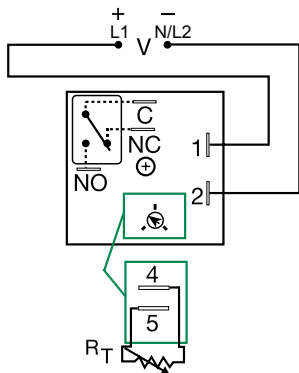


KRD3 SERIES



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.

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

Description

The KRD3 Series measures 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 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

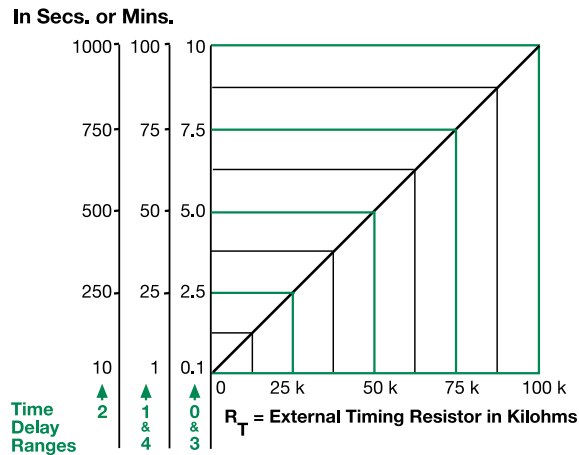
FEATURES	BENEFITS
Compact, low cost design measuring 2 in. (50.8mm) square	Provides greater flexibility for OEM applications and reduces component and labor costs
Microcontroller based	Repeat Accuracy +/- 0.5%, Factory calibration +/- 5%
Isolated, 10A, SPDT output contacts	Allows control of loads for 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.
- 
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.
- 
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 quick 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.

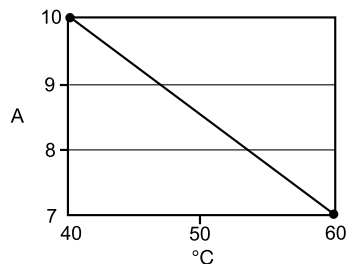
KRD3 SERIES

External Resistance vs. Time Delay

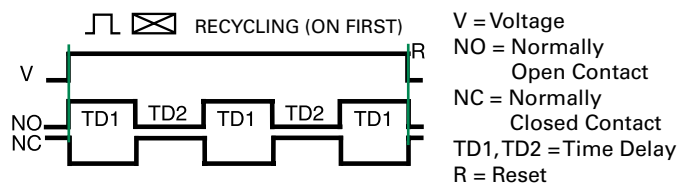


This chart applies to externally adjustable part numbers. The time delay is adjustable over the time delay range selected by varying the resistance across the R_T terminals; as the resistance increases the time delay increases. When selecting an external R_T, add the tolerances of the timer and the R_T for the full time range adjustment. **Examples:** 1 to 50 S adjustable time delay, select time delay range 1 and a 50 K ohm R_T. For 1 to 100 S use a 100 K ohm R_T.

Output Current/Ambient Temperature



Function Diagram



Specifications

Time Delay Range	0.1s - 100m in 5 adjustable ranges or fixed
Repeat Accuracy Tolerance (Factory Calibration)	±0.5% or 20ms, whichever is greater
Reset Time	≤ ± 5%
Time Delay vs Temp. & Voltage	≤ 150ms
Input Voltage	≤ ± 5%
Tolerance	12, 24 or 110VDC; 24, 120, or 230VAC
12VDC & 24VDC/AC	-15% - 20%
110VDC, 120 or 230VAC	-20% - 10%
AC Line Frequency/DC Ripple	50/60 Hz / ≤ 10%
Power Consumption	AC ≤ 2VA; DC ≤ 2W
Output Type	Isolated relay contacts
Form	SPDT
Rating (at 40°C)	10A resistive @ 125VAC; 5A resistive @ 230VAC & 28VDC; 1/4 hp @ 125VAC
Max. Switching Voltage	250VAC
Life (Operations)	Mechanical - 1 x 10 ⁷ ; Electrical - 1 x 10 ⁵
Protection Circuitry	Encapsulated
Insulation Voltage	≥ 1500V RMS input to output
Insulation Resistance	≥ 100 MΩ
Polarity	DC units are reverse polarity protected
Mechanical Mounting	Surface mount with one #10 (M5 x 0.8) screw
Dimensions	H 50.8 mm (2"); W 50.8 mm (2"); D 30.7 mm (1.21")
Termination	0.25 in. (6.35 mm) male quick connect terminals
Environmental Operating/Storage Temperature	-20° to 60°C / -40° to 85°C
Humidity	95% relative, non-condensing
Weight	≈ 2.6 oz (74 g)