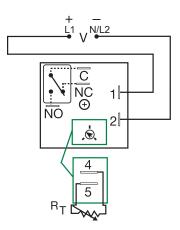
KRDI SERIES







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 KRDI 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 KRDI Series is a cost effective approach for OEM applications that require small size, isolation, reliability, and long life.

Operation (Interval)

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

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

Features & Benefits

BENEFITS
Allows flexiblility for OEM applications
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.



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.



strain relief.

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.

Ordering Information

MODEL	INPUT VOLTAGE	ADJUSTMENT	TIME DELAY
KRDI120	12VDC	Onboard knob	0.1 - 10s
KRDI121	12VDC	Onboard knob	1 - 100s
KRDI122	12VDC	Onboard knob	10 - 1000s
KRDI2110S	24VAC/VDC	Fixed	10s
KRDI2160S	24VAC/VDC	Fixed	60s
KRDI220	24VAC/VDC	Onboard knob	0.1 - 10s
KRDI320	24VDC	Onboard knob	0.1 - 10s
KRDI420	120VAC	Onboard knob	0.1 - 10s
KRDI424	120VAC	Onboard knob	1 - 100m

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

KRDI SERIES



Accessories



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.

Specifications

Time Delay

Range **Repeat Accuracy** Tolerance (Factory Calibration) **Reset Time** Time Delay vs Temp. & Voltage Input Voltage Tolerance 12VDC & 24VDC/AC 110VDC, 120VAC 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 $\pm 0.5\%$ or 20ms, whichever is greater $\leq \pm 5\%$

0.1s - 100m in 5 adjustable ranges or fixed

≤ 150ms ≤ ±5%

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

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

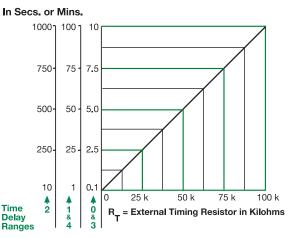
Isolated relay contacts SPDT 10A resistive @ 125VAC; 5A resistive @ 230VAC & 28VDC; 1/4 hp @ 125VAC 250VAC Mechanical - 1 x 10⁷; Electrical - 1 x 10⁵

Encapsulated \geq 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 \approx 2.6 oz (74 g)

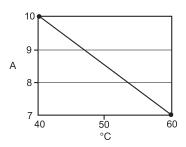
External Resistance vs. Time Delay



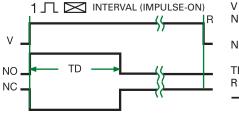
This chart applies to externally adjustable part numbers. The time delay is adjustable over the time delay range selected by varying the resistance across the Rt terminals; as the resistance increases the time delay increases.

When selecting an external RT, add the tolerances of the timer and the RT for the full time range adjustment. **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



V = Voltage NO = Normally Open Contact NC = Normally Closed Contact TD = Time Delay R = Reset \rightarrow = Undefined Time

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