Thank you very much for purchasing Love Controls LCT216 series. Please read this instruction sheet before using your LCT216 series to ensure proper operation, and please keep this instruction sheet handy for your quick reference.

LCT216 Timer/Counter/Tachometer

Specifications

There are counting up/down modes, several counting units and output modes to choose from in the timer function.

1. When the power is on, DO NOT touch the AC terminals in case an electric shock may occur.
2. Make sure the power is disconnected when you check the unit inside.
3. DO NOT modify or unplug the device.
4. DO NOT use empty terminals.
5. Make sure the wires are correctly connected to proper terminals.
6. Keep away from high-voltage and high-frequency environment during installation in case of interference.
7. Prevent using the device in premises with:
   - Dust or corrosive gas
   - High humidity
   - High radiation
8. LCT216 is an OPEN – TYPE device. They are intended for installation completely within an overall panel and for use in counting or timing applications. It will cause serious injury to workers or damages on other equipment when used in a dangerous environment, please make sure it is installed in a safe environment.
9. Always use recommended solder-less terminals: Fork terminal with isolation (M3 screw, width 7.0mm), hole (diameter 3.2mm). Screw size: M3x0.5 (with 6.4x8.8x4 washer). Recommended tightening torque: 1.4N.m (4kgf.cm). Applicable wire: solid/twisted wire of 2mm
10. DO NOT touch the terminals or repair the device when the power is on; otherwise an electric shock may occur.
11. Please wait for one minute after the power is switched off to allow the capacitor to discharge and DO NOT touch inside the device during this period.
12. Use dry cloth to clean the device. DO NOT use acid or alkaline liquid to clean the device.

Key Operation

Increase and decrease SV or change parameter setting.

1. Left-shift 1 digit of the selected digit. The indicator of the selected digit will flash.
2. Save the parameters or switch among different functions.

Prevent settings from being changed. The key-protection mode still works after the power is switched off. Press "LOCK" to enter the key-protection mode. In non-key-protection status, press "LOCK" again to enter Lock 1. In Lock 1, press "LOCK" once again to enter Lock 2. Press "LOCK" to exit the key-protection mode.

Reset clear and reset PV.

Operation Mode & Configuration Mode

When the power is on, LCT216 will be in the operation mode. Press [SET] to change SV, or
Counter Function

Counter functions include: 1-stage counting, 2-stage counting, batch counting, total counting and dual counting.

1-stage: Only 1 SV is allowed. See "Output modes of counter".

2-stage: 2 SVs, 2 PVs are allowed. See "Output modes of counter".

Batch: Apart from the counting of PV and SV, when PV = SV, the batch counting adds 1 and PV as 0 for recounting till the batch counting equals batch SV.

Total: Total counting adds up all the counting values till they reach SV for output.

Dual: CP1 and CP2 can be independent counters, but the counting speed can only reach 9kHz. CP1 and CP2 can execute addition or subtraction.

Output Setup:

- SV1, Output 1 is enabled. When PV = SV1, Output 1 is enabled. When PV = SV2, Output 2 is enabled.
- SV2, Output 2 is enabled. When PV = SV2, Output 2 is enabled.

Measurement value

- Measurement value = Measurement value + 1
- Measurement value = Measurement value + 2

Note: has to be larger than width of min. input signal.

Note: has to be larger than width of 1/2 min. input signal.

Output Mode Configuration

Table 1

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<thead>
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<th>Output 1</th>
<th>Output 2</th>
<th>SV2</th>
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Table 2

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<th>SV2</th>
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R Setting up Easy DIP Switch

The user can use DIP switch to set up parameters. When DIP is switched to ON, the corresponding parameters can only be read, not changed.

1. Insert the controller through the panel cutout.
2. Insert the mounting bracket into the mounting groove at the top of the controller and push the mounting bracket forward until the bracket stops at the panel wall.
3. Insert and tighten the screws on the bracket to secure the controller in place.