LC1 Installation Instructions

Installation Instructions

The LC1 is designed for panel mounting in a 92 mm × 92 mm cut-out.

1. Mark and cut a 92 mm × 92 mm square opening in the panel using the supplied template, then using the LC1, mark the four mounting hole positions.
2. Drill 4 × 2.5 mm fixing holes.
3. Tap the holes to M3 thread.
4. Secure the unit using the supplied M3 dome-headed bolts, with spring and flat washers.

Alternatively, the unit may be secured using the supplied self-tapping screws, with spring and flat washers.

⚠ Do not over-tighten the fixing screws. Excessive torque may damage the enclosure.

Wiring

For existing installations where a counter is being replaced, there will be an existing pulse generation device for each channel. Download the relevant replacement instructions for that machine from our website, https://liquicount.co.uk/Support

- If one or either of the pumping systems uses a positive displacement pump, the sensor will likely be a proximity switch. It will be mounted near the pump to detect the 'fingers' of a target mounted between the drive motor and the pump. This can be a PNP or NPN proximity switch,.
  See Sensor Wiring' on rear of page for details.
- If the pumping system uses a centrifugal pump, there will likely be a flow turbine (for example a Rotor flow sensor). Wire this as shown in the sensor wiring section.

NOTE: The sensor voltage may be listed as 5v-24v Max. in this case, set the sensor voltage to 5v as described in the Setting Sensor Voltage section of the user manual. (https://liquicount.co.uk/User-Manual/)

- For new installations where there are no existing sensors, pulse devices will be required. If help is required with flow sensors, please contact LiquiCount for help enquiries@liquicount.co.uk

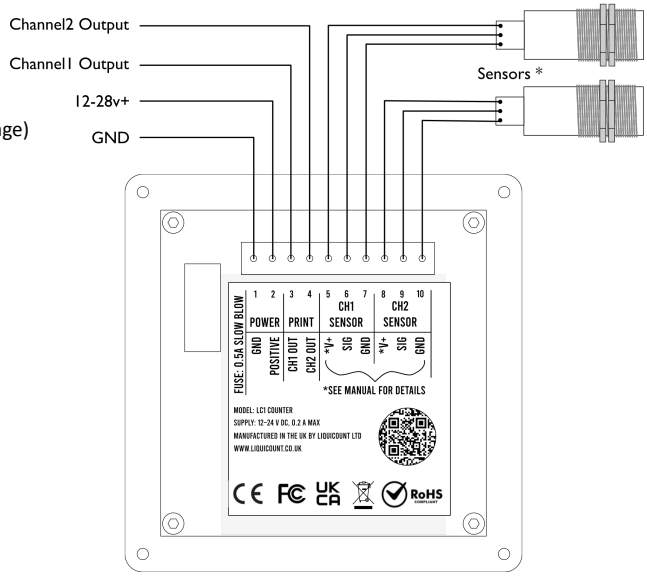
In cases where the counter may need to be removed in the future from the front without disturbing the panel, the supplied extension harness allows for this.

Wire the enclosed wiring harness extension into the installation, connecting it to the vehicle harness as required, the harness wires are all numbered as per the terminals on the LC1. The number of wires actually used will depend on the installation itself and in some cases, you may prefer to remove the plug from extension harness and wire it directly to the vehicle. If the extension harness is used, any individual wires which are NOT used should be removed from the LC1 terminal block. Do NOT rely on the glue spot on the cable to insulate the end of the wire, this is only there to keep the cable numbers in place during transportation.

To wire the plug directly to the vehicle, use crimp ferules on the ends of the wires and be careful not to allow any stray strands of wire to link adjacent terminal blocks.

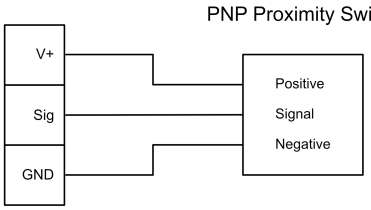
Wiring Diagram

The device must only be powered from a 12–28V DC SELV (Safety Extra Low Voltage) supply.



Sensor Wiring

The counter requires positive input pulses from PNP proximity switches or similar.



Common colours

- Brown +
- Blue GND
- Black Sig

For NPN, 2 Wire NPN Proximity Switches and Turbine Flow Meter information, visit:
https://liquicount.co.uk/Installation-Instructions

To access the user manual, use this QR code.