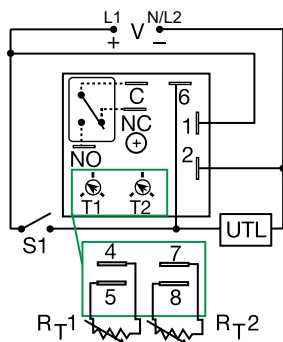


# KRPD SERIES

## Relay Output Timer



### Wiring Diagram



V = Voltage  
C = Common, Transfer Contact  
NC = Normally Closed  
NO = Normally Open  
S1 = Initiate Switch  
UTL = Untimed Load

A knob is supplied for adjustable units or  $R_T$  terminals for external adjust. The untimed load is optional. S1 is not used for some functions.

### Description

The KRPD Series is a factory programmed time delay relay available with 1 of 12 standard dual functions. The time delays can be factory fixed, onboard or externally adjustable or a combination of fixed and adjustable. The SPDT output relay contacts offer a full 10A rating with complete isolation. Its microcontroller timing circuit provides excellent repeat accuracy and stability. Encapsulation protects against shock, vibration, and humidity. The KRPD Series is a cost effective approach for OEM applications that require small size, isolation, accuracy and long life.

### Features & Benefits

FEATURES	BENEFITS
<b>Microcontroller based</b>	Repeat Accuracy +/- 0.5%
<b>Compact design</b>	Allows flexibility for OEM applications
<b>Isolated, 10A, SPDT output contacts</b>	Allows control of loads for AC or DC voltages
<b>Encapsulated</b>	Encapsulated to protect against shock, vibration, and humidity

### Accessories



**P1004-95, P1004-95-X Versa-Pot**  
Panel mountable, industrial potentiometer recommended for remote time delay adjustment.



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



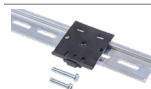
**P1015-64 (AWG 14/16) Female Quick Connect**  
These 0.25 in. (6.35 mm) female terminals are constructed with an insulator barrel to provide strain relief.



**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.

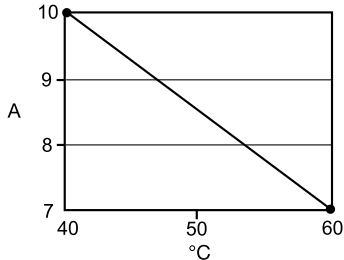
### Ordering Information

MODEL	INPUT	ADJUSTMENT 1	TIME DELAY 1	ADJUSTMENT 2	TIME DELAY 2	FUNCTION
KRPD215S190SMB	24VAC	Fixed	5s	Fixed	90s	Delay-on-Make/Delay-on-Break
KRPD417M113MRXD	120VAC	Fixed	7m	Fixed	13m	Recycling/Off Time First
KRPDA175S130SMI	24 to 240VAC/DC	Fixed	75s	Fixed	30s	Delay-on-Make/Interval
KRPDA2129RXE	24 to 240VAC/DC	Onboard	0.1 - 10s	Onboard	10 - 1000h	Recycling
KRPDD2121MB	12 to 48VDC	Onboard	0.1-10s	Onboard	0.1-10s	Delay-on-Make/Delay-on-Break

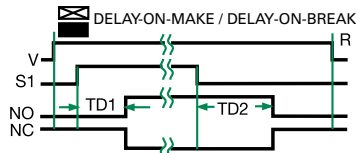
If you don't find the part you need, call us for a custom product 800-843-8848

# KRPD SERIES

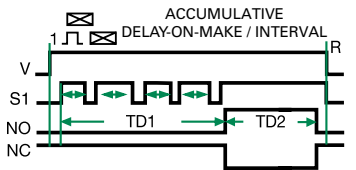
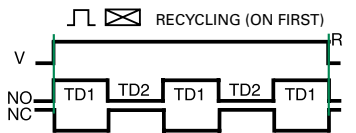
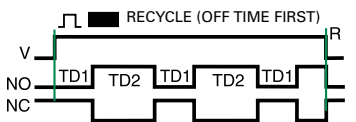
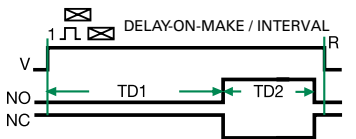
## Output Current/Ambient Temperature



## Function Diagrams



V = Voltage  
S1 = Initiate Switch  
NO = Normally Open Contact  
NC = Normally Closed Contact  
TD1, TD2 = Time Delay  
R = Reset  
— = Undefined Time



## Specifications

### Time Delay

**Type**  
**Range**

Microcontroller circuitry  
0.1s - 1000h in 9 adjustable ranges or fixed (to 999)

**Repeat Accuracy Tolerance (Factory Calibration)**

±0.5% or 20ms, whichever is greater

**Reset Time**

≤ 150ms

**Initiate Time**

≤ 40ms; 750 operations per minute

**Time Delay vs. Temperature & Voltage**

≤ ±2%

### Input

**Voltage**

12 to 48VDC; 24 to 240VAC/DC

**Tolerance**

-15% - 20%

**12 to 48VDC**

-20% - 10%

**24 to 240VAC/DC**

**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

250VAC

Mechanical - 1 x 10<sup>7</sup>; Electrical - 1 x 10<sup>5</sup>

**Max. Switching Voltage**

**Life (Operations)**

### Protection

**Circuitry**

Encapsulated

**Isolation 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 connects

### Environmental

**Operating/Storage**

**Temperature**

-40° to 60°C / -40° to 85°C

**Humidity**

95% relative, non-condensing

**Weight**

≈ 2.6 oz (74 g)