

Applications I

LED Thermal Caulking Machine for Cell Phone Backlighting

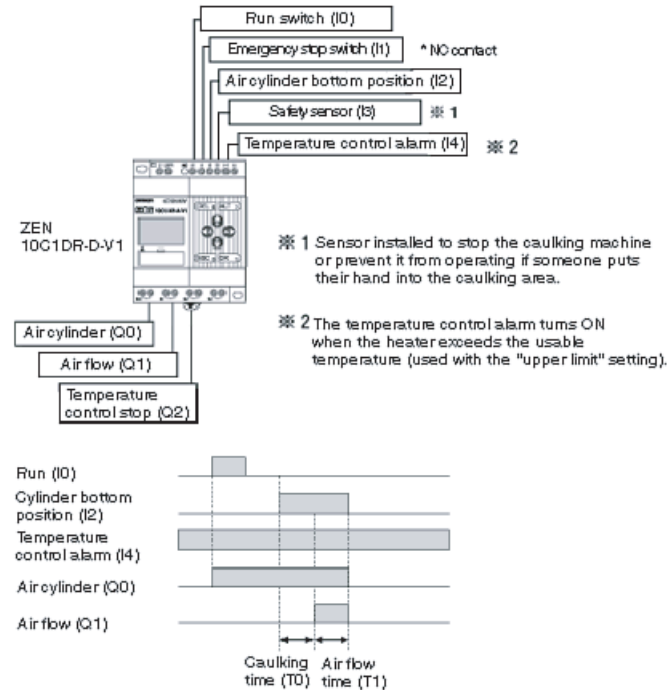


● Bit Logic and Timer Application

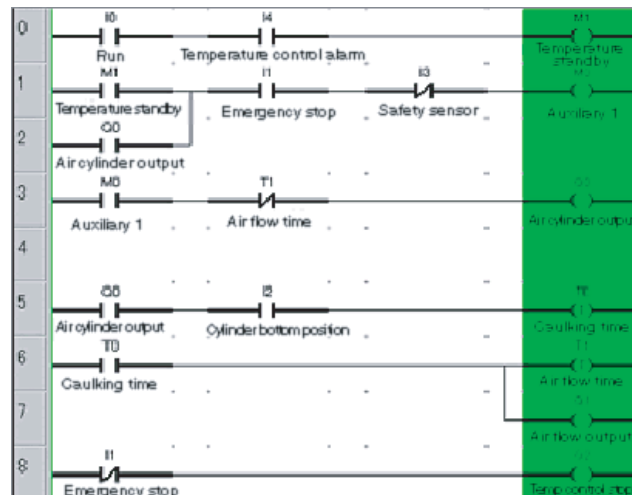


When the switch is turned ON, the heater on the tip of the air cylinder drops and melts the caulk just before applying it to adhere the LED. The heater is slowly pulled up and away with cool air circulating around it to ensure a clean separation from the newly mounted LED.

■ System Configuration



■ Program Example



When the operating switch (I0) turns ON, the cylinder (Q0) attached to the heater turns ON and starts to drop. When it reaches the bottom, the bottom position sensor (I2) for the cylinder turns ON, and the machine caulks for 3 s (caulking time timer (T0)). Air (Q1) then blows for 3 s (air flow time timer (T1)). The air cylinder (Q0) turns OFF, and the air cylinder rises back to the starting position.

*Turning ON the emergency stop switch (I1) stops operation and temperature control.

■ Parameter Settings

Caulking timer T0

| T0 | X | S | A |
|-----|---|------|---|
| TRG | | | |
| RES | | 3.00 | |

Set to 3 s.

Air flow timer T1

| T1 | X | S | A |
|-----|---|------|---|
| TRG | | | |
| RES | | 3.00 | |

Set to 3 s.