

Conductive Sensors 2-point level controller Type CL with potentiometer

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- Conductive level controller
- Sensitivity adjustment from 5 kΩ to 150 kΩ
- For filling or emptying applications
- Low-voltage AC electrodes
- Easy installation with 11 pin circular plug
- Rated operational voltage:
24 VDC, 24 VAC, 115 VAC or 230 VAC
- Output 1 x 8A/250 VAC SPDT relay
- LED indication for: Output ON and Power ON



Product Description

μ-Processor based level controller for liquids with a wide sensitivity range (like sewage water, chemicals, salt water etc.).

Max./min. control of charging/discharging. The sensitivity is adjustable by means of the potentiometer.
1 x 8A SPDT relay output.

Ordering Key

CLP2EB1B230

Conductive level _____
Plug mounting _____
No of inputs _____
Charge/discharge _____
Basic with potentiometer _____
1 relay output _____
Relay SPDT _____
Power supply _____

Type Selection

| Mounting | Relay | Ordering no. Supply: 24 VDC | Ordering no. Supply: 24 VAC | Ordering no. Supply: 115 VAC | Ordering no. Supply: 230 VAC |
|--------------------|-------|--------------------------------|--------------------------------|---------------------------------|---------------------------------|
| 11-p circular plug | SPDT | CLP2EB1B724 | CLP2EB1B024 | CLP2EB1B115 | CLP2EB1B230 |

Specifications

| | | | | |
|--|--------------|---|--------------------------------------|--|
| Rated operational voltage (U_B) | | | Dielectric voltage | >2.0 KVAC (rms) (contacts / electronics) |
| Pin 2 & 10 | 230 | 195 to 265 VAC, 45 to 65 Hz | Rated impulse withstand volt. | 4 kV (1.2/50 μS) (contacts / electronics) (IEC 664) |
| | 115 | 98 to 132 VAC, 45 to 65 Hz | Operating frequency (f) | 1 Hz |
| | 024 | 20.4 to 27.6 VAC, 45 to 65 Hz | Response time | OFF-ON (t _{on}) ON-OFF (t _{off}) |
| Supply class 2 | 724 | 20.4 to 27.6 VDC | | 1 s 1 s |
| Rated insulation voltage | | <2.0 kVAC (rms) | Environment | Overvoltage category Degree of protection Pollution degree |
| Rated impulse withstand voltage | | 4 kV (1.2/50 μS) (line/neutral) | | III (IEC 60664) IP 20 (IEC 60529, 60947-1) 2 (IEC 60664/60664A, 60947-1) |
| Rated operational power | | | Temperature | Operating Storage |
| AC supply | | 5 VA | | -20° to +50°C (-4° to +122°F) -40° to +85°C (-40° to +185°F) |
| DC supply | | 1 W | Housing material | NORYL PPO, light grey |
| Delay on operate (t_v) | | < 2 s | Weight | AC supply DC supply |
| Outputs | | | | 180 g 70 g |
| Rated insulation voltage | | 250 VAC (rms) (cont./elec.) | Approvals | cULus CSA |
| Relay Rating (AgCdO) | | | | UL508, CSA C22.2 CSA C22.2 |
| Resistive loads | AC1 DC1 | μ (micro gap) 8 A / 250 VAC (2500 VA) 1 A / 250 VDC (250 W) or 10 A / 25 VDC (250 W) | CE marking | Yes |
| Small induc. Loads | AC15 DC13 | 0,4 A / 250 VAC 0,4 A / 30 VDC | | |
| Mechanical life (typical) | | ≥ 30 x 10 ⁶ operations @ 18'000 imp/h | | |
| Electrical life (typical) | AC1 | > 250'000 operations | | |
| Level probe supply | | Max. 5 VAC | | |
| Level probe current | | Max. 2 mA | | |
| Sensitivity | | 5 kΩ to 150 kΩ, C _F * = 2.2 nF | | |

*C_F = maximum Cable Capacitance

Connection cable

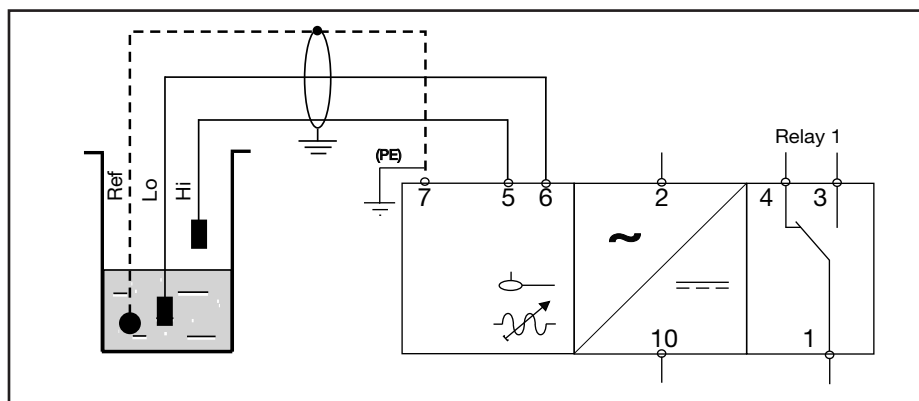
Example 1

The diagram shows the level control connected as max. and min. control. The relays react to the low alternating

The reference (Ref) must be connected to the container or if the container consists

(In the diagram this electrode is shown by the dotted line).

If only one level detection is required - interconnect the two inputs 5 and 6.



Filling

Power supply ON



Relay ON (1-3)

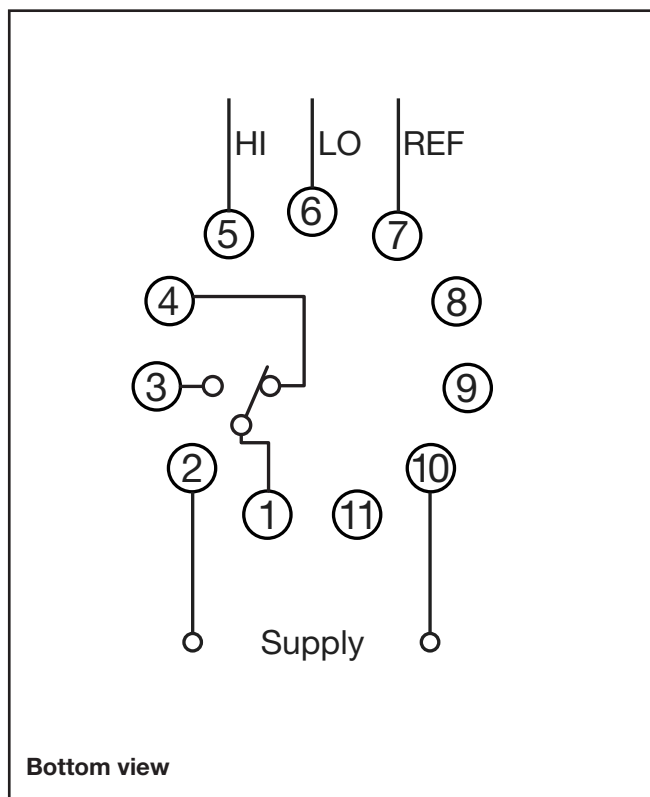
Emptying

Power supply ON



Relay ON (1-3)

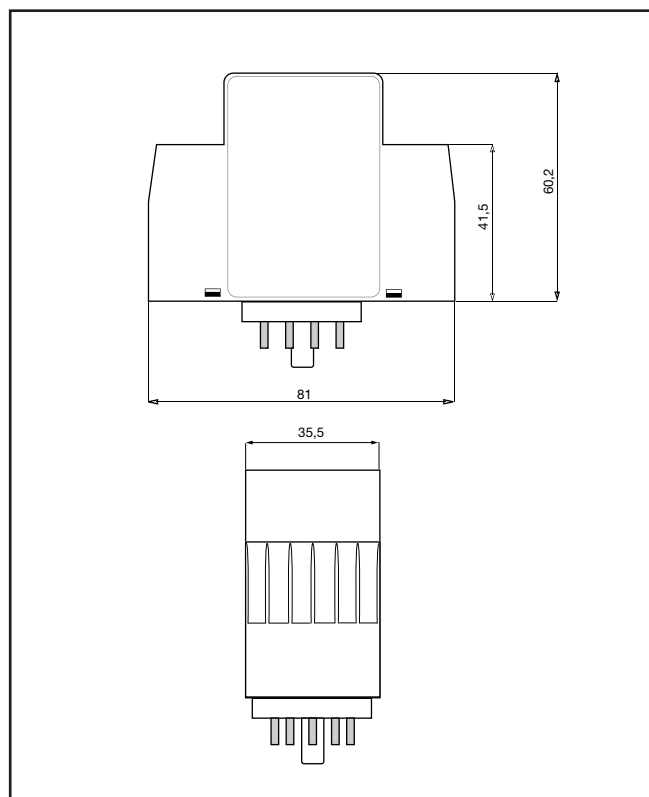
Wiring Diagram



Accessories

- 11 pole circular socket ZPD11
- Retaining spring HF

Dimension Drawings



Delivery Contents

- Amplifier
- Packaging: Carton box
- Manual

Mouser Electronics

Authorized Distributor

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[CLP2EB1B724](#)