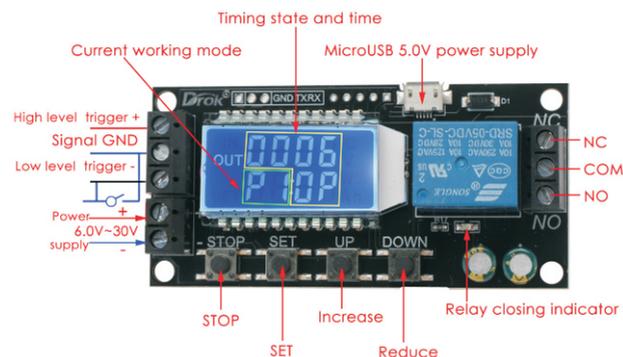




DROK Timer Relay

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: - 40~85C°
- 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: 0.01sec~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:



Weak current control strong current wiring diagram



Wiring diagram for sharing one power supply

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.

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DROK 0.1s to 999min
Timer Relay