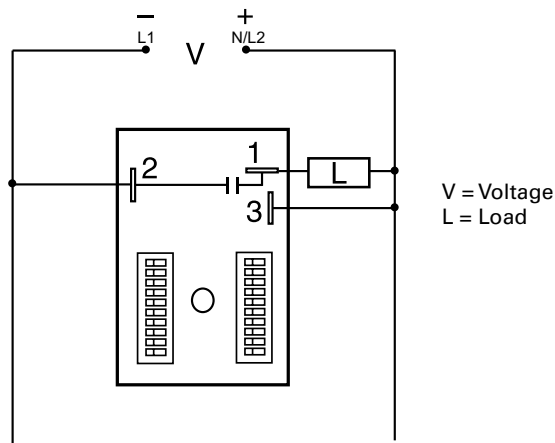


RS SERIES



Wiring Diagram



Description

The RS Series is a solid-state, encapsulated, recycling timer designed for tough industrial environments. It is used by many testing labs as a life cycle tester; by others as a cycle controller. The RS Series has separate DIP switch adjustments for the on delay and the off delay. These make accurate adjustment possible the first time, every time. Time delays of 0.1 seconds to 1023 hours are available in 4 ranges.

Operation (Recycling - ON Time First)

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

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

Operation (Recycling - OFF Time First)

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

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

Features & Benefits

FEATURES	BENEFITS
Microcontroller based	Repeat Accuracy + / - 0.1%, Setting accuracy + / - 2%
1A steady, 10A inrush solid-state output	Provides 100 million operations in typical conditions
Totally solid state and encapsulated	No moving parts to arc and wear out over time and encapsulated to protect against shock, vibration, and humidity
ON and OFF time delay settings	Independent adjustment provides greater timing flexibility
DIP switch adjustment	Provides first time setting accuracy

Ordering Information

MODEL	INPUT VOLTAGE	FIRST DELAY	T1 ON TIME	T2 OFF TIME
RS6A13	230VAC	On time	0.1 - 102.3s in 0.1s increments	1 - 1023m in 1m increments

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

RS SERIES

Accessories



P1023-6 Mounting bracket

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



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.



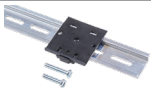
P1015-18 Quick Connect to Screw Adapter

Screw adapter terminal designed for use with all modules with 0.25 in. (6.35 mm) male quick connect terminals.



C103PM (AL) DIN Rail

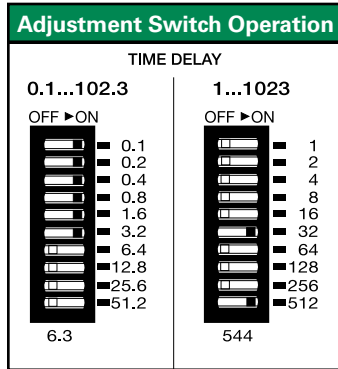
35 mm aluminum DIN rail available in a 36 in. (91.4 cm) length.



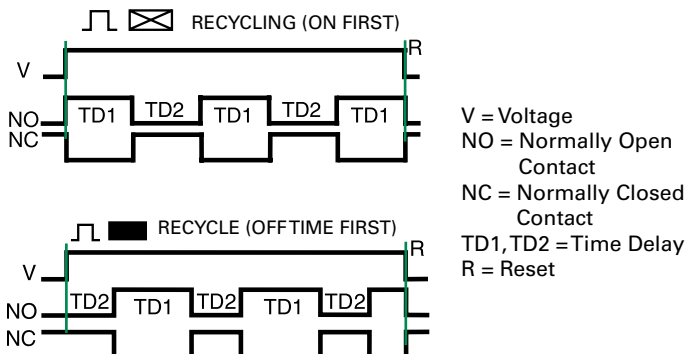
P1023-20 DIN Rail Adapter

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

Adjustment Switch Operation



Function Diagrams



Specifications

Time Delay Range*

0.1 - 102.3s in 0.1s increments
0.1 - 102.3m in 0.1m increments
1 - 1023m in 1m increments
1 - 1023h in 1h increments

Repeat Accuracy

Setting Accuracy

Reset Time

Time Delay vs Temp. & Voltage

±0.1% or 20ms, whichever is greater
≤ ±2% or 20ms, whichever is greater
≤ 150ms

≤ ± 2%

Input

Voltage

Tolerance

AC Line Frequency/DC Ripple

Power Consumption

12, or 24VDC; 24, 120, or 230VAC
±20%

50/60 Hz / ≤ ±10%

AC ≤ 2VA; DC ≤ 1W

Output

Type

Maximum Load Current

OFF State Leakage Current

Voltage Drop

Solid state

1A steady state, 10A inrush at 60°C

AC ≅ 5mA @ 230VAC; DC ≅ 1mA

AC ≅ 2.5V @ 1A; DC ≅ 1V @ 1A

Protection

Circuitry

Dielectric Breakdown

Insulation Resistance

Polarity

Mechanical

Mounting

Dimensions

Encapsulated

≥ 2000V RMS terminals to mounting surface

≥ 100 MΩ

DC units are reverse polarity protected

Surface mount with one #10 (M5 x 0.8) screw

H 76.7 mm (3"); **W** 50.8 mm (2");

D 38.1 mm (1.5")

0.25 in. (6.35 mm) male quick connect terminals

Termination

Environmental

Operating/Storage

Temperature

Humidity

Weight

-40° to 75°C / -40° to 85°C

95% relative, non-condensing

≅ 3.9 oz (111 g)

*For CE approved applications, power must be removed from the unit when a switch position is changed.