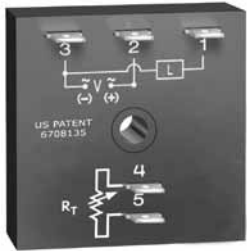


Recycling (Flasher) TSD3 Digi-Timer Timing Module

5



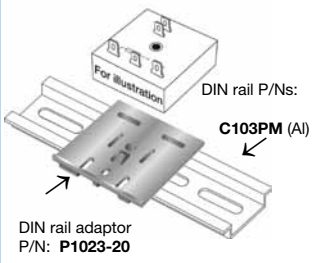
10
YEAR
WARRANTY

- Fixed or Adjustable Delays From 0.1 s... 100 h
- Equal ON and OFF Delays
- +/-0.1% Repeat Accuracy
- +/-1% Factory Calibration
- 24, 120, or 230 V AC
- 1A Solid State Output
- Encapsulated

Approvals:

Accessories

- External adjust potentiometer
P/Ns:
P1004-95 (fig A)
P1004-95-X (fig B)
- Mounting bracket
P/N: P1023-6
- Female quick connect
P/N:
P1015-64 (AWG 14/16)
- Quick connect to screw adaptor
P/N: P1015-18
- Versa-knob
P/N: P0700-7



See accessory pages for specifications.

Description

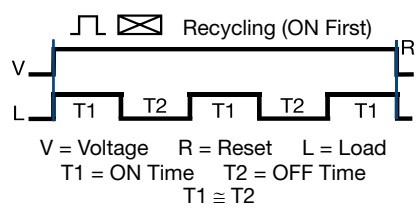
The TSD3 is a solid state ON/OFF recycling timer with the ON time always equal to the OFF time. When time delay is changed by the RT, both the ON and the OFF periods are changed. The TSD Series is designed for more demanding commercial and industrial applications where small size, and accurate performance is required. The factory calibration for fixed time delays is within 1% of the target time delay. The repeat accuracy, under stable conditions, is 0.1% of the time delay. The TSD Series is rated to operate over an extended temperature range. Time delays of 0.1 seconds to 100 hours are available. The output is rated 1 A steady and 10 A inrush. The modules are totally solid state and encapsulated to protect the electronic circuitry.

Operation

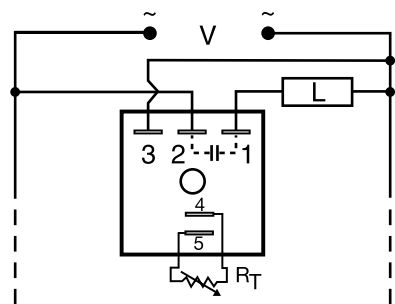
Upon application of input voltage, the output energizes and the T1, ON time begins. At the end of the ON time, the output de-energizes and the T2, OFF time begins. At the end of the OFF time, the output energizes and the cycle repeats as long as input voltage is applied.

Reset: Removing input voltage resets the output and time delays, and returns the sequence to the T1, ON time.

Function



Connection



RT is used when external adjustment is ordered.
Dashed lines are internal connections.

Available Models-

TSD3411S	TSD34150S	TSD3421
TSD3610.5S	TSD36130M	

Don't see what you need? Call us for a minimum quantity and price quote!

Ordering Table

TSD3 Series	X Input	X Adjustment	X Time Delay *
	-2 - 24 V AC	-1 - Fixed	-0 - 0.1 ... 10 s
	-4 - 120 V AC	-2 - External Adjust	-1 - 1 ... 100 s
	-6 - 230 V AC	-3 - Onboard Adjust	-2 - 10 ... 1000 s
			-3 - 0.1 ... 10 m
			-4 - 1 ... 100 m
			-5 - 10 ... 1000 m
			-6 - 1 ... 100 h

Example P/N: TSD3421 Fixed – TSD3410.5S

*If Fixed Delay is selected, insert delay [0.1...1000] followed by (S) sec. or (M) min., or [0.1 ... 100] (H) hours.

Recycling (Flasher) TSD3 Digi-Timer Timing Module

Dedicated
timers

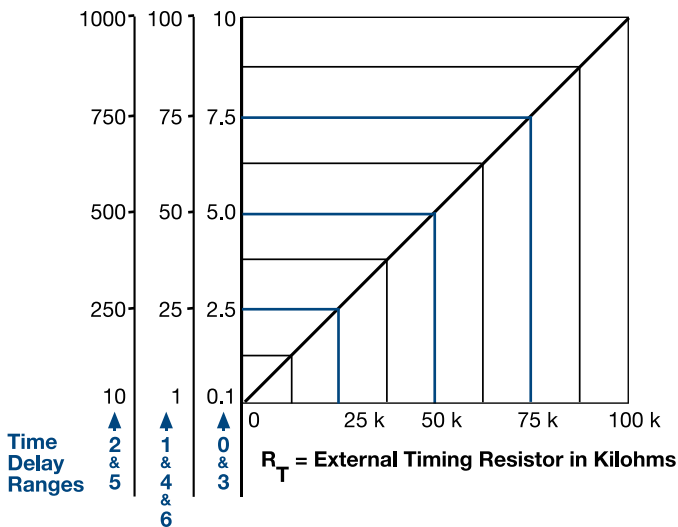
Technical Data

Time Delay	
Range	0.1 s ... 100 h in 7 adjustable ranges or fixed
Repeat Accuracy	+/-0.1% or 20 ms, whichever is greater
Tolerance (Factory Calibration)	≤ +/-1%
Reset Time	≤ 150 ms
Time Delay vs. Temperature & Voltage	≤ +/-1%
Input	
Voltage	24, 120, or 230 V AC
Tolerance	+/-20%
Line Frequency	50 ... 60 Hz
Power Consumption	≤ 2 VA
Output	
Type	Solid state
Maximum Load Current	1 A steady state, 10 A inrush at 60°C
Off State Leakage Current	≅ 5 mA at 230 V AC
Voltage Drop	≅ 2.5 V at 1 A
Protection	
Circuitry	Encapsulated
Dielectric Breakdown	≥ 2000 V RMS terminals to mounting surface
Insulation Resistance	≥ 100 MΩ
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	-40°C ... +75°C
Storage Temperature	-40°C ... +85°C
Humidity	95% relative, non-condensing
Weight	≅ 2.4 oz (68 g)

5

External Resistance vs Time Delay

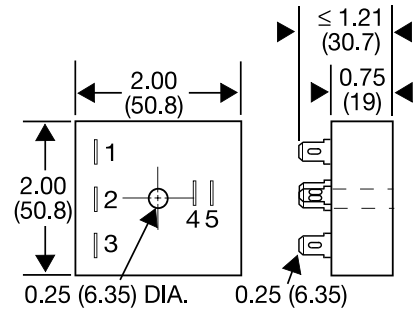
In Secs., Mins., or Hours



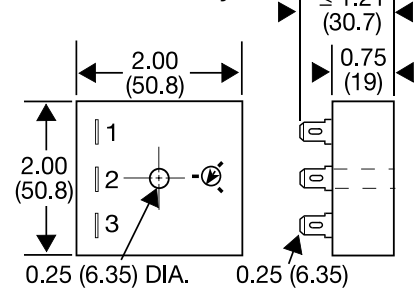
This chart applies to externally adjustable part numbers. The time delay is adjustable over the time delay range selected by varying the resistance across the R_T terminals; as the resistance increases the time delay increases. When selecting an external R_T , add the tolerances of the timer and the R_T for the full time range adjustment.
Examples: 1 to 50 S adjustable time delay, select time delay range 1 and a 50 K ohm R_T . For 1 to 100 S use a 100 K ohm R_T .

Mechanical View

Fixed & External Adjust



Onboard Adjust



Inches (Millimeters)