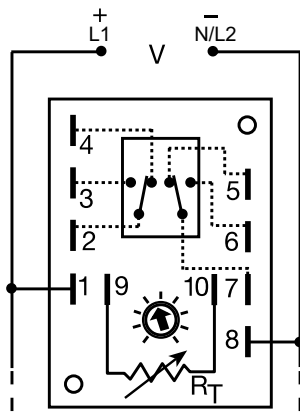


ERDM SERIES



Wiring Diagram



V = Voltage

A knob, or terminals 9 & 10 are only included on adjustable units. Relay contacts are isolated.

R_T is used when external adjustment is ordered.

Description

The ERDM Series is a combination of digital electronics and a reliable electromechanical relay. These devices offer a DPDT relay output for relay logic circuits, and isolation of input to output voltages. Cost effective for OEM applications, such as random starting, sequencing ON, switch de-bouncing, anti-short cycling, and other common delay-on-make applications.

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 input voltage is removed.

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

Features & Benefits

| FEATURES | BENEFITS |
|--|---|
| Digital integrated circuitry with electromechanical relay | Repeat Accuracy + / - 0.5% |
| Isolated 10A, DPDT output contacts | Allows control of loads for AC or DC voltages |
| Encapsulated | Protects against shock, vibration, and humidity |

Accessories

- 
P1004-16, P1004-16-XVersa-Pot
 Panel mountable, industrial potentiometer recommended for remote time delay adjustment.
- 
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 | MODEL | INPUT VOLTAGE | ADJUSTMENT | TIME DELAY |
|-----------|---------------|--------------|------------|---------|---------------|--------------|------------|
| ERDM123 | 12VDC | Onboard knob | 0.1 - 10s | ERDM422 | 120VAC | Onboard knob | 0.1 - 5s |
| ERDM126 | 12VDC | Onboard knob | 0.6 - 60s | ERDM423 | 120VAC | Onboard knob | 0.1 - 10s |
| ERDM128 | 12VDC | Onboard knob | 0.1 - 10m | ERDM425 | 120VAC | Onboard knob | 0.3 - 30s |
| ERDM222 | 24VAC | Onboard knob | 0.1 - 5s | ERDM427 | 120VAC | Onboard knob | 0.1 - 5m |
| ERDM4130S | 120VAC | Fixed | 30s | ERDM429 | 120VAC | Onboard knob | 0.2 - 15m |
| ERDM4210 | 120VAC | Onboard knob | 1 - 100m | | | | |

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

ERDM SERIES

Specifications

Time Delay

Type Digital integrated circuitry
Range 0.1s - 500m in 11 adjustable ranges or
 0.1s - 1000m fixed

Adjustment Fixed, onboard or external adjust

Repeat Accuracy ±0.5%

Tolerance (Factory Calibration) ≤ ±10%

Recycle Time ≤ 150ms

Time Delay vs Temp. & Voltage ≤ ±2%

Input

Voltage 12, 24, or 120VDC; 24, 120, or 230VAC

Tolerance -15% - 20%

12VDC & 24VDC/AC -20% - 10%

120VAC/DC & 230VAC 50/60 Hz

AC Line Frequency

Output

Type Isolated relay contacts

Form DPDT

Rating 10A resistive @ 120/240VAC & 28VDC;
 1/3 hp @ 120/240VAC

Life Mechanical - 1 x 10⁷; Full Load - 1 x 10⁶

Protection ≥1500V RMS input to output

Isolation Voltage ≥100 MΩ

Insulation Resistance DC units are reverse polarity protected

Polarity

Mechanical Surface mount with two #6
 (M3.5 x 0.6) screws

Mounting **H** 88.9 mm (3.5"); **W** 63.5 mm (2.5");
D 43.2 mm (1.7")

Dimensions 0.25 in. (6.35 mm) male quick connect terminals

Termination -40° to 65°C / -40° to 85°C

Environmental ≅ 5.7 oz (162 g)

Operating/Storage Temperature

Weight

Selection Guides

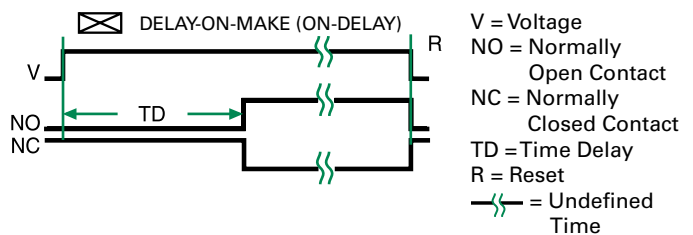
| R _T Selection Chart | | | | | | |
|--------------------------------|-----|-----|------|-----|-----|--------------------------|
| Desired Time Delay* | | | | | | R _T Megohm |
| Seconds | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | |
| 0.1 | 0.1 | 0.1 | 0.2 | 0.3 | 0.6 | 0.0 |
| 0.19 | 0.6 | 1 | 1.7 | 3 | 6 | 0.1 |
| 0.28 | 1.1 | 2 | 3.2 | 6 | 12 | 0.2 |
| 0.37 | 1.6 | 3 | 4.7 | 9 | 18 | 0.3 |
| 0.46 | 2.1 | 4 | 6.2 | 12 | 24 | 0.4 |
| 0.55 | 2.6 | 5 | 7.7 | 15 | 30 | 0.5 |
| 0.64 | 3.0 | 6 | 9.2 | 18 | 36 | 0.6 |
| 0.73 | 3.5 | 7 | 10.7 | 21 | 42 | 0.7 |
| 0.82 | 4.0 | 8 | 12.2 | 24 | 48 | 0.8 |
| 0.91 | 4.5 | 9 | 13.7 | 27 | 54 | 0.9 |
| 1.0 | 5.0 | 10 | 15 | 30 | 60 | 1.0 |

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

| R _T Selection Chart | | | | | |
|--------------------------------|-----|------|-----|-----|--------------------------|
| Desired Time Delay* | | | | | R _T Megohm |
| Minutes | | | | | |
| 7 | 8 | 9 | 10 | 11 | |
| 0.1 | 0.1 | 0.2 | 1 | 10 | 0.0 |
| 0.6 | 1 | 1.7 | 10 | 50 | 0.1 |
| 1.1 | 2 | 3.2 | 20 | 100 | 0.2 |
| 1.6 | 3 | 4.7 | 30 | 150 | 0.3 |
| 2.1 | 4 | 6.2 | 40 | 200 | 0.4 |
| 2.6 | 5 | 7.7 | 50 | 250 | 0.5 |
| 3.0 | 6 | 9.2 | 60 | 300 | 0.6 |
| 3.5 | 7 | 10.7 | 70 | 350 | 0.7 |
| 4.0 | 8 | 12.2 | 80 | 400 | 0.8 |
| 4.5 | 9 | 13.7 | 90 | 450 | 0.9 |
| 5.0 | 10 | 15 | 100 | 500 | 1.0 |

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

Function Diagram



Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru