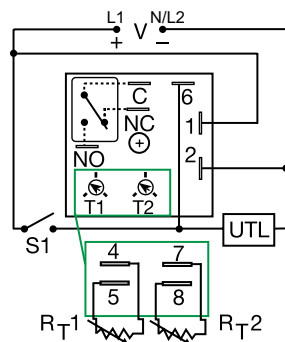


## KRPD SERIES

### 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.



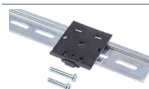
#### P1015-18 Quick Connect to Screw Adapter

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.

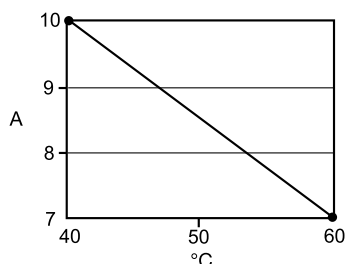
### Ordering Information

| 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 |

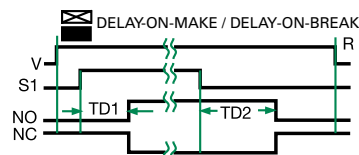
If you don't find the part you need, call us for a custom product 800-843-8848

## KRPD SERIES

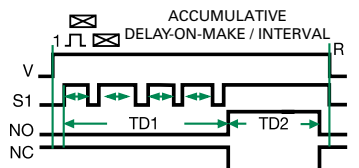
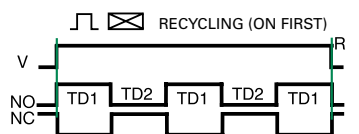
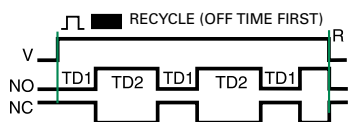
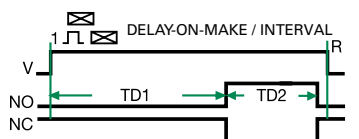
### Output Current/Ambient Temperature



### 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)

##### Reset Time

##### Initiate Time

##### Time Delay vs. Temperature

##### & Voltage

$\pm 0.5\%$  or 20ms, whichever is greater  
 $\leq \pm 2\%$   
 $\leq 150\text{ms}$   
 $\leq 40\text{ms}$ ; 750 operations per minute  
 $\leq \pm 2\%$

#### Input

##### Voltage

##### Tolerance

##### 12 to 48VDC

##### 24 to 240VAC/DC

##### AC Line Frequency/DC Ripple

##### Power Consumption

#### Output

##### Type

##### Form

##### Rating (at 40°C)

12 to 48VDC; 24 to 240VAC/DC  
 $-15\%$  -  $20\%$   
 $-20\%$  -  $10\%$   
50/60 Hz /  $\leq 10\%$   
AC  $\leq 2\text{VA}$ ; DC  $\leq 2\text{W}$

Isolated relay contacts

SPDT

10A resistive @ 125VAC

5A resistive @ 230VAC & 28VDC

1/4 hp @ 125VAC

250VAC

Mechanical -  $1 \times 10^7$ ; Electrical -  $1 \times 10^5$

#### Max. Switching Voltage

#### Life (Operations)

#### Protection

#### Circuitry

#### Isolation Voltage

#### Insulation Resistance

#### Polarity

#### Mechanical

#### Mounting

#### Dimensions

#### Termination

#### Environmental

#### Operating/Storage

#### Temperature

#### Humidity

#### Weight

Encapsulated  
 $\geq 1500\text{V RMS}$  input to output  
 $\geq 100\text{ M}\Omega$   
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 connects

$-40^\circ$  to  $60^\circ\text{C}$  /  $-40^\circ$  to  $85^\circ\text{C}$

95% relative, non-condensing

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