

KRPD SERIES

Relay Output Timer



(€ ₹1 ®

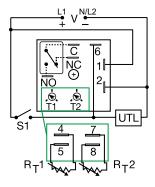
Description

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

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.

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

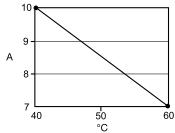
MODEL	INPUT	ADJUSTMENT 1	TIME DELAY 1	ADJUSTMENT 2	TIME DELAY 2	FUNCTION
KRPD215S190SMB	24VAC	Fixed	5s	Fixed	90s	Delay-on-Make/Delay-on-Break
KRPD417M113MRXD	120VAC	Fixed	7m	Fixed	13m	Recycling/Off Time First
KRPDA175S130SMI	24 to 240VAC/DC	Fixed	75s	Fixed	30s	Delay-on-Make/Interval
KRPDA2129RXE	24 to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

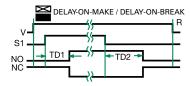


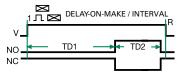
KRPD SERIES

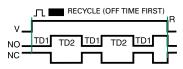
Output Current/Ambient Temperature

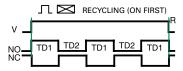


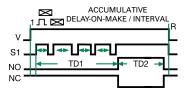
Function Diagrams











V = Voltage

S1 = Initiate Switch NO = Normally Open

Contact

NC = Normally Closed

Contact TD1,TD2 = Time Delay

R = Reset

-{← = Undefined Time

(Factory C

(Factory Calibration) $\leq \pm 2\%$ Reset Time $\leq 150 \text{ms}$

Initiate Time ≤ 40ms; 750 operations per minute

(to 999)

Microcontroller circuitry

0.1s - 1000h in 9 adjustable ranges or fixed

±0.5% or 20ms, whichever is greater

Time Delay vs. Temperature

Specifications

Time Delay Type

Tolerance

Repeat Accuracy

Range

& Voltage $\leq \pm 2\%$

Input

Voltage 12 to 48VDC; 24 to 240VAC/DC

Tolerance

 $\begin{array}{lll} \textbf{12 to 48VDC} & -15\% - 20\% \\ \textbf{24 to 240VAC/DC} & -20\% - 10\% \\ \textbf{AC Line Frequency/DC Ripple} & 50/60 \ \text{Hz} \ / \ \le 10\% \\ \textbf{Power Consumption} & AC \ \le 2 \ \text{VA}; \ DC \ \le 2 \ \text{W} \\ \end{array}$

Output

Type Isolated relay contacts

Form SPDT

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 $\geq 1500 \text{V RMS}$ input to output

Insulation Resistance $\geq 100 \text{ M}\Omega$

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