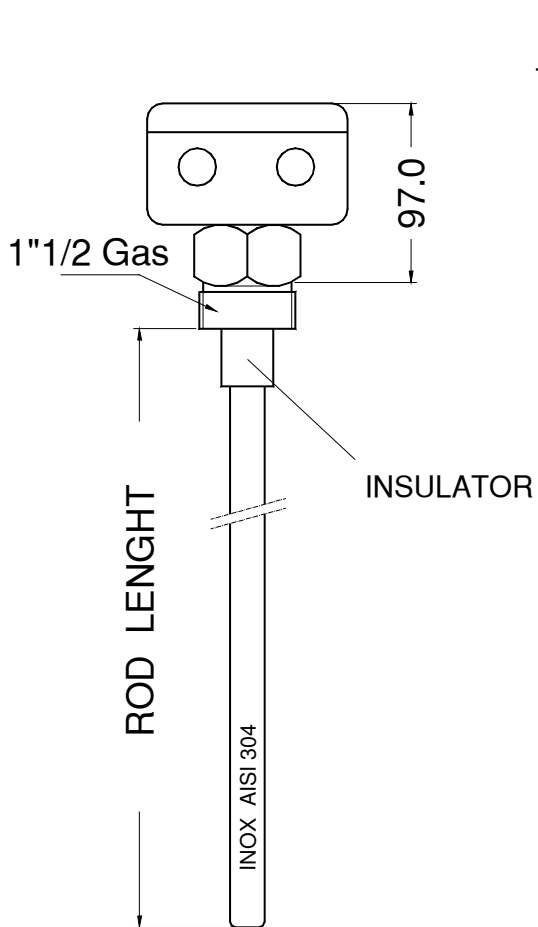
p.2/3

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SCE-1/A

SCE-1/B



SCE-1/A, /B LEVEL CONTROL

INSTRUCTIONS

INSTALLATION AND ADJUSTMENT

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p.3/3

SCE1AImi.doc

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