

Drock Timer Delay Relay User Manual

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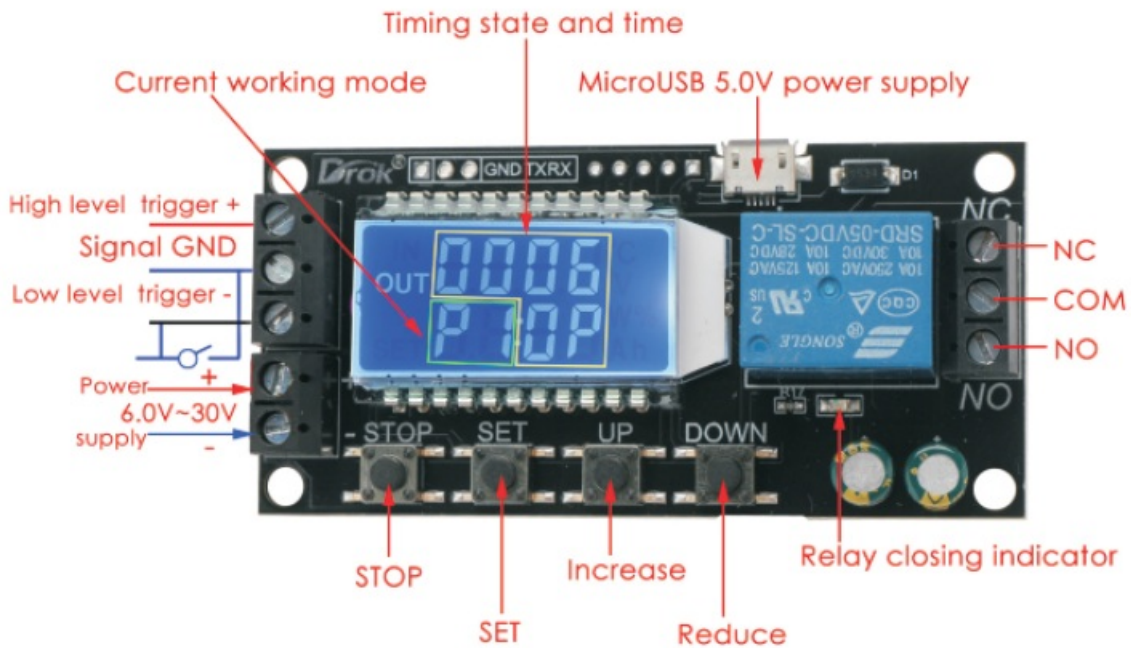
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Timer Delay Relay



Module Description:



Parameters:

- Operating voltage: DC 6-30V, support micro USB 5.0V.
- Trigger source: High-level trigger (3.0-24V); low-level trigger (0.0-0.2V); switching quantity control (passive switch).
- Output capacity: can control devices within DC 30V/5A or within AC 220V/5A.
- Working current: 50mA
- Quiescent current: 15mA
- Working temperature: 40~85°C
- Service life: more than 100,000 times;
- Input reverse connection protection: Yes
- Dimension: 80*39*20mm

Features:

- Display: clear LCD displays current working mode and parameter.
- With sleep mode: After enabling sleep mode, if there is no operation for 5 minutes, backlight will turn off automatically.
- Press any key to wake up.
- With STOP key, support one-button stop.
- All set parameter will be automatically saved when power off.

Parameter instruction:

OP: operate time

CL: close time

LOP: loop times (1~9999 times; “—”represents infinite loop)

Working Mode::

P1: Relay will turn ON for time OP after getting a trigger signal and then turn relay OFF. The input signal is invalid if it gets a trigger signal again during delay time OP.

P2: Relay will turn ON for time OP after getting a trigger signal and then turn relay OFF. The module will restart timing if it gets a trigger signal again during delay time OP.

P3: Relay will turn ON for time OP after getting a trigger signal and then turn relay OFF. Module will reset and stop timing if it gets a trigger signal again during delay time OP.

P4: Relay will turn OFF for time CL after getting a trigger signal and then relay will turn ON for time OP. Relay will turn OFF after finish timing.

P5: Relay will turn ON for time OP after getting a trigger signal and then relay will turn OFF for time CL and then loops the above action. Relay will turn OFF and stop timing if it gets a trigger signal again during the loop.

P6: Relay will turn ON for time OP after power on without getting a trigger signal and then relay will turn OFF for time CL and then loops the above action. The number of cycles (LOP) can be set.

P7: Signal hold function

If there is a trigger signal, the timing will reset, and the relay keeps ON. When the signal disappears, after timing time OP, relay will turn OFF. During timing, if the relay gets a signal again, timing will reset.

How to select timing range:

- Timing range: 0.01 second (min.)~9999 minute (max.) continuously adjustable.
- In the OP/CL parameter setting interface, short press
- STOP key to select the timing range.
- XXXX No decimal point; timing range: 1sec~9999 sec
- XXX.X Decimal point is after tens; timing range: 0.01sec ~999.9sec
- XX.XX Decimal point is after hundreds; timing range: 0.01 sec~99.99sec
- X.X.X.X All decimal points light up; timing range: 1min ~9999min

e.g. If you want to set the OP to 3.2 seconds. Move the decimal point after tens, and the LCD will display 003.2

Wiring Diagram:



Remote data uploading and parameter setting functions:

The system supports UART data uploading and parameter setting function (TTL);

UART: 9600,8,1

CMD	Function
read	Read system parameters
OP: XXXX	1s
OP: XXX.X	0.1s
OP: XX.XX	0.01s
OP: X.X.X.X	1 min
CL: XXXX	1s
CL: XXX.X	0.1s
CL: XX.XX	0.01s
CL: X.X.X.X	1 min
LP: XXXX	Cycle times
on	Relay enable
off	Relay disable
PX	Set the working mode (P1~P7)

Additional Functions

- Auto sleep function/Low power function: In the running interface, long pressing STOP key can enable or disable auto sleep function (L-P selects ON to enable hibernation function, and OFF to disable hibernation)

function).

- Relay enable/disable function: In the running interface, short pressing STOP key can enable or disable relay.
“ON” means that when meets the conduction condition, the function of the relay will be enabled;
“OFF” means that even when meets the conduction condition, the function of the relay will NOT be enabled.
In the “OFF” state, the system will flash “OUT”.
- Parameter viewing: In the running interface, short pressing SET key can display the current parameter set in the system without affecting the system normal operation.
- Display content switching function: In mode P5 & P6, short pressing DOWN key can switch the displaying content (running time/loop times).

Parameter setting

- Hold press SET key to enter setting interface.
- Set the working mode. Working mode flashes to remind.
Set the working mode by pressing UP/DOWN key.
- Short press SET key to select working mode and enter system parameter setting interface.
- In the system parameter setting interface, short press SET key to switch the system parameter to be changed.
Short press/long press UP/DOWN key to change.
(Short pressing SET key is invalid in mode P1~P3 & P7.)
- In OP/CL parameter setting interface, short press STOP to switch timing unit (1s/0.1s/0.01s/1min).
- After finishing setting all parameters, long press SET key to save the set parameter and exit setting interface.

**Recommend Product
on Amazon:**




**DROK 0.1s to 999min
Timer Relay**

**Any questions please contact
us through Amazon:**



Documents / Resources

	Drock Timer Delay Relay [pdf] User Manual Timer Delay Relay
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References

- [!\[\]\(849840539e55921a3851a4ff96d7400d_img.jpg\) **DROK - Experienced in Developing and Manufacturing Buck Boost Module, Digital Meter, Audio Amplifier Module, Professional Electric Module Manufacturer & Supplier**](#)