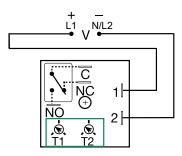


 $C \in \mathbb{R}^{\infty}$

KRDR SERIES



Wiring Diagram



V = Voltage C = Common NO = Normally Open NC = Normally Closed T1 = OFF Time T2 = ON Time

A knob is supplied for adjustable units.

Ordering Information

MODEL	INPUT VOLT.	ADJUST.	T2 ON TIME	FIRST DELAY	T1 OFF TIME
KRDR115MB25M	12VDC	Fixed	5m	Off time	25m
KRDR120A0	12VDC	Adjustable	0.1 - 10s	On time	0.1 - 10s
KRDR121A1	12VDC	Adjustable	1 - 100s	On time	1 - 100s
KRDR320B0	24VDC	Adjustable	0.1 - 10s	Off time	0.1 - 10s
KRDR321A4	24VDC	Adjustable	1 - 100s	On time	1 - 100m
KRDR321B4	24VDC	Adjustable	1 - 100s	Off time	1 - 100m
KRDR420A3	120VAC	Adjustable	0.1 - 10s	On time	0.1 - 10m
KRDR421A4	120VAC	Adjustable	1 - 100s	On time	1 - 100m
KRDR424A0	120VAC	Adjustable	1 - 100m	On time	0.1 - 10s
KRDR424A4	120VAC	Adjustable	1 - 100m	On time	1 - 100m
KRDR440.5SA0	120VAC	On time fixed	0.5s	On time	0.1 - 10s

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

Description

The KRDR Series is a compact time-delay relay measuring only 2 in. (50.8 mm) square. Its solid-state timing circuit provides excellent repeat accuracy and stability. Encapsulation protects against shock, vibration, and humidity. The KRDR Series is a cost effective recycling timer for OEM applications that require small size, isolation, reliability, and long life.

Operation (Recycling - ON Time First)

Upon application of input voltage, the output relay energizes and the T2 ON time begins. At the end of the ON time, the output de-energizes and the T1 OFF time begins. At the end of the OFF time, the output relay energizes and the cycle repeats as long as input voltage is applied

Reset: Removing input voltage resets the output and the time delays, and returns the sequence to the ON time.

Operation (Recycling - OFF Time First)

Upon application of input voltage, the T1 OFF time begins. At the end of the OFF time, the T2 ON time begins and the load energizes. At the end of the ON time the load de-energizes, and the cycle repeats until input voltage is removed.

Reset: Removing input voltage resets the output and the sequence to the OFF time.

Features & Benefits

FEATURES	BENEFITS		
Compact design and independent adjustment of ON and OFF times	Provides greater flexibility for OEM applications and reduces component and labor costs		
Microcontroller based	Repeat Accuracy + / - 0.5%, Factory calibration + / - 5%		
Isolated, 10A, SPDT output contacts	Allows control of loads for AC or DC voltages		
Encapsulated	Protects against shock, vibration, and humidity		

P1023-6 Mounting bracket

Accessories

, i



P1015-13 (AWG 10/12), P1015-64 (AWG 14/16) Female Quick Connect

The 90° orientation of mounting slots makes installation/removal of modules quick and easy.

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 guick





connect terminals. C103PM (AL) DIN Rail

35 mm aluminum DIN rail available in a 36 in. (91.4 cm) length.



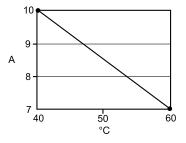
P1023-20 DIN Rail Adapter

Allows module to be mounted on a 35 mm DIN type rail with two #10 screws.

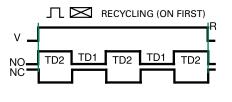
KRDR SERIES

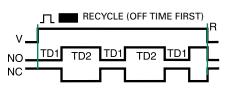


Output Current/Ambient Temperature



Function Diagrams





V = Voltage NO = Normally Open Contact NC = Normally Closed Contact T1 = OFF Time T2 = ON Time R = Reset

Specifications

Time Delay Range **Repeat Accuracy** Tolerance (Factory Calibration) **Reset Time** Time Delay vs Temp. & Voltage Input Voltage Tolerance 12VDC & 24VDC/AC 110VDC & 120 or 230VAC AC Line Frequency/DC Ripple **Power Consumption** Output Type Form Rating (at 40°C)

Max. Switching Voltage Life (Operations) Protection Circuitry Isolation Voltage Insulation Resistance Polarity Mechanical Mounting Dimensions

Termination

Environmental

Operating/Storage Temperature Humidity Weight 0.1s - 1000m in 6 adjustable ranges or fixed ±0.5 % or 20ms, whichever is greater

≤ ±5% ≤ 150ms ≤ ±5%

12, 24 or 110VDC; 24, 120 or 230VAC

-15% - 20% -20% - 10% 50/60 Hz / ≤ 10% AC ≤ 2VA; DC ≤ 2W

Isolated relay contacts SPDT 10A resistive @ 125VAC; 5A resistive @ 230VAC & 28VDC; 1/4 hp @ 125VAC 250VAC Mechanical - 1 x 10⁷; Electrical - 1 x 10⁵

 $\begin{array}{l} \mbox{Encapsulated} \\ \geq 1500V \mbox{ RMS input to output} \\ \geq 100 \mbox{ } M\Omega \\ \mbox{DC units are reverse polarity protected} \end{array}$

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 connect terminals

-20° to 60°C / -40° to 85°C 95% relative, non-condensing ≅ 2.6 oz (74 g)

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Littelfuse:

KRDR424A0 KRDR320B0 KRDR420A3 KRDR115MB25M KRDR321B4 KRDR440.5SA0 KRDR421A4 KRDR120A0 KRDR121A1 KRDR424A4 KRDR321A4