



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 2 ranges
- Delays from 100ms - 1000h in 9 ranges

Approvals:   

Auxiliary Products:

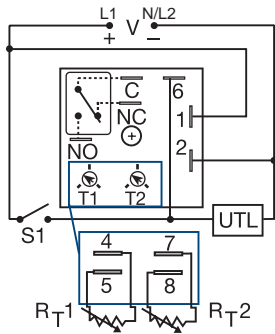
- **Externalad just potentiometer:**
P/N: P1004-95
P/N: P1004-95-X
- **Versa-knob:** P/N: P0700-7
- **Female quick connect:**
P/N: P1015-64 (AWG 14/16)
- **Quick connect to screw adaptor:**
P/N: P1015-18
- **DIN rail:** P/N: C103PM (AI)
- **DIN rail adaptor:** P/N: P1023-20

Available Models:

KRPD12121MB	KRPDA2825AMI
KRPD2155190SMB	KRPDA3232MB
KRPD417M113MRXD	KRPDA3434MB
KRPDA11M14MRXE	KRPDD2121MB
KRPDA175S130SMI	KRPDD3232RXE
KRPDA2222RXE	

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

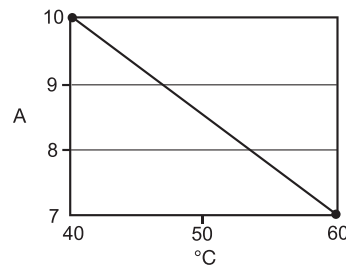
Connection:



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 R_T 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	X
	Input	First Adjustment (T1 or R_{T1})	First Time Delay*	Second Adjustment (T2 or R_{T2})	Second Time Delay*	Function
	A - 24 to 240VAC/DC	1 - Fixed	1 - 0.1 - 10s	1 - Fixed	1 - 0.1 - 10s	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	.....		5A resistive @ 230VAC & 28VDC
Range	..... 0.1s - 1000h in 9 adjustable ranges or fixed (to 999)		1/4 hp @ 125VAC
Repeat Accuracy	..... ±0.5% or 20ms, whichever is greater	Max. Switching Voltage	..... 250VAC
Tolerance (Factory Calibration)	..... ≤ ±2%	Life (Operations)	..... Mechanical - 1 × 10 ⁷ ; Electrical - 1 × 10 ⁵
Reset Time	..... ≤ 150ms	Protection	
Initiate Time	..... ≤ 40ms; 750 operations per minute	Circuitry	..... Encapsulated
Time Delay vs Temp. & Voltage	..... ≤ ±2%	Isolation Voltage	..... ≥ 1500V RMS input to output
Input		Insulation Resistance	..... ≥ 100 MΩ
Voltage	..... 12 to 48VDC; 24 to 240VAC/DC	Polarity	..... DC units are reverse polarity protected
Tolerance	..... 12 to 48VDC: -15% - 20%	Mechanical	
	..... 24 to 240VAC/DC: -20% - 10%	Mounting	..... Surface mount with one #10 (M5 x 0.8) screw
AC Line Frequency / DC Ripple	..... 50/60 Hz / ≤ 10%	Dimensions	..... 2 x 2 x 1.21 in. (50.8 x 50.8 x 30.7 mm)
Power Consumption	..... AC ≤ 2VA; DC ≤ 2W	Termination	..... 0.25 in. (6.35 mm) male quick connects
Output		Environmental	
Type	..... Isolated relay contacts	Operating / Storage Temperature	..... -40° to 60°C / -40° to 85°C
Form	..... SPDT	Humidity	..... 95% relative, non-condensing
		Weight	..... ≅ 2.6 oz (74 g)