



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.

See Appendix B, page 165, Figure 1 for dimensional drawing.

Features:

- Choose 1 of 12 standard dual functions
- Special time ranges & functions available
- Factory programmed
- Microcontroller circuitry, ±0.5% repeat accuracy
- Isolated, 10A, SPDT output contacts
- Input voltage from 12 to 240V in 9 ranges
- Delays from 100ms - 1000h in 9 ranges

Approvals:

Auxiliary Products:

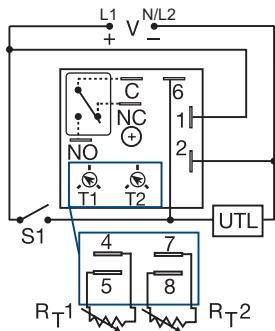
- **External adjust potentiometer:**
P/N: P1004-95
- P/N: P1004-95-X
- **Versa-knob:** P/N: P0700-7
- **Female quick connect:**
P/N: P1015-64 (AWG 14/16)
- **Quick connect to screw adaptor:**
P/N: P1015-18
- **DIN rail:** P/N: C103PM (Al)
- **DIN rail adaptor:** P/N: P1023-20

Available Models:

KRPD12121MB	KRPDA2825AMI
KRPD21551905MB	KRPDA3232MB
KRPD417M113MRXD	KRPDA3434MB
KRPDA11M14MRXE	KRPDD2121MB
KRPDA1755130SMI	KRPDD3232RXE
KRPDA2222RXE	

If desired part number is not listed, please call us to see if it is technically possible to build.

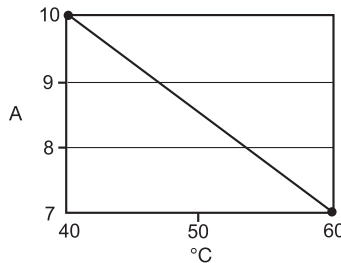
Connection:



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 R₁ terminals for external adjust. The untimed load is optional. S1 is not used for some functions.

Output Current/Ambient Temperature:



Order Table:

KRPD	X	X	X	X	X
Input	First Adjustment (T1 or R₁)	First Time Delay*	Second Adjustment (T2 or R₂)	Second Time Delay*	Function
A - 24 to 240VAC/DC	1 - Fixed	1 - 0.1 - 10s	1 - Fixed	1 - 0.1 - 10s	Specify function Functions: MB, MRE, MI, MS, IRE, BRE, SRE, RXE, RXD, IM, AMI, SL
D - 12 to 48VDC	2 - Onboard adjust	2 - 1 - 100s	2 - Onboard adjust	2 - 1 - 100s	
1 - 12VDC	3 - External adjust	3 - 10 - 1000s	3 - External adjust	3 - 10 - 1000s	
2 - 24VAC		4 - 0.1 - 10m		4 - 0.1 - 10m	
4 - 120VAC		5 - 1 - 100m		5 - 1 - 100m	
9 - 230VAC		6 - 10 - 1000m		6 - 10 - 1000m	
		7 - 0.1 - 10h		7 - 0.1 - 10h	
		8 - 1 - 100h		8 - 1 - 100h	
		9 - 10 - 1000h		9 - 10 - 1000h	

*If fixed delay is selected, insert delay (0.1-999) followed by (S) secs., or (M) mins., or (H) hrs.

For a complete list of functions with descriptions and diagrams, see Appendix A - Timer Functions, pages 156-164.

Specifications

Time Delay	Microcontroller circuitry	Rating (at 40°C)	10A resistive @ 125VAC
Type	0.1s - 1000h in 9 adjustable ranges or fixed (to 999)		5A resistive @ 230VAC & 28VDC
Range	±0.5% or 20ms, whichever is greater		1/4 hp @ 125VAC
Repeat Accuracy	≤ ±2%	Max. Switching Voltage	250VAC
Tolerance (Factory Calibration)	≤ 150ms	Life (Operations)	Mechanical - 1 x 10 ⁷ ; Electrical - 1 x 10 ⁵
Reset Time	≤ 40ms; 750 operations per minute	Protection	Encapsulated
Initiate Time	≤ ±2%	Isolation Voltage	≥ 1500V RMS input to output
Time Delay vs Temp. & Voltage		Insulation Resistance	≥ 100 MΩ
Input		Polarity	DC units are reverse polarity protected
Voltage	12 to 48VDC; 24 to 240VAC/DC	Mechanical	
Tolerance	12 to 48VDC: -15% - 20%	Mounting	Surface mount with one #10 (M5 x 0.8) screw
	24 to 240VAC/DC: -20% - 10%	Dimensions	2 x 2 x 1.21 in. (50.8 x 50.8 x 30.7 mm)
AC Line Frequency / DC Ripple	50/60 Hz / ≤ 10%	Termination	0.25 in. (6.35 mm) male quick connects
Power Consumption	AC ≤ 2VA; DC ≤ 2W	Environmental	
Output		Operating / Storage Temperature	-40° to 60°C / -40° to 85°C
Type	Isolated relay contacts	Humidity	95% relative, non-condensing
Form	SPDT	Weight	≈ 2.6 oz (74 g)