SC-610 Flip flop relay without memory SC-611 Flip flop relay with memory





Application Examples

- The direction control of conveyor lines.
- The re-directon of counting pulses to a counter.
- Change-over control for duty cycling of pumps.
- Generator set battery cycling during start-up.

Features

- Many power supply options.
- Direct connection of a NPN sensor (SC-611)
- 10A SPDT or a 5A DPDT relay.

ORDERING CODE TYPE MODEL VOLTAGE SUPPLY CONTACTS SC 610 230V AC SP SEE PAGE 94 FOR ORDERING OPTIONS

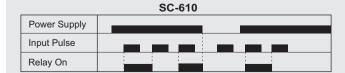
Description of Operation

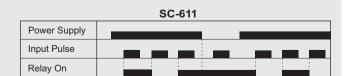
The unit is ready to operate when power is connected to pins 2 and 10.

SC-610 (Without memory): On power-up the relay will be de-energised. When an input is received between pins 5 and 7 the relay will energise. On each subsequent input received, the relay will change its state (toggle). When power is removed, the relay will de-energise.

SC-611 (With memory): On power-up the relay will be in the state it was in when power was removed. Each input received subsequently on pin 5 and 7 will cause the relay to change its state (toggle). When power is removed the relay remains in its last state.

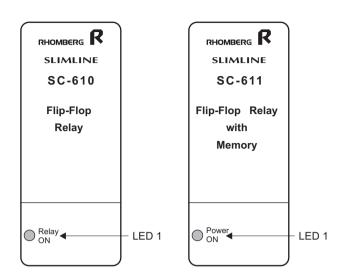
Operational Diagrams







Description of Controls



LED1: SC-610: The LED will illuminates when the relay is on.

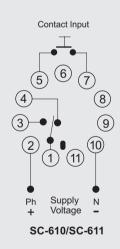
SC-611: The LED will illuminate when power is applied to unit.

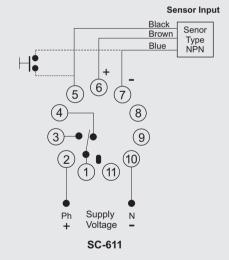
Wiring and Connection

| Power Supply | |
|------------------|----|
| Phase/Positive | 2 |
| Neutral/Negative | 10 |

| Relay Contacts | | |
|-----------------|-----|--|
| Normally open | 1+3 | |
| Normally closed | 1+4 | |

Connect positive lead (brown) to pin 6. Connect NPN output lead (black) to pin 7. Connect negative lead (blue) to pin 7.





Note: For further information on sensors refers to our Detechtor catalogue.

■ Technical Specifications

POWER SUPPLY

AC: Supply voltage: 12, 24, 110, 230, 400, ±15% Isolation (reset to power supply): 2kV Power consumption: 3VA (approx.)

OC: Supply voltage: 12, 24, 48, 60,110V ±15% Isolation: no galvanic isolation Power consumption: 100mA for 12V and 24V 30mA for 48V and higher

| INPUT | | |
|----------------------------------|----------------------------------|--|
| SC-610 | SC-611 | |
| Short circuit current: 8.5mA | Short circuit current: 1mA | |
| Open Circuit Voltage: 8.2V | Open Circuit Voltage: 8.2V | |
| Input reset speed: 20 millisecs. | Input reset speed: 10 millisecs. | |

12V DC Output:

Voltage tolerance: 10-15V DC. Source Current: 50mA (max.).