



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](mailto:info@chipsmall.com) Web: [www.chipsmall.com](http://www.chipsmall.com)

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



# 816 digital timers

## → 816

### Relay output

- Multi-range
- Multi-voltage
- 1 relay output
- Access to programming locked
- Up or down timing mode
- Internal power supply by battery (10 years / 20°C)



### Specifications

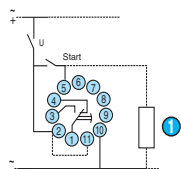
Type	Functions	Connections	Relay outputs	Supply voltage	Nominal rating	Code
Timer 816	A, B, C, D, Di, H	8-pin plug-in	1 timed changeover	24 V AC DC/48 V AC DC	8 A	88 857 604
	A, B, C, D, Di, H	8-pin plug-in	1 timed changeover	24 V AC DC/110 V AC	8 A	88 857 607
	A, B, C, D, Di, H	8-pin plug-in	1 timed changeover	24 V AC DC/220.240 V AC	8 A	88 857 601
	A, B, C, D, Di, H	11-pin plug-in	1 timed changeover	24 V AC DC/48 V AC DC	8 A	88 857 704
	A, B, C, D, Di, H	11-pin plug-in	1 timed changeover	24 V AC DC/48 V AC DC	8 A	88 857 707
	A, B, C, D, Di, H	11-pin plug-in	1 timed changeover	24 V AC DC/220. 240 V AC	8 A	88 857 701

### Accessories

	Code
Asymmetrical adaptor A	79 694 005
8-pin solder-connected plug	25 622 301
11-pin solder-connected plug	25 622 076
8-pin solder-connected base	79 694 016
Spring clips	79 237 790
11-pin connector socket	25 622 077
8-pin connector socket	25 622 128
11-pin rear base	79 694 002

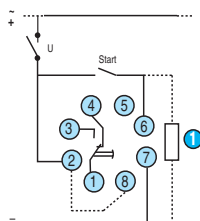
### Connections

#### Timer 816 - 11-pin



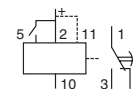
① Other loads may be connected in parallel

#### Timer 816 - 8-pin



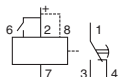
① Other loads may be connected in parallel

#### Timer 816 - 11-pin



2-10 Supply  
(2-11) Bridge for 24 V supply  
2-5 Control contact reset  
1-3-4 Timed output contact

#### Timer 816 - 8-pin



2-7 Supply  
(2-8) Bridge for 24 V supply  
2-6 Control contact reset  
1-3-4 Timed output contact

## General characteristics

### Display

Number of digits	4
Height of digits	7 mm

### Precision

Timing ranges	99 → 99 s 999 → 9 s 9999 s 99 mn 59 s 99 → 99 mn 999 → 9 mn 9999 mn 99 h 59 mn 99 → 99 h 999 → 9 h 9999 h
---------------	---

Repetition accuracy (with constant parameters)	± 0.03 % ± 20 ms
Display accuracy	± 0.03 % ± 20 ms
Min. control pulse	50 ms
Maximum reset time by de-energisation during timed delay	50 ms
Maximum reset time by de-energisation after timing	50 ms

### Output specification

Nominal rating	8 A AC 8 A DC
Max. breaking voltage	250 AC 30 V DC
Maximum power rating (resistive)	2000 VA - 190 W
Maximum admissible current	15 A < 0.01 s
Minimum current	100 mA
Electrical life at I max., 250 V AC resistive (cycles)	10 <sup>5</sup>
Max. permitted number of operations at 1 max 250 V AC resistive per hour	600
Mechanical life (operations)	5 x 10 <sup>6</sup>

### Function and use

Voltage variation	+ 10 % - 15 %
Immunity from micro power cuts	< 0.03 s
Maximum power consumption	0.5 W/24 V 1.5 W/48 V 1 VA/24 V 1, 5, VA/48 V 4 VA/110 V 12 VA/230 V
Temperatures limits use (°C)	-10 → +60
Temperature limits stored (°C)	-30 → +70
Degree of protection front face	IP65
Insulation according to standard VDE 0110-IEC 255 group C	•
Protection class according to UTE C 20010 - IEC 529 - DIN 40050	•
Conformity to standards ICE 255 - VDE 0435 - 2021	•
Mounting Front panel, by clip	•
Mounting base-mounted on socket	•
Material	Self-extinguishing UL 94 grade Vo
Weight (g)	100

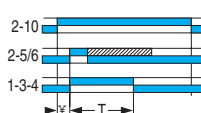
## Curves

### Function A



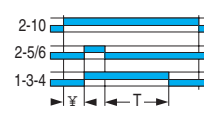
Delay on energisation 1 timed relay

### Function B



Timing on impulse (on shot)

### Function C



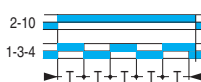
Timing after impulse (delay off)

### Function D



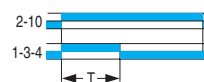
Flip-flop

### Function Di



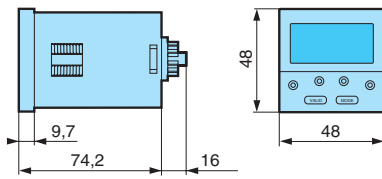
Flip-flop

### Function H

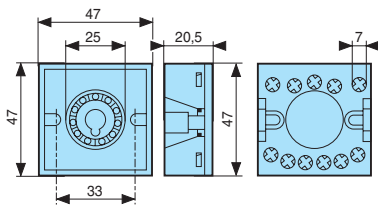


Timing or energisation

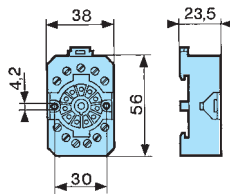
## Dimensions



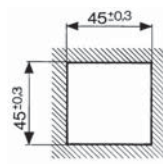
**11-pole rear base** 79 694 002 **Panel-mounted**



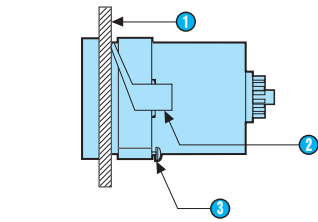
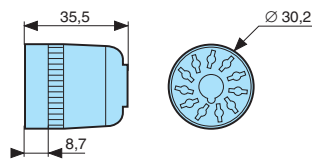
**Connector socket** 11-pin 25 622 077  
8-pin 25 622 128



### Panel cut-out

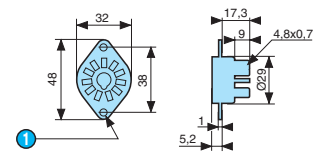


**8-pin or 11-pin solder-connected plug**  
25 622 076 - 25 622 301



- 1 Panel thickness 1 to 3.5 mm
- 2 Clip for panel-mounting
- 3 Positioning screw

**8-pin solder-connected base**  
79 694 016



- 1 2 holes