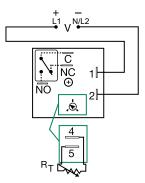
KRDM SERIES







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 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 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.



P1023-6 Mounting bracket

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



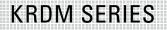
P0700-7 Versa-Knob Designed for 0.25 in (6.35 mm) shaft of

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.



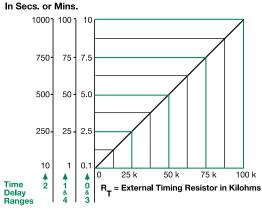
C103PM (AL) DIN Rail 35 mm aluminum DIN rail available in a 36 in. (91.4 cm) length.



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

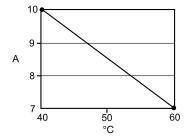


This chart applies to externally adjustable part numbers. The time delay is adjustable over the time delay range selected by varying the resistance across the RT terminals; as the resistance increases the

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

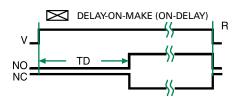
Time Delay Range **Repeat Accuracy** Tolerance **Factory Calibration**) **Recycle Time** Time Delay vs Temp. & Voltage Input Voltage Tolerance **12VDC & 24VAC/DC** 110VDC 120 & 230VAC AC Line Frequency/DC Ripple **Power Consumption** Output Type Form Rating (at 40°C)

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 Ω 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)