

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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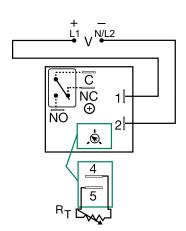


KRDI SERIES





Wiring Diagram



V = Voltage

C = Common, Transfer Contact

NO = Normally Open

NC = Normally Closed

A knob is supplied for adjustable units, or RT 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

FEATURES	BENEFITS	
Compact, low cost design measuring 2 in. (50.8mm) square	Allows flexiblility for OEM applications	
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 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 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
KRDI120	12VDC	Onboard knob	0.1 - 10s
KRDI121	12VDC	Onboard knob	1 - 100s
KRDI122	12VDC	Onboard knob	10 - 1000s
KRDI2110S	24VAC	Fixed	10s
KRDI2160S	24VAC	Fixed	60s
KRDI220	24VDC	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 0.1s - 100m in 5 adjustable ranges or fixed Repeat Accuracy ±0.5% or 20ms, whichever is greater

Tolerance

(Factory Calibration) $\leq \pm 5\%$ **Reset Time** ≤ 150ms

Time Delay vs Temp.

& Voltage $\leq \pm 5\%$

Input

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

Tolerance 12VDC & 24VDC/AC -15% - 20%

110VDC, 120VAC or 230VAC -20% - 10% AC Line Frequency/DC Ripple $50/60 \text{ Hz} / \le 10\%$ **Power Consumption** $AC \le 2VA$; $DC \le 2W$

Output

Type Isolated relay contacts

SPDT Form

Rating (at 40°C) 10A resistive @ 125VAC;

5A resistive @ 230VAC & 28VDC;

1/4 hp @ 125VAC

Max. Switching Voltage 250VAC

Life (Operations) Mechanical - 1 x 107; Electrical - 1 x 105

Protection

Circuitry Encapsulated

Isolation Voltage ≥ 1500V RMS input to output

≥ 100 MΩ Insulation Resistance

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

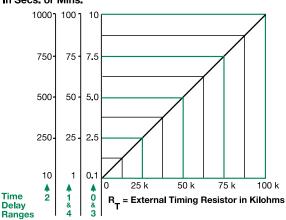
Operating/Storage

Temperature -20° to 60°C / -40° to 85°C Humidity 95% relative, non-condensing

Weight $\approx 2.6 \text{ oz } (74 \text{ g})$

External Resistance vs. Time Delay

In Secs. or Mins. 10005 100 1



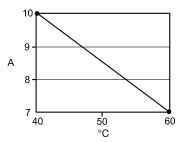
This chart applies to externally adjustable part numbers.

The time delay is adjustable over the time delay range selected by varying the resistance across the R τ terminals; as the resistance increases the time delay increases.

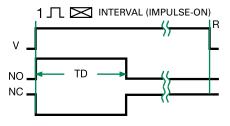
When selecting an external RT, add the tolerances of the timer and the RT

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

اريــ = Undefined Time