

# TIMER 816 panel-mounted digital display electronic timers

## Relay output

- Bright red display
- Multi-function
- 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)

### Characteristics

#### Display

Number of digits	4
Height of digits	7 mm

#### Accuracy

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 after timing: 50 ms

#### Output specification

Nominal current	8 A ~ 8 A ~
Max. breaking voltage	250 ~ 30V ~
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 ~, resistive (cycles)	10 <sup>5</sup>
Max. permitted number of operations per hour at I max., 250 V ~, resistive	600
Mechanical life (operations)	5 • 10 <sup>6</sup>

#### Function and use

Voltage variation	+ 10 % -15 %
Immunity from micro power cuts	< 0.03 s
Maximum absorbed power	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/230V

Temperature limits	Use: -10 °C + 60 °C Stored: -30 °C + 70 °C
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Panel protection IP65

Insulation according to standard VDE 0110 and IEC 255 group C ●

Protection class according to UTE C 20010 IEC 529 - DIN 40050 ●

Conformity to standards IEC 255 VDE 0435 - 2021 ●

Mounting ● Panel-mounted by clip  
● Base-mounted on socket

Housing Self-extinguishing to UL 94 grade V0

Weight (g) 100

### Timing

#### Types

8-pin plug-in

11-pin plug-in

#### Part numbers (and voltages)

24 V ~ / 48V ~ - 50 • 60 Hz

24 V ~ / 110V ~ - 50 • 60 Hz

24 V ~ / 220 • 240V ~ - 50 • 60 Hz

#### Functions

### Relay output

#### Nominal current

#### Timing ranges

99 • 99 s      999 • 9 s      9999 s      99 min 59 s

99 • 99 min      999 • 9 min      9999 min      99 h 59 min

99 • 99 h      999 • 9 h      9999 h

#### Internal layout

#### Terminal identification

2 - 10 or 2 - 7 Supply

Bridge (2 - 11) or (2 - 8) for 24 V supply

2 - 5 or 2 - 6 Control contact or reset

1 - 3 - 4 Timed output contact

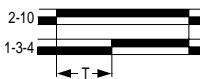
#### Accessories

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	79 237 739
11-pin connector socket	25 622 077
8-pin connector socket	25 622 128
11-pin rear base	79 694 002

#### Function diagrams

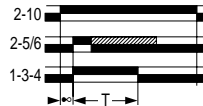
##### Function A

Delay on energisation  
1 timed relay



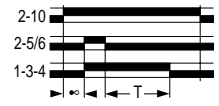
##### Function B

Timing on impulse  
(one shot)



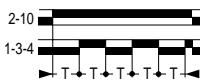
##### Function C

Timing after impulse  
(delay off)



##### Function D

Flip-Flop



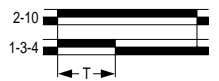
##### Function Di

Flip-Flop



##### Function H

Timing on energisation



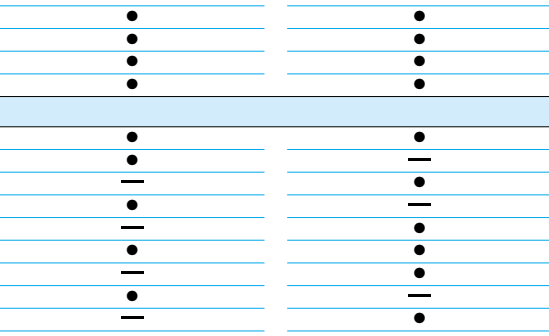
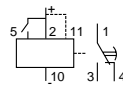
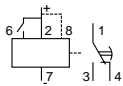


0.01 s • 9999 h

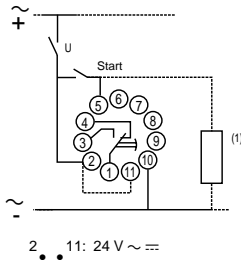
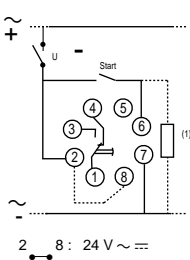
**Timer 816**

88 857 604	88 857 704
88 857 607	88 857 707
88 857 601	88 857 701

Multi-function A, B, C, D, Di, H 1 timed changeover	Multi-function A, B, C, D, Di, H 1 timed changeover
8 A	8 A



**Connections**



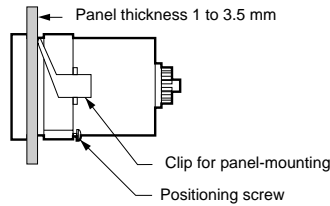
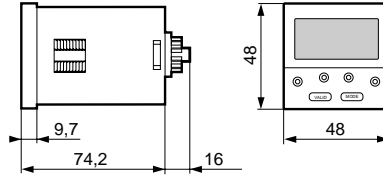
(1) Other loads may be connected in parallel

**1**

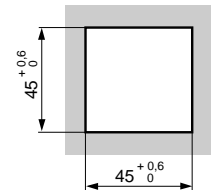
**2**

**3**

**Dimensions**

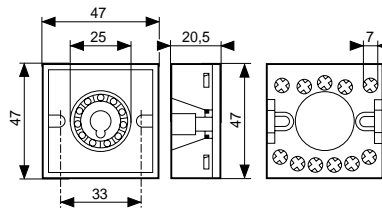


Panel cut-out

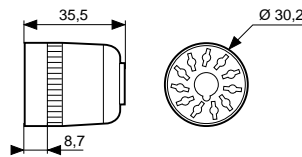


**Accessories**

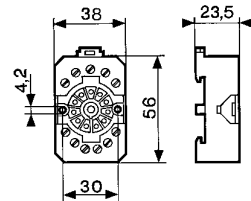
11-pin rear base  
**79 694 002**  
Panel-mounted



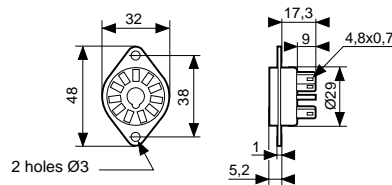
8-pin or 11-pin solder-connected plug  
**25 622 076 - 25 622 301**



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



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



**To order, specify :**

Standard products

**1** Type

**2** Part number

**3** Accessory

Standard products,  
non stocked

Example : TIMER 816 digital display electronic timer - 88 875 601 - 8-pin connector plug 25 622 301