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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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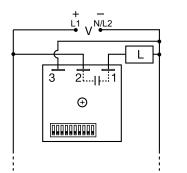


TDUI / TDUIH / TDUIL SERIES





Wiring Diagram



V = Voltage L = Load

Description

The TDUI Series combines digital timing circuitry with universal voltage operation. Voltages of 24 to 240VAC and 12 to 24VDC are available in three ranges. The TDUI Series offers DIP switch selectable time delays ranging from 0.1 seconds to 102.3 minutes in three ranges. Its 1A rated output, ability to operate on multiple voltages, and wide range of switch selectable time delays make the TDUI Series an excellent choice for process control systems and OEM equipment.

Operation (Interval)

Upon application of input voltage, the time delay begins. The output energizes 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.

Features & Benefits

FEATURES	BENEFITS	
Microcontroller based	Repeat Accuracy + / - 0.5%, Setting accuracy + / - 2%	
Compact design	Allows flexiblility for OEM applications	
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	
Wide voltage ranges	Flexibility to handle multiple voltages found in control systems and OEM applications	
DIP switch Adjustment	t Provides first time setting accuracy	

Accessories



P1015-13 (AWG 10/12), P1015-64 (AWG 14/16), P1015-14 (AWG 18/22) 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.

Ordering Information

	MODEL	INPUT VOLTAGE	TIME DELAY
	TDUI3000A	24 to 120VAC	1 - 1023s
	TDUIH3002A	12 to 24VDC	0.1 - 102.3m
	TDUIL3001A	100 to 240VAC	0.1 - 102.3s
	TDUIL3002A	12 to 24VDC	0.1 - 102.3s

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

TDUI / TDUIH / TDUIL SERIES



Specifications

Time Delay Range*

Repeat Accuracy Setting Accuracy **Reset Time** Time Delay vs Temp. & Voltage Input Voltage AC Line Frequency **Power Consumption DC Ripple** Output Туре

Form Rating Voltage Drop **OFF State Leakage Current** Protection Circuitry **Dielectric Breakdown** Insulation Resistance Polarity Mechanical Mounting Dimensions

Termination

Environmental Operating/Storage Temperature Humidity Weight

0.1 - 102.3s in 0.1s increments 1 - 1023s in 1s increments 0.1 - 102.3m in 0.1m increments ±0.5% or 20ms, whichever is greater $\leq \pm 2\%$ or 20ms, whichever is greater ≤ 150ms $\leq \pm 5\%$

24 to 240VAC, 12 to 24VDC ±20% 50/60 Hz $AC \le 2VA; DC \le 1W$ ≤ 10%

Solid state NO, closed during timing 1A steady state, 10A inrush at 60°C AC ≈ 2.5V @ 1A; DC ≈ 1V @ 1A AC ≈ 5mA @ 230VAC; DC ≈ 1mA

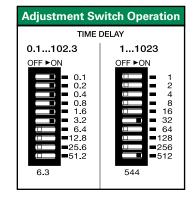
Encapsulated \geq 2000V RMS terminals to mounting surface ≥ 100 MΩ DC units are reverse polarity protected

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

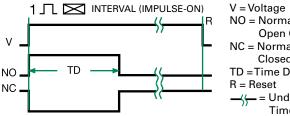
-40° to 60°C / -40° to 85°C 95% relative, non-condensing ≅ 2.4 oz (68 g)

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

Switch Operation



Function Diagram



NO = Normally**Open Contact** NC = Normally Closed Contact TD = Time Delay = Undefined Time