

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









Timing Functions

See the following page for a complete description of timing functions.

Timing Specifications

Timing Ranges: 0.1 to 99.9 / 1 to 999 sec.;

0.1 to 99.9 / 1 to 999 min.;

0.1 to 99.9 / 1 to 999 / 10 to 9,990 hr.

Timing Adjustment: Digital adjustment via thumbwheel switches.

Tolerance: $\pm 0.05\% \pm 0.04 \text{ sec.}^3$

Repeatability (Including first cycle of operation.): $< \pm 0.05\% \pm 0.04 \text{ sec.}^*$

Reset Time (power interruption): 45 ms, typ.; 60 ms, max.

Minimum Pulse Width, Control: 50 ms.

* Timing is synchronized with input voltage frequency. Accuracy is dependent on input voltage frequency. Tolerance shows maximum variation from utility companies.

Contact Data @25°C

Arrangement: 2 Form C (DPDT).

Material: Silver-cadmium oxide alloy.

Rating: 10A @30VDC or 277VAC, resistive;
1/2 HP @250VAC; 13 HP @120VAC.

Expected Mechanical Life: 10 million operations.

Expected Electrical Life: 100,000 operations, min., at rated load.

CNM 5 series

Multifunction Time Delay Relay For Plug-In or Panel Mounting

- · Five timing functions selectable via rotary switch
- 0.1 sec. to 9,990 hr. timing range
- Fixed input type (120VAC ± 15%)
- 10A output relay with DPDT contacts
- 1/16 DIN style enclosure with 11-pin plug-in base
- Thumbwheel switches for programming delay time

™ File E22575

File LR15734

Users should thoroughly review the technical data before selecting a product part number. It is recommended that user also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

Initial Dielectric Strength

Between Output Poles: 1,500V rms, 60 Hz. Between Input and Output: 1,500V rms, 60Hz.

Input Data @25°C

Voltage: 120VAC ±15%, 60 Hz. Power Requirement: 3VA @120VAC. Transient Protection: 13 Joule MOV.

Input Voltage & Limits

Nominal	Minimum	Maximum
Voltage	Voltage	Voltage
120VAC	102VAC	138VAC

Environmental Data

Temperature Range: Storage: -40°C to +85°C.

Operating: -10°C to +55°C.

Humidity: 85% relative humidity, non-condensing.

Mechanical Data

Termination: 11-pin octal style plug.

Enclosure: Black plastic 1/16 DIN (48mm x 48mm) case.

Sockets: Fits either 27E123 or 27E892 (snap-on) screw terminal sockets.

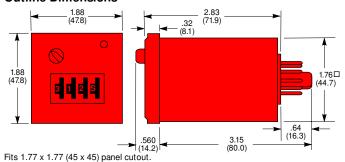
Weight: 4.3 oz. (122g) approximate.

Ordering Information - Authorized distributors are more likely to stock boldface items listed below.

Time Delay Relay

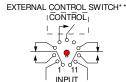
Time Delay Helay		
Input Voltage	Part Number	
120VAC	CNM5	

Outline Dimensions



Wiring Diagrams (Bottom Views)

(pins numbered clockwise from keyway)





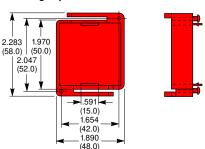
^{*} Important: A dry circuit switch is recommended. A "dry circuit" switch is one rated to reliably switch currents of less than 50mA. Use of a switch rated for other than dry circuit may result in failure of the time delay relay to function properly.

Accessory

Part Number	Name	Description
SSA-24C667	Mounting Clip	Ratchet-fit clip slides onto CNM5 from behind to secure CNM5 in panel mount applications.

Mounting Clip Dimensions

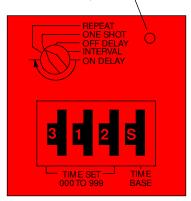
SSA-24C667 Mounting Clip



Optional Solid State Input Interface

Timer Function Descriptions

LED to show time status. See functional explanation for details.



Time Base:

.1 S = 1/10 Seconds

S = Seconds

.1 M = 1/10 Minutes

M = Minutes

.1 H = 1/10 Hours

H = Hours

10 H = 10 Hours

Timing Range 0.1 to 99.9 Seconds Timing Range 1 to 999 Seconds

Timing Range 0.1 to 99.9 Minutes

Timing Range 1 to 999 Minutes

Timing Range 0.1 to 99.9 Hours

Timing Range 1 to 999 Hours Timing Range 10 to 9990 Hours Repeat: Output relay is turned on at end of programmed time interval which is started by application of input power. Relay stays on for equal time interval, then turns off and cycle is repeated on a free-running basis with equal on and off times until terminated by removal of input power. LED is flashing when output relay is off and on continuously when the relay is on. Applying CONTROL input during timing will have no effect on timing or the state of the relay.

One Shot: Output relay is turned on by applying CONTROL input with input of the short couple lead is turned on by applying control input with input with the CONTROL input on. Immediately upon either, timing is initiated with the output relay turning off at the completion of the selected time interval. Applying CONTROL input after time out will reset the timer, turn on the output relay and initiate another time interval. LED is on continuously when output relay is off and flashes when the relay is on. Applying CONTROL input during timing will have no effect on timing or the state of the relay.

Off Delay: Output relay is turned on by applying CONTROL input with input voltage present or application of input voltage with the CONTROL input on. The time interval will be started by removing the CONTROL input with the output relay turning off at completion of the time interval. Reapplying the CONTROL during timing will reset the time to zero and inhibit timing until removed. LED is off when CONTROL input is on, flashing during timing and on continuously when the output

Interval: Output relay is turned on for a programmed time interval by applying input voltage. LED flashes when output relay is on and is on continuously when the output relay is off. Applying CONTROL input will have no effect on timing or the state of the relay.

On Delay: Output relay is off for a programmed time interval which is started by applying input voltage. LED flashes when output relay is off and is on continuously when the output relay is on. Applying CONTROL input will have no effect on timing or the state of the relay.