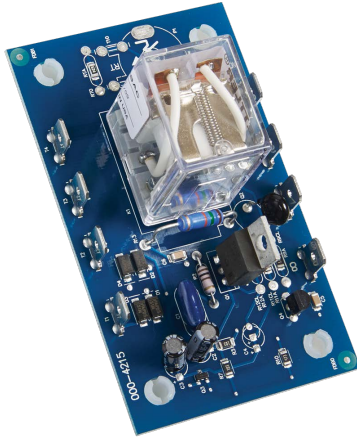


ORM SERIES



Description

The ORM Series features open PC board construction for reduced cost. It has isolated, 10A, DPDT relay contacts and all connections are 0.25 in (6.35 mm) male quick connect terminals. The time delay may be ordered as factory fixed, onboard knob, or external adjustment. Time delays from 0.05 - 300 seconds.

Operation (Delay-on-Make)

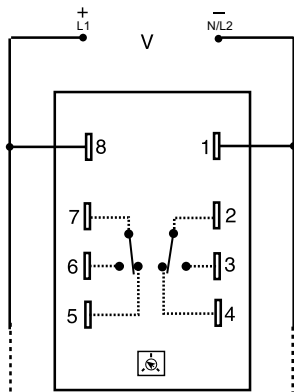
Upon application of input voltage, the time delay begins. The output is de-energized before and during the time delay. At the end of the time delay, the output energizes and remains energized until voltage is removed.

Reset: Removing input voltage resets the time delay and output.

Features & Benefits

| FEATURES | BENEFITS |
|--|---|
| Analog circuitry with electromechanical relay | Repeat Accuracy + / - 2% |
| Isolated 10A, DPDT output contacts | Allows control of loads for AC or DC voltages |
| Open PCB construction | Reduces cost for OEM applications |

Wiring Diagram



V = Voltage

RT is used when external adjustment is ordered. Relay contacts are isolated.

Accessories



P1004-12, P1004-12-X Versa-Pot

Panel mountable, industrial potentiometer recommended for remote time delay adjustment.



P0700-7 Versa-Knob

Designed for 0.25 in (6.35 mm) shaft of Versa-Pot. Semi-gloss industrial black finish.



P1015-64 (AWG 14/16)

Female Quick Connect

These 0.25 in. (6.35 mm) female terminals are constructed with an insulator barrel to provide strain relief.



P1015-18 Quick Connect to Screw Adapter

Screw adapter terminal designed for use with all modules with 0.25 in. (6.35 mm) male quick connect terminals.

Ordering Information

| MODEL | INPUT VOLTAGE | ADJUSTMENT | TIME DELAY |
|------------|---------------|--------------|------------|
| ORM120A17 | 120VAC | Fixed | 7s |
| ORM120A25 | 120VAC | Onboard knob | 3 - 300s |
| ORM230A17 | 230VAC | Fixed | 7s |
| ORM24D13.5 | 24VDC/28VDC | Fixed | 3.5s |
| ORM24D22 | 24VDC | Onboard knob | 0.5 - 30s |

If you don't find the part you need, call us for a custom product 800-843-8848

ORM SERIES

Specifications

Time Delay

Type Analog circuitry
Range 0.05 - 300s in 5 adjustable ranges or fixed
Repeat Accuracy ±2% or 20ms, whichever is greater
Tolerance Adjustable: guaranteed range
 Fixed: ±10%
Recycle Time After timing - ≤ 16ms;
 During timing - 0.1% of max. time delay or 75ms, whichever is greater

Time Delay vs Temp. & Voltage

≤ ±10%

Input

Voltage 24 or 110VDC; 24, 120, or 230VAC
Tolerance -15% - 20%
24VDC/AC -20% - 10%
110 to 230VAC/DC 50/60 Hz
AC Line Frequency 50/60 Hz
Power Consumption 2.25W

Output

Type Electromechanical relay
Form DPDT, Isolated
Rating 10A resistive @ 120/240VAC & 28VDC;
 1/3 hp @ 120/240VAC
Life Mechanical - 1x10⁷; Electrical - 1x10⁶
Protection
Polarity DC units are reverse polarity protected
Isolation Voltage ≥1500V RMS input to output
Mechanical
Mounting Surface mount with four #6 (M3.5 x 0.6) screws
Dimensions **H** 53.8 mm (2.12"); **W** 93.7 mm (3.69");
D 47.8 mm (1.88")
Termination 0.25 in. (6.35 mm) male quick connect terminals

Environmental

Operating/Storage Temperature -20° to 65°C / -30° to 85°C
Weight ≈ 2.7 oz (77 g)

Selection Guide

| RT Selection Chart | | | | | |
|---------------------|-----|-----|-----|-----|--------------|
| Desired Time Delay* | | | | | RT Megohm |
| Seconds | | | | | |
| 1 | 2 | 3 | 4 | 5 | |
| 0.05 | 0.5 | 0.6 | 1.2 | 3.0 | 0.0 |
| 0.5 | 5.0 | 10 | 20 | 50 | 0.5 |
| 1.0 | 10 | 20 | 40 | 100 | 1.0 |
| 1.5 | 15 | 30 | 60 | 150 | 1.5 |
| 2.0 | 20 | 40 | 80 | 200 | 2.0 |
| 2.5 | 25 | 50 | 100 | 250 | 2.5 |
| 3.0 | 30 | 60 | 120 | 300 | 3.0 |

* When selecting an external RT add at least 20% for tolerance of unit and the RT.

Function Diagram

