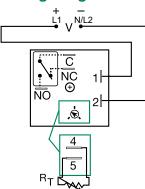
KRD3 SERIES







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 KRD3 Series measures only 2 in. (50.8 mm) square.lts solid-state timing circuit provides excellent repeat accuracy and stability. Encapsulation protects against shock, vibration, and humidity. The KRD3 Series is a cost effective approach for OEM applications that require small size, isolation, reliability, and long life.

Operation (Recycling Flasher - ON Time First)

Upon application of input voltage, the output energizes and the T1 ON time begins. At the end of the ON time, the output de-energizes and the T2 OFF time begins. At the end of the OFF time, the output energizes and the cycle repeats as long as input voltage is applied.

Reset: Removing input voltage resets the output and time delays, and returns the sequence to T1 ON time.

Features & Benefits

BENEFITS
Provides greater flexibility for OEM applications and reduces component and labor costs
Repeat Accuracy + / -0.5%, Factory calibration + / - 5%
Allows control of loads for AC or DC voltages
Protects against shock, vibration, and humidity

Accessories



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

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



strain relief.

C103PM (AL) DIN Rail

The 90° orientation of mounting slots makes installation/removal of modules guick and easy.



P0700-7 Versa-Knob Designed for 0.25 in (6.35 mm) shaft of Versa-Pot. Semi-gloss industrial black finish.



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



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.



(91.4 cm) length. P1023-20 DIN Rail Adapter

35 mm aluminum DIN rail available in a 36 in.

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

Ordering Information

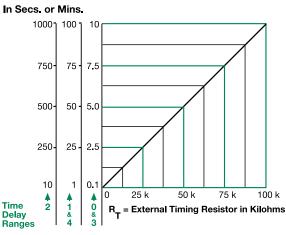
MODEL	INPUT VOLTAGE	ADJUSTMENT	TIME DELAY	OPERATING SEQUENCE
KRD3420A	120VAC	Onboard knob	0.1 - 10s	On time first
KRD3421A	120VAC	Onboard knob	1 - 100s	On time first
KRD3434A	120VAC	External	1 - 100m	On time first

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

KRD3 SERIES



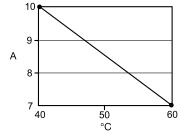
External Resistance vs. Time Delav



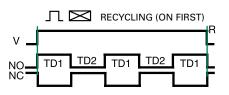
This chart applies to externally adjustable part numbers. The time delay is adjustable over the time delay range selected by varying the resistance across the RT terminals; as the resistance increases the time delay increases. When selecting an external RT, add the tolerances of the timer and the RT

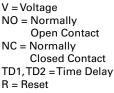
Examples: 1 to 50 S adjustable time delay, select time delay range 1 and a 50 K ohm RT. For 1 to 100 S use a 100 K ohm RT.

Output Current/Ambient Temperature



Function Diagram





Specifications

Time Delay Range **Repeat Accuracy** Tolerance (Factory Calibration) **Reset Time** Time Delay vs Temp. & Voltage Input Voltage Tolerance 12VDC & 24VDC/AC 110VDC, 120 or 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

 $\leq \pm 5\%$ ≤ 150ms

0.1s - 100m in 5 adjustable ranges or fixed

±0.5% or 20ms, whichever is greater

 $\leq \pm 5\%$

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 Ω DC units are reverse polarity protected

Surface mount with one #10 (M5 x 0.8) screw **H** 50.8 mm (2"); **W** 50.8 mm (2"); **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)

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Littelfuse: KRD3424A KRD3421A