

Recycling (Pulse Generator) KRDR Digi-Timer Time Delay Relay



- Compact
- Full range of timing
- Onboard timer
- Delays from 0.2 s to 500 m
- Input Voltage from 12 ... 120 V

Obsolete Specification
Redesigned product is available
see new specifications at:
www.sasac.com/standard/standard.htm

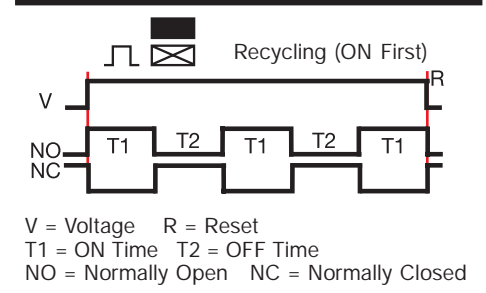
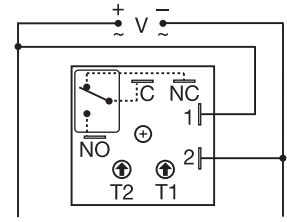
Description

The KRDR Series is a compact time delay relay measuring only 2 in. (50.8 mm) square. Its solid state digital 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

Upon application of input voltage, the output relay is energized and the ON time begins. At the end of the ON time, the output de-energizes and the OFF time begins. At the end of the OFF time, the output relay is energized and the cycle repeats as long as input voltage is applied. The OFF time may be the first delay in some recycling timers.

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



Ordering Table

KRDR Series	X Input	X Adjustments	X ON Time *	X Operating Sequence	X OFF Time *
	-1 - 12 V DC	-1 - Both Times Fixed	-0 - 0.2 ... 10 s	-A - ON Time First	-0 - 0.2 ... 10 s
	-2 - 24 V AC	-2 - Both Times Adj.	-1 - 1 ... 100 s	-B - OFF Time First	-1 - 1 ... 100 s
	-3 - 24 V DC	-3 - ON Time Adj. OFF Time Fixed	-2 - 10 ... 1000 s		-2 - 10 ... 1000 s
	-4 - 120 V AC	-4 - ON Time Fixed, OFF Time Adj.	-3 - 0.1 ... 10 m		-3 - 0.1 ... 10 m
	-5 - 110 V DC		-4 - 1 ... 100 m		-4 - 1 ... 100 m
			-5 - 5 ... 500 m		-5 - 5 ... 500 m

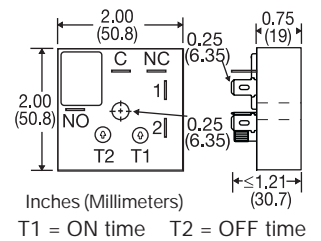
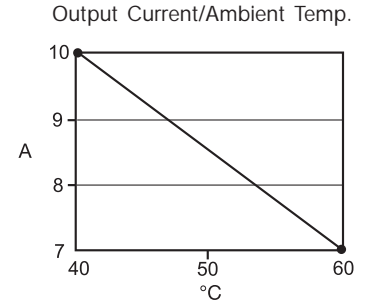
Example P/N: KRDR421A1 Fixed - KRDR431B3M

Note: Range 5 cannot be combined with Range 0.

* If Fixed Delay is selected, insert delay [0.2 ... 1000] followed by (S) sec. or [0.1 ... 500] (M) min.

Technical Data

Time Delay	
Type	Digital integrated circuitry
Range	0.2 s ... 500 m in 6 adjustable ranges or fixed
Repeat Accuracy	+/-0.5 %
Tolerance (Factory Calibration)	≤ +/-10%
Recycle Time	≤ 250 ms
Time Delay vs. Temperature & Voltage	≤ +/-5%
Input	
Voltage	12, 24 or 110 V DC; 24 or 120 V AC
Tolerance	12 V DC & 24 V DC/AC: -15% ... +20% 110 V DC & 120 V AC: -20% ... +10%
Line Frequency	50 ... 60 Hz
Power Consumption	12, 24 V DC: ≤ 0.65 W; 110 V DC: ≤ 2 W
Output	
Type	Isolated relay contacts
Form	Single pole double throw (SPDT)
Rating (at 40°C)	10 A resistive at 125 V AC 5 A resistive at 30 V DC; 1/4 hp at 125 V AC
Life	Mechanical -- 1 x 10 ⁷ Electrical -- 1 x 10 ⁵ for 10 A at 120 V AC
Protection	
Circuitry	Encapsulated
Isolation Voltage	≥ 1500 V RMS input to output
Insulation Resistance	≥ 100 MΩ
Polarity	DC units are reverse polarity protected
Mechanical	
Mounting	Surface mount with one #10 (M5 x 0.8) screw
Package	2 x 2 x 1.21 in. (50.8 x 50.8 x 30.7 mm)
Termination	0.25 in. (6.35 mm) male quick connect terminals
Environmental	
Operating Temperature	-20°C ... +60°C
Storage Temperature	-40°C ... +85°C
Humidity	95% relative, non-condensing
Weight	≅ 2.4 oz (68 g)



Accessories



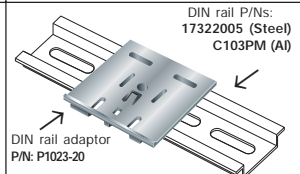
P/N: P1015-64 (AWG 14/16)



P/N: P1015-18



P/N: P1023-6



See accessory pages at the end of this section.