

# TOP 48 panel-mounted electronic timers with analogue setting

## Relay output

- Multi-function or mono-function
- Multi-range
- Multi-voltage or mono-voltage
- 1 or 2 changeover relays
- Display of output states by 2 LEDs
- Connection by 8-pin base or 11-pin base
- Housing 48 x 48 mm

Characteristics		
Accuracy	TOP 48 C1-C2	TOP 48 L
Repetition accuracy (with constant parameters)	± 0.5 %	± 0.2 %
Variation according to VDE 0435	0 + 40 °C -20 +60 °C	± 3 % ± 5 %
Display accuracy	± 5 %	± 10 %
Min. control pulse	0.02 s	—
Maximum reset time	by de-energisation 100 ms	—
	During T ON	50 ms
	During T OFF	100 ms
Immunity from micro power cuts	0.02 s	0.02 s
Output specification		
Nominal rating	8 A ~ 1 A ~	8 A ~ 1 A ~
Nominal voltage	250 V ~	250 V ~
Rating	1100 VA 30 W	2000 VA 30 W
Maximum admissible current	15 A <0.01 s	15 A <0.01 s
Minimum current	50 mA ~	50 mA ~
Electrical life at I max., 250 V ~, resistive (cycles)	10 <sup>5</sup>	2 x 10 <sup>5</sup>
Max. permitted number of operations per hour at I max., 250 V ~, resistive	600	600
Mechanical life (operations)	10 <sup>7</sup>	2 x 10 <sup>7</sup>
Function and use		
Display of output state by LED	"UP" output in operation Green LED "ON" power on Red LED	Green LED Red LED
Voltage variation	± 15 % Un 127 V <sup>+10%</sup> - 240V <sup>+10%</sup>	± 15 % Un 127 V <sup>+10%</sup> - 240V <sup>+10%</sup> 12 V
Max. absorbed power	TOP 48 C1	1.5 W / 24 V 5 VA / 110 • 127 V 10 VA / 220 • 240V
	TOP 48 C2	3 W / 24 V 10 VA / 110 • 127 V 20 VA / 220 • 240V
	TOP 48 L	7 VA / 220 V 3.5 VA / 110 V 1.2 W / 48 V 0.6 W / 24 V 0.5 W / 12 V
		—
Temperature limits	Use -20 +60 °C Stored -25 +70 °C	-20 +60 °C -25 +70 °C
Insulation according to standard VDE 0110 - IEC 255 Group C	250 V ~	250 V ~
Dielectric strength according to Standard IEC 255 or VDE 0435	—	500 V Un ≤ 60 V 2000 V Un ≤ 60 V
Protection class according to NFC 20010 - IEC 529 - DIN 40050	IP40	IP50
Conformity to standards IEC 255 - VDE 0435 - 2021	●	●
Mounting	Front panel, by clip Base-mounted on socket	● —
Weight (g)	110	110

## Timing

## Types

### Part numbers (and voltages)

12 V ~  
24 V ~ / 50 • 60 Hz  
24 V ~ / 42 • 48 V ~ - 50 • 60 Hz  
24 V ~ / 110 • 127 V - 50 • 60 Hz  
24 V ~ / 220 • 240 V - 50 • 60 Hz  
110 • 127 V ~ - 50 • 60 Hz  
220 • 240 V ~ - 50 • 60 Hz

(1) For DC supply 48 V ~ - Additional resistor required.

## Functions

### Relay output

### Nominal rating

### Timing ranges (8 available options) \*

8 available	0.1 s • 1 s	1 s • 10 s	6 s • 60 s	0.4 min • 4 min
options	1 min • 10 min	6 min • 60 min	1 h • 10 h	6 h • 60 h
6 available	0.1 s • 1 s	1 s • 10 s	0.1 min • 1 min	
options	1 min • 10 min	0.1 h • 1 h	1 h • 10 h	

## Internal layout

### Terminal identification

	C1	C2	L
2 - 10 Supply	●	—	●
Bridge (7 - 10) for 24 V supply	●	—	—
Bridge (10-11) for 24 V supply	—	—	●
Control contact (6 - 2)	●	—	—
1 - 3 - 4 - Timed relay output	●	—	●
11 - 8 - 9 - Timed relay output	●	—	—
2 - 7 - Supply	—	●	—
1 - 3 - 4 - Instantaneous relay output	—	●	—
8 - 5 - 6 - Timed relay output	—	●	—

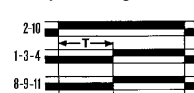
## Accessories

Solder tag connector	8-pin 11-pin	25 622 301 25 622 076
Screw terminal or connector	8-pin 11-pin	25 622 128 25 622 077
Spring clips (pack of 2)		79 237 739
Protective cover IP54		79 237 709
Protective cover IP64		79 237 785

## Function diagrams

### Function A (TOP 48 C1)

Delay on energisation



### Function A (TOP 48 C2)

Timing after impulse (delay off)



### Function B

Timing on impulse



### Function L (TOP 48 L)

Timing after impulse (delay off)



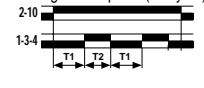
### Function C

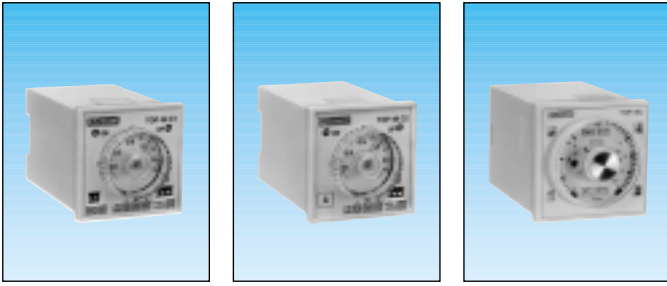
Timing after impulse (delay off)



### Function La

Timing after impulse (delay off)

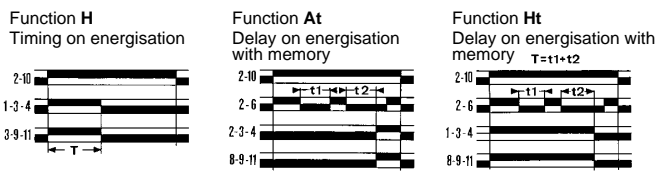
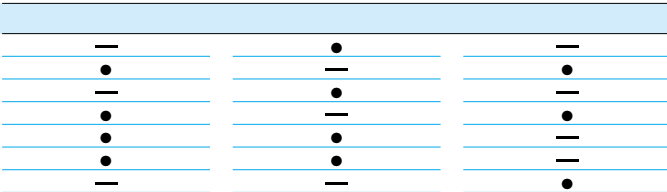
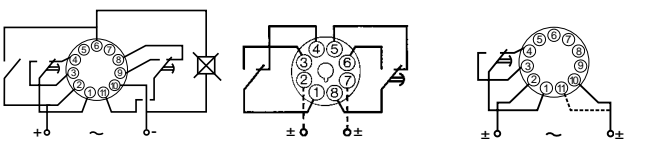
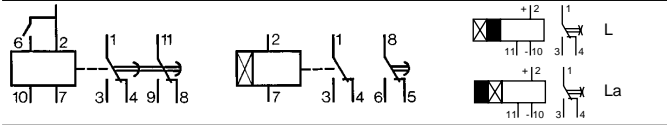
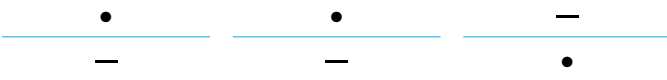




0.1 s • 60 h      0.1 s • 60 h      0.1 s • 10 h

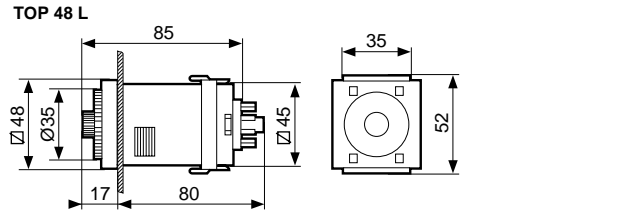
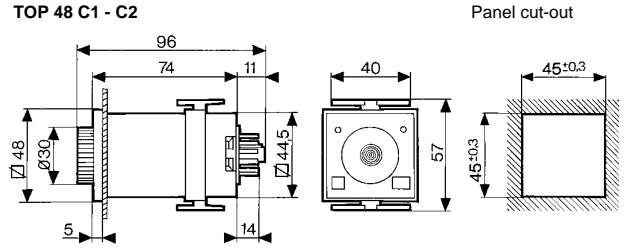
C1	C2	L
—	—	<b>88 886 509</b>
—	<b>88 886 100</b>	—
<b>88 886 005</b>	—	<b>88 886 507</b>
<b>88 886 006</b>	—	<b>88 886 505</b>
—	<b>88 886 102</b>	—
—	<b>88 886 104</b>	—
560 Ω-2 W / 24 V ~	330 Ω-2 W / 24 V ~	—

Multi-function A, B, C, H, At, Ht	Mono-function A	Multi-function L, La
2 timed changeover	1 timed changeover 1 instantaneous changeover	1 timed changeover
5 A ~ 1 A V ~	5 A ~ 1 A V ~	8 A ~

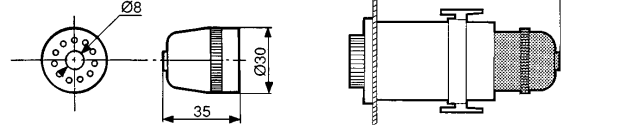


1

**Dimensions - mounting**

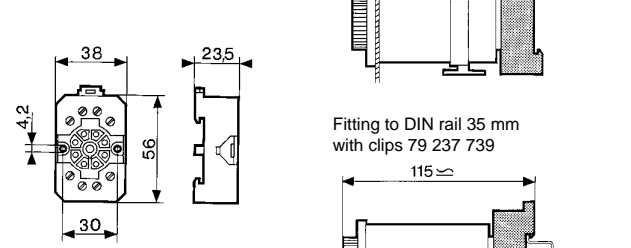


Solder tag connector  
**25 622 076** - 11-pin - TOP 48 C1 and L  
**25 622 301** - 8-pin - TOP 48 C2

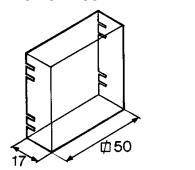


Screw terminal or connector socket  
**25 622 077** - 11-pin - TOP 48 C1 and L  
**25 622 128** - 8-pin - TOP 48 C2

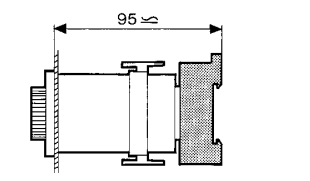
Spring clips  
**79 237 739** - Packet of 2 clips  
 Retain timer on connector socket



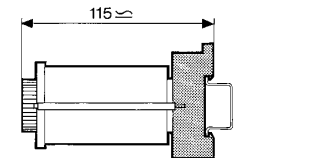
Protective cover - IP 54  
**79 237 709**



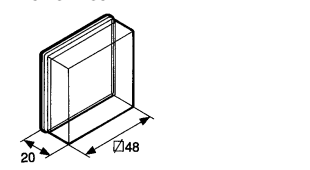
Front-panel mounting



Fitting to DIN rail 35 mm  
 with clips **79 237 739**



Protective cover - IP 64  
**79 237 785**



**To order, specify :**

Standard products	1 Part number	2 Accessory
Standard products, non stocked	Example : TOP 48 C1 electronic timer - 88 886 005 - Connector 25 622 076	