

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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









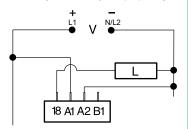
DSQU / DSTU SERIES



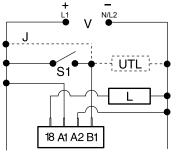


Wiring & Adjustment Diagrams

DELAY-ON-MAKE & RECYCLING



SINGLE SHOT, INTERVAL & DELAY-ON-BREAK



V = Voltage L = Load J= Wire Required for Interval Operation S1= Initiate Switch UTL = Optional Untimed Load

ADJUSTMENTS

DOM	A I □ B I □	
SS	A□II BII□	
R	A□II B□II	
DOB	A I □ B□I	

DOM = Delay-on-Make SS = Single Shot/Interval R = Recycling DOB = Delay-on-Break

R	М	S	- 1
0.1-6.3s	X0.1s	C I E D I F	0.1s
1-63s	X1s	C III E D III F	1s
10-630s	X10s	C III E	10s
1-63m	X1m	E F C D	1m

R = Range M = Multiplier S = Setting

I = Increments of time

→ ON				
	1			
	2			
	4			
	8			
	16			
	32			

Add switches in ON position TD = 2+8+16=26

Description

The DSQU and DSTU Series of 17.5 mm, switch adjustable, universal solid-state timers offer multiple functions, voltages, and time delay ranges. Choose one of 5 functions and 4 time delay ranges via 4 selection switches located on face of the unit. Six switches adjust the time delay through the selected range.

The DSQU Series has quick connect terminals and the DSTU Series has terminal blocks.

Features & Benefits

FEATURES	BENEFITS	
Universal AC or DC voltage	Choose from 24 to 240VAC or 9 to 110VDC models	
Compact 17.5mm size	Allows for high rail density	
Microcontroller based	Repeat Accuracy + / -1%	
Multifunction: 5 timing functions	Reduce stocking requirements	
Knob Adjustable Time Delay	Field adjustable delay ranging from 0.1s - 100m	
0.7A steady, 10A inrush solid-state output	Provides 100 million operations in typical conditions.	
Mounting fasteners included	Each unit ships with both surface and DIN rail quick mount adapters	
Watchdog circuitry	Self monitoring and self correcting for improved performance	

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.



P0500-178 Surface Mount Adapter P0500-179 DIN Rail Mount Adapter For use with the ASxx/DSxx Series timers.

Ordering Information

MODEL	INPUT VOLTAGE	CONNECTION
DSQUA3	24 - 240VAC	Quick Connects
DSQUD3	9 - 110VDC	Quick Connects
DSTUA3	24 - 240VAC	Terminal Blocks
DSTUD3	9 - 110VDC	Terminal Blocks

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



DSQU / DSTU SERIES

Specifications

Time Delay

Type Microcontroller based with ceramic resonator

and watchdog circuitry

Adjustment 6 switches adjust the time delay; 2 switches select 1 of 4 multipliers

Range* x0.1s = 0.1 - 6.3s in 0.1s increments

x1s = 1 - 63s in 1s increments x10s = 10 - 630s in 10s increments x1m = 1 - 63m in 1m increments

Repeat Accuracy $\pm 0.1\%$ or ± 20 ms, whichever is greaterSetting Accuracy $\pm 2\%$ or ± 50 ms, whichever is greater

Reset Time ≤ 300ms

 $\label{eq:single Shot & Delay-on-Break: \leq 32ms$} \ \ \,$

Time Delay vs Temp.

& Voltage $\pm 2\%$ or ± 50 ms, whichever is greater

Input

Voltage AC: 24 to 240VAC; -20% - 10%

DC: 9 to 110VDC; -0% - 20% @ -25°C 9.4 to 110VDC; -0% - 20% @ -40°C

AC Line Frequency/DC Ripple 50/60Hz $/ \le 10\%$

Output

Type Solid state Form NO

Rating 0.7A steady state, 10A inrush **Voltage Drop** $AC \cong 2.5V @ 0.7A$; $DC \cong 1.5V @ 0.7A$

Protection

Surge IEEE C62.41-1991 Level A

Circuitry Encapsulated

Dielectric Breakdown≥ 2000V RMS terminals to mounting surfacePolarityDC units are reverse polarity protected

Mechanical

Mounting Two base adaptors are available

DIN Rail Snap on to 32 mm DIN 1 & 35 mm DIN 3 rail Surface Two #6 (M3.5 x 0.6) screws or quick

mount fasteners

Dimensions H 76.2 mm (3.0"); **W** 17.52 mm (0.69");

D 61.2 mm (2.41")

Termination

DSQU 0.25 in. (6.35 mm) male quick connect

terminals

DSTU 0.197 in. (5 mm) push-on terminal blocks for up

to #14 AWG (2.5 mm2) wire

Environmental

Operating/Storage

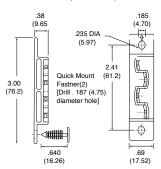
Temperature -40° to 60°C / -40° to 85°C Humidity 95% relative, non-condensing

Weight $\approx 4.2 \text{ oz } (119 \text{ g})$

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

Mounting Diagrams

P0500-178 SURFACE MOUNT Inches (Millimeters)



P0500-179 DIN RAIL MOUNT Inches (Millimeters)

