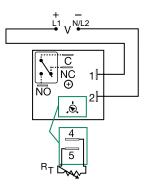
# KRDM SERIES



# (€¶1)®



# Wiring Diagram



V = Voltage C = Common, Transfer Contact NO = Normally Open NC = Normally Closed

A knob is supplied for adjustable units, or  $R_T$  terminals 4 & 5 for external adjust. See external adjustment vs time delay chart. Relay contacts are isolated.

## Description

The KRDM Series is a compact time delay relay measuring only 2 in. (50.8 mm) square. Its solid-state timing circuit provides excellent repeat accuracy and stability. Encapsulation protects against shock, vibration, and humidity. The KRDM Series is a cost effective approach for OEM applications that require small size, isolation, reliability, and long life.

### 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 relay energizes and remains energized until input voltage is removed.

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

### **Features & Benefits**

| FEATURES                            | BENEFITS  |  |  |  |
|-------------------------------------|---|--|--|--|
| Microcontroller based               | Repeat Accuracy + / - 0.5%                      |  |  |  |
| Compact, low<br>cost design         | Allows flexiblility for OEM applications        |  |  |  |
| Isolated, 10A, SPDT output contacts | Allows control of loads for AC or DC voltages   |  |  |  |
| Encapsulated                        | Protects against shock, vibration, and humidity |  |  |  |

### Accessories



### P1004-95, P1004-95-X Versa-Pot

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



### ecommended for remote time d

**P1023-6 Mounting bracket** The 90° orientation of mounting slots makes installation/removal of modules quick and easy.

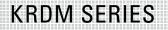
### **P0700-7 Versa-Knob** Designed for 0.25 in (6.35 mm) shaft of

Versa-Pot. Semi-gloss industrial black finish.

### Ordering Information

| · · · · · · |               |              |            |           |               |              |            |
|-------------|---------------|--------------|------------|-----------|---------------|--------------|------------|
| MODEL       | INPUT VOLTAGE | ADJUSTMENT   | TIME DELAY | MODEL     | INPUT VOLTAGE | ADJUSTMENT   | TIME DELAY |
| KRDM1110S   | 12VDC         | Fixed        | 10s        | KRDM4110M | 120VAC        | Fixed        | 10m        |
| KRDM1130S   | 12VDC         | Fixed        | 30s        | KRDM4110S | 120VAC        | Fixed        | 10s        |
| KRDM120     | 12VDC         | Onboard knob | 0.1 - 10s  | KRDM4145S | 120VAC        | Fixed        | 45s        |
| KRDM121     | 12VDC         | Onboard knob | 1 - 100s   | KRDM420   | 120VAC        | Onboard knob | 0.1 - 10s  |
| KRDM2110M   | 24VAC/DC      | Fixed        | 10m        | KRDM421   | 120VAC        | Onboard knob | 1 - 100s   |
| KRDM215M    | 24VAC/DC      | Fixed        | 5m         | KRDM424   | 120VAC        | Onboard knob | 1 - 100m   |
| KRDM220     | 24VAC/DC      | Onboard knob | 0.1 - 10s  | KRDM430   | 120VAC        | External     | 0.1 - 10s  |
| KRDM221     | 24VAC/DC      | Onboard knob | 1 - 100s   | KRDM433   | 120VAC        | External     | 0.1 - 10m  |
| KRDM223     | 24VAC/DC      | Onboard knob | 0.1 - 10m  | KRDM6115M | 230VAC        | Fixed        | 15m        |
| KRDM310.2S  | 24VDC         | Fixed        | 0.2s       |           |               |              |            |

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





### Accessories



P1015-13 (AWG 10/12), 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 guick connect terminals.



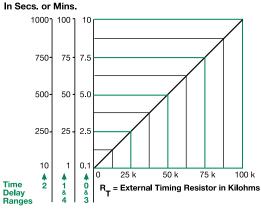
C103PM (AL) DIN Rail 35 mm aluminum DIN rail available in a 36 in. (91.4 cm) length.



P1023-20 DIN Rail Adapter

Allows module to be mounted on a 35 mm DIN type rail with two #10 screws.

## **External Resistance vs. Time Delav**

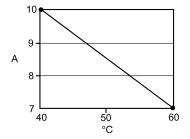


### This chart applies to externally adjustable part numbers. The time delay is adjustable over the time delay range selected by varying the resistance across the RT terminals; as the resistance increases the

time delay increases.

time delay increases. When selecting an external Rr, add the tolerances of the timer and the Rr for the full time range adjustment. **Examples:** 1 to 50 S adjustable time delay, select time delay range 1 and a 50 K ohm Rr. For 1 to 100 S use a 100 K ohm Rr.

**Output Current/Ambient Temperature** 



# **Specifications**

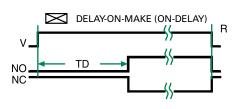
**Time Delay** Range **Repeat Accuracy** Tolerance **Factory Calibration**) **Recycle Time** Time Delay vs Temp. & Voltage Input Voltage Tolerance **12VDC & 24VAC/DC** 110VDC 120 & 230VAC AC Line Frequency/DC Ripple **Power Consumption** Output Type Form Rating (at 40°C)

Max. Switching Voltage Life (Operations) Protection Circuitry **Isolation Voltage Insulation Resistance** Polarity **Mechanical** Mounting Dimensions

Termination **Environmental Operating/Storage** Temperature Humidity

Weight

**Function Diagram** 



V = Voltage NO = Normally Open Contact NC = Normally**Closed Contact** TD = Time Delay R = Reset - = Undefined Time

# ±0.5% or 20ms, whichever is greater $\leq \pm 5\%$

0.1s - 100m in 5 adjustable ranges or fixed

≤ 150ms  $\leq \pm 5\%$ 

12, 24 or 110VDC; 24, 120 or 230VAC

-15% - 20% -20% - 10% 50/60 Hz / ≤ 10%  $AC \le 2VA; DC \le 2W$ 

Isolated relay contacts SPDT 10A resistive @ 125VAC; 5A resistive @ 230VAC & 28VDC; 1/4 hp @ 125VAC 250VAC Mechanical - 1 x 107; Electrical - 1 x 105

Encapsulated ≥ 1500V RMS input to output  $\geq$  100 M $\Omega$ DC units are reverse polarity protected

Surface mount with one #10 (M5 x 0.8) screw **H** 50.8 mm (2.0"); **W** 50.8 mm (2.0"); **D** 30.7 mm (1.21") 0.25 in. (6.35 mm) male quick connect terminals

-20° to 60°C / -40° to 85°C 95% relative, non-condensing ≈ 2.6 oz (74 g)

单击下面可查看定价,库存,交付和生命周期等信息

>>Littelfuse(美国力特)