

## Excellent Integrated System Limited

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[88857701](#)

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## 48 x 48 Digital LED Timer 816 Part number 88857701



- 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)

### Part numbers

|            | Type      | Functions         | Connection     | Relay outputs      | Supply voltage             | Nominal rating |
|------------|-----------|-------------------|----------------|--------------------|----------------------------|----------------|
| 88 857 701 | Timer 816 | A, B, C, D, Di, H | Plug-in 11 way | 1 timed changeover | 24 V ACDC / 220 à 240 V AC | 8 A            |

### Specifications

|                                                                          |                                                                                                                                         |
|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Number of digits                                                         | 4                                                                                                                                       |
| Height of digits                                                         | 7 mm                                                                                                                                    |
| Timing ranges                                                            | 99 ■ 99 s<br>999 ■ 9 s<br>9999 s<br>99 mn 59 s<br>99 ■ 99 mn<br>999 ■ 9 mn<br>9999 mn<br>99 h 59 mn<br>99 ■ 99 h<br>999 ■ 9 h<br>9999 h |
| Repetition accuracy (with constant parameters)                           | ± 0,03 % ± 20 ms                                                                                                                        |
| Display precision                                                        | ± 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                                                                                                                                   |
| Nominal rating                                                           | 8 A AC 8 A DC                                                                                                                           |
| Max. breaking voltage                                                    | 250 V 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>                                                                                                                     |
| 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<br>VA/24 V 1, 5, VA/48 V<br>4 VA/110 V 12 VA/230 V                                                              |
| Temperature limits use (°C)                                              | -10 → +60                                                                                                                               |
| Temperature limits stored (°C)                                           | -30 → +70                                                                                                                               |
| Degree of protection front face                                          | IP65                                                                                                                                    |
| Insulation according to standard IEC/EN 61812-1, IEC/EN 60255-5          | ■                                                                                                                                       |
| Protection class according to CEI/EN 60529                               | ■                                                                                                                                       |
| Mounting Front panel, by clip                                            | ■                                                                                                                                       |
| Mounting base-mounted on socket                                          | ■                                                                                                                                       |
| Material                                                                 | Self-extinguishing UL 94 grade Vo                                                                                                       |
| Weight (g)                                                               | 100                                                                                                                                     |

### Accessories

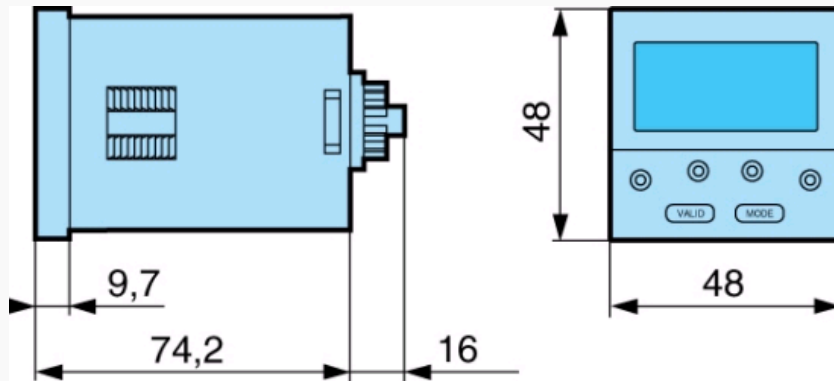
| Accessories                  | Code       |
|------------------------------|------------|
| Asymmetrical adaptor A       | 79 694 005 |
| 8-pin solder-connected plug  | 25 622 301 |
| 11-pin solder-connected plug | 25 622 076 |
| 8-pin solder-connected base  | 79 694 016 |

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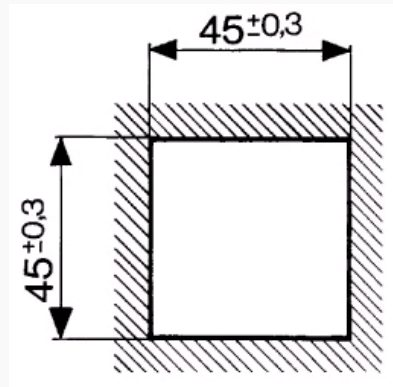
|                          |            |
|--------------------------|------------|
| Spring clips (pack of 2) | 79237739   |
| 11-pin connector base    | 25622080   |
| 8-pin connector socket   | 25 622 128 |
| 11-pin rear base         | 79 694 002 |

#### Dimensions (mm)

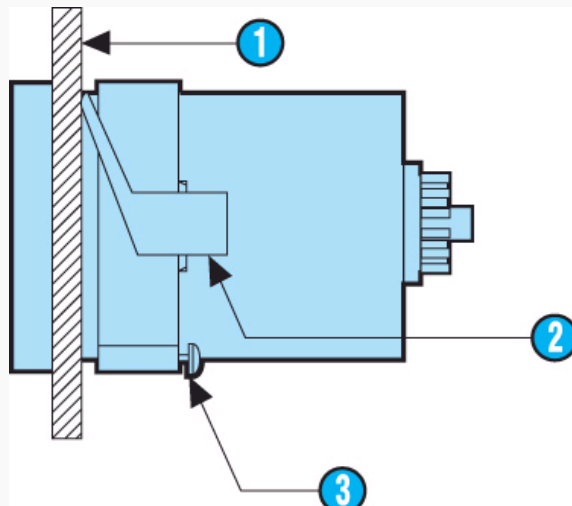


#### Dimensions (mm)

Panel cut-out



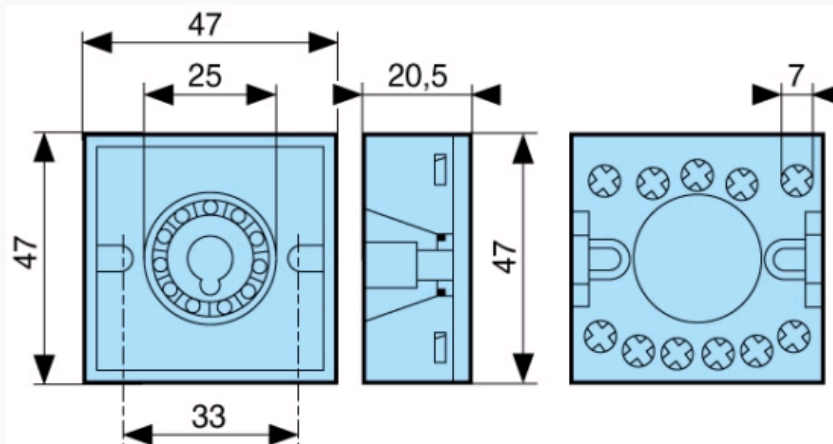
#### Dimensions (mm)



| N° | Legend                      |
|----|-----------------------------|
| ①  | Panel thickness 1 to 3,5 mm |
| ②  | Clip for panel-mounting     |
| ③  | Positioning screw           |

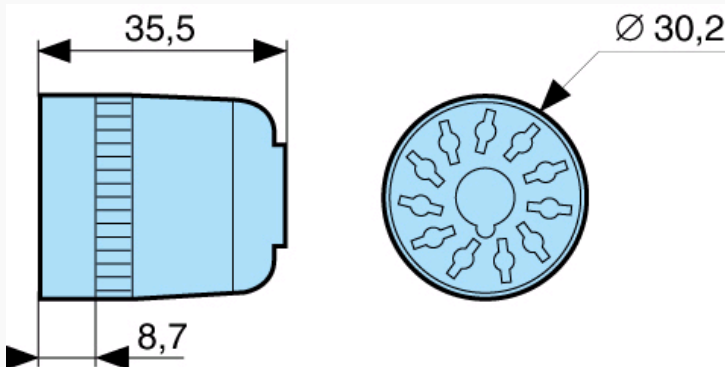
**Dimensions (mm)**

11-pole rear base panel-mounted  
79 694 002



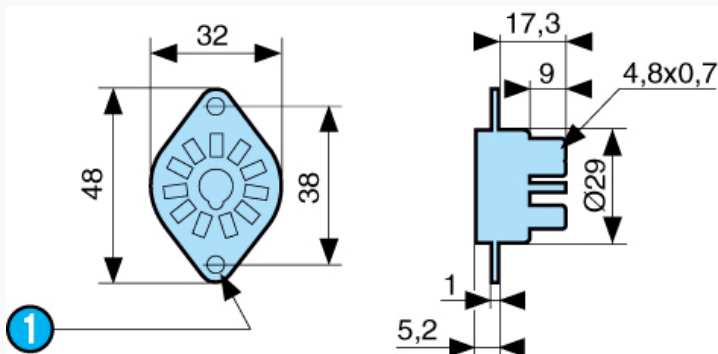
**Dimensions (mm)**

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



**Dimensions (mm)**

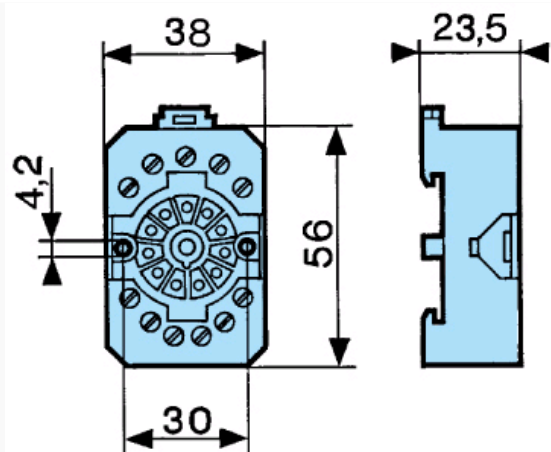
8-pin solder-connected base  
79 694 016



| N° | Legend  |
|----|---------|
| ①  | 2 holes |

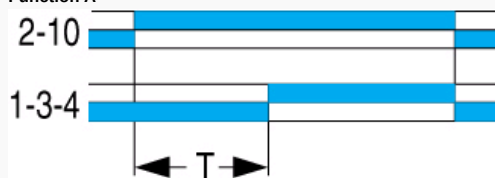
**Dimensions (mm)**

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



#### Curves

##### Function A

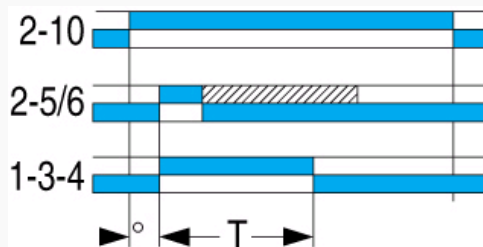


##### Function A

Delay on energisation  
1 timed relay

#### Curves

##### Function B

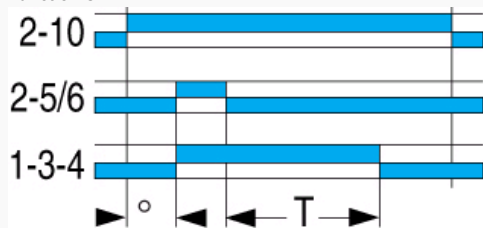


##### Function B

Timing on impulse (on shot)

#### Curves

##### Function C

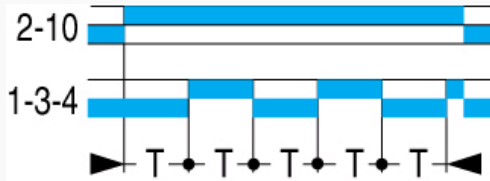


##### Function C

Timing after impulse (delay off)

## Curves

### Function D

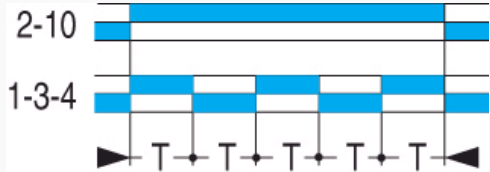


### Function D

Flip-flop

## Curves

### Function Di

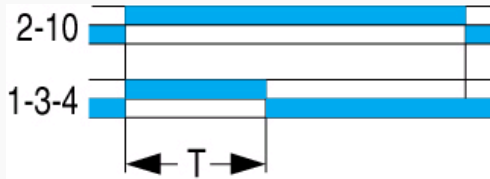


### Function Di

Flip-flop

## Curves

### Function H

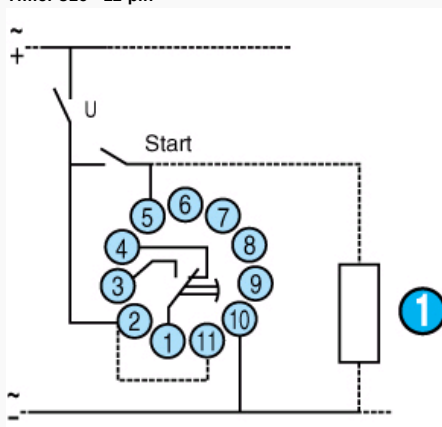


### Function H

Timing or energisation

## Connections

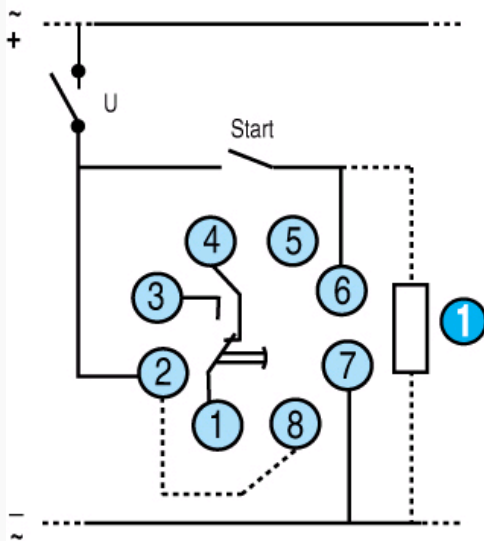
### Timer 816 - 11-pin



| N° | Legend                                   |
|----|------------------------------------------|
| 1  | Other loads may be connected in parallel |

## Connections

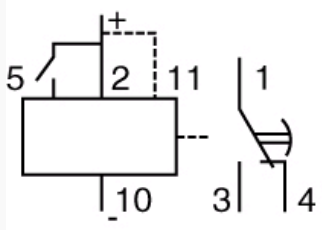
### Timer 816 - 8-pin



| N° | Legend                                   |
|----|------------------------------------------|
| ①  | Other loads may be connected in parallel |

## Connections

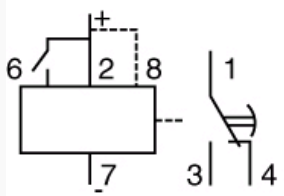
### Timer 816 - 11-pin



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

## Connections

### Timer 816 - 8-pin



| N°    | Legend                 |
|-------|------------------------|
| 2-7   | Supply                 |
| (2-8) | Bridge for 24 V supply |
| 2-6   | Control contact reset  |

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1-3-4

Timed output contact

#### Connections

CA 88857601

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