

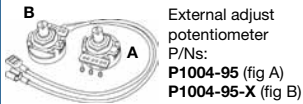
Interval TSD2 Digi-Timer Timing Module



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

Approvals:

Accessories



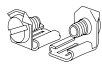
External adjust potentiometer
P/Ns:
P1004-95 (fig A)
P1004-95-X (fig B)



Mounting bracket
P/N: P1023-6



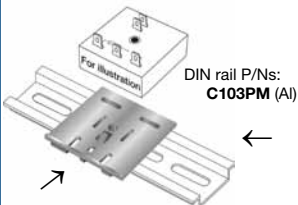
Female quick connect
P/N:
P1015-64 (AWG 14/16)



Quick connect to screw adaptor
P/N: P1015-18



Versa-knob
P/N: P0700-7



DIN rail P/Ns:
C103PM (Al)

DIN rail adaptor
P/N: P1023-20

See accessory pages for specifications.

Description

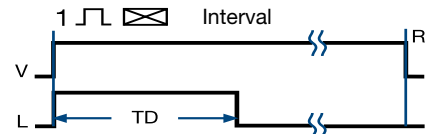
The TSD Series is designed for more demanding commercial and industrial applications where small size, and accurate performance is required. The factory calibration for fixed time delays is within 1% of the target time delay. The repeat accuracy, under stable conditions, is 0.1% of the time delay. The 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 time delay begins. The output is energized during the time delay. At the end of the time delay, the output de-energizes and remains de-energized until input voltage is removed.

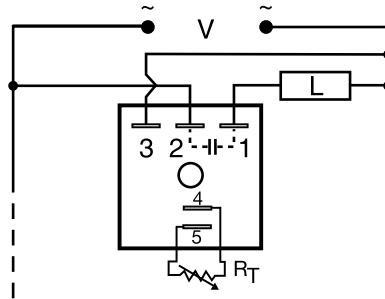
Reset: Removing input voltage resets the time delay and the output.

Function



V = Voltage L = Load R = Reset
TD = Time Delay — = Undefined time

Connection



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

Available Models-

TSD2221
TSD241600S
TSD2633

TSD2411S
TSD2425

TSD24145S
TSD2434

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

Ordering Table

TSD2 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

*If Fixed Delay is selected, insert delay [0.1 ... 1000] followed by (S) secs. or (M) mins. or [1 ... 100] (H) hours

Example P/N: TSD2421 Fixed - TSD2410.1S

Interval TSD2 Digi-Timer Timing Module

Dedicated
timers

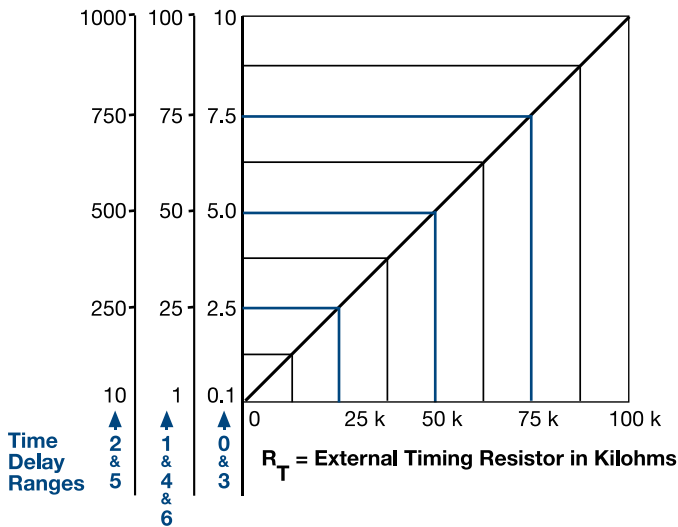
Technical Data

Time Delay Range Repeat Accuracy Tolerance (Factory Calibration) Reset Time Time Delay vs. Temperature & Voltage Input Voltage Tolerance Line Frequency Power Consumption Output Type Form Maximum Load Current Off State Leakage Current Voltage Drop Protection Circuitry Dielectric Breakdown Insulation Resistance Mechanical Mounting Package Termination Environmental Operating Temperature Storage Temperature Humidity Weight	0.1 s ... 100 h in 7 adjustable ranges or fixed +/-0.1% or 20 ms, whichever is greater ≤ +/-1% ≤ 150 ms ≤ +/-1% 24, 120, or 230 V AC +/-20% 50 ... 60 Hz ≤ 2 VA Solid state Normally Open, closed during timing 1 A steady state, 10 A inrush at 60°C ≅ 5 mA at 230 V AC ≅ 2.5 V at 1 A Encapsulated ≥ 2000 V RMS terminals to mounting surface ≥ 100 MΩ Surface mount with one #10 (M5 x 0.8) screw 2 x 2 x 1.21 in. (50.8 x 50.8 x 30.7 mm) 0.25 in. (6.35 mm) male quick connect terminals -40°C ... +75°C -40°C ... +85°C 95% relative, non-condensing ≅ 2.4 oz (68 g)
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External Resistance vs Time Delay

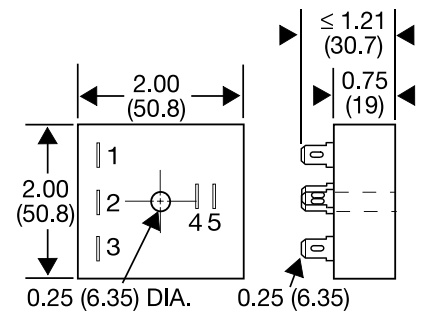
In Secs., Mins., or Hours



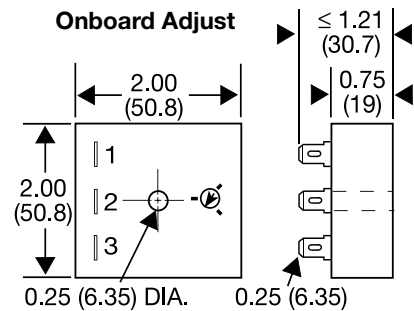
This chart applies to externally adjustable part numbers.
 The time delay is adjustable over the time delay range selected by varying the resistance across the R_T terminals; as the resistance increases the time delay increases.
 When selecting an external R_T , add the tolerances of the timer and the 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)

TSD2Gen 09:10