

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	—	
	During T OFF	—	
		50 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 ⁵	2 x 10 ⁵	
Max. permitted number of operations per hour at I max., 250 V ~, resistive	600	600	
Mechanical life (operations)	10 ⁷	2 x 10 ⁷	
Function and use			
Display of output state by LED	"UP" output in operation	Green LED	Green LED
	"ON" power on	Red LED	Red LED
Voltage variation	± 15 % Un	± 15 % Un	± 15 % Un
	127 V ^{+10%} - 240V ^{+10%}	127 V ^{+10%} - 240V ^{+10%} 12 V	127 V ^{+10%} - 240V ^{+10%} 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	-20 +60 °C
	Stored	-25 +70 °C	-25 +70 °C
Insulation according to standard VDE 0110 - IEC 255 Group C	250 V ~	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	IP50
Conformity to standards IEC 255 - VDE 0435 - 2021	●	●	●
Mounting	Front panel, by clip	●	●
	Base-mounted on socket	●	—
Weight (g)	110	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	25 622 301
Solder tag connector	11-pin	25 622 076
Screw terminal or connector	8-pin	25 622 128
Screw terminal or connector	11-pin	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

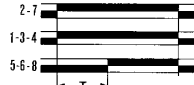
Function A (TOP 48 C1)

Delay on energisation



Function A (TOP 48 C2)

Delay on energisation



Function B

Timing on impulse



Function L (TOP 48 L)

Timing after impulse (delay off)



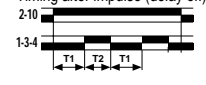
Function C

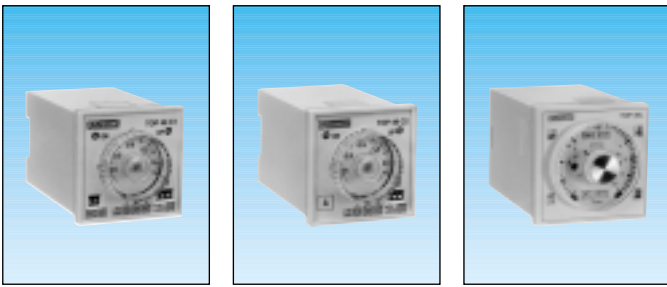
Timing after impulse (delay off)



Function La

Timing after impulse (delay off)

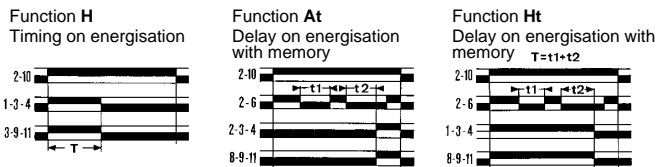
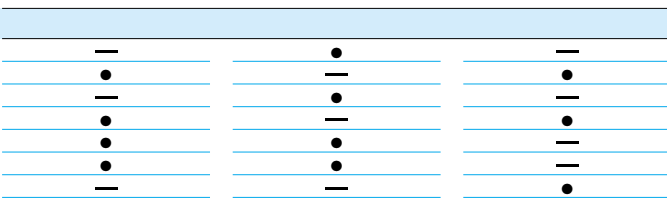
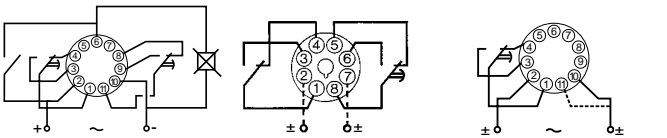
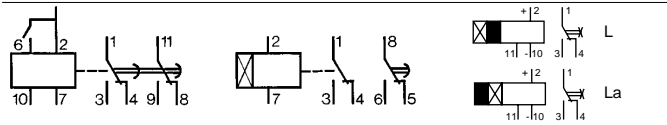
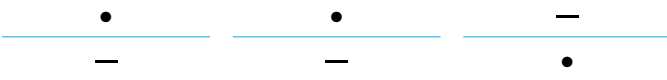




0.1 s • 60 h 0.1 s • 60 h 0.1 s • 10 h

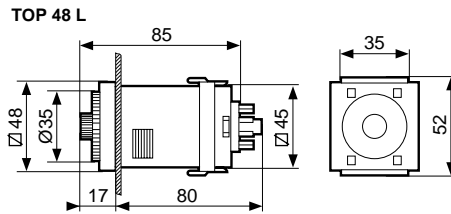
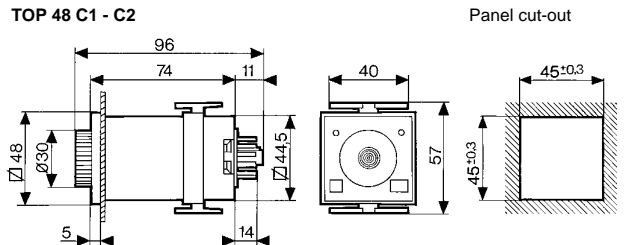
C1	C2	L
—	—	88 886 509
—	88 886 100	—
88 886 005	—	88 886 507
88 886 006	—	88 886 505
—	88 886 102	—
—	88 886 104	—
560 Ω-2 W / 24 V ~	330 Ω-2 W / 24 V ~	—

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 ~

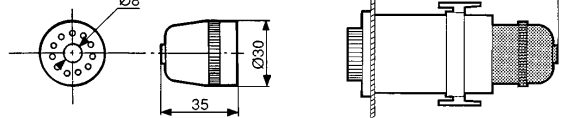


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Dimensions - mounting

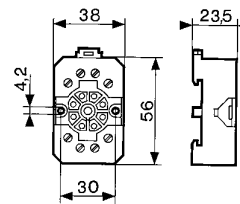


Solder tag connector
25 622 076 - 11-pin - TOP 48 C1 and L
25 622 301 - 8-pin - TOP 48 C2

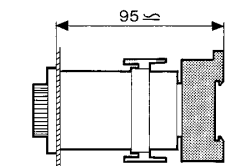


Screw terminal or connector socket
25 622 077 - 11-pin - TOP 48 C1 and L
25 622 128 - 8-pin - TOP 48 C2

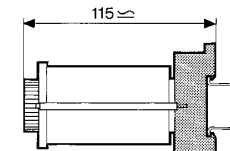
Spring clips
79 237 739 - Packet of 2 clips
 Retain timer on connector socket



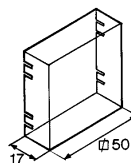
Front-panel mounting



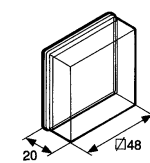
Fitting to DIN rail 35 mm
 with clips **79 237 739**



Protective cover - IP 54
79 237 709



Protective cover - IP 64
79 237 785



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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