

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 %	± 1 % ± 1.5 % ± 10 %
Min. control pulse	0.02 s	—
Maximum reset time	by de-energisation 100 ms	—
	During T ON	—
	During T OFF	50 ms
	—	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 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 "ON" power on	Green LED Red LED	Green LED Red LED
Voltage variation	± 15 % Un 127 V+10% ~ 240V+10%	± 15 % Un 127 V+10% ~ 240V+10% 12 V	
	1.5 W / 24 V		
	TOP 48 C1	5 VA / 110 • 127 V 10 VA / 220 • 240V	—
		3 W / 24 V	
	TOP 48 C2	10 VA / 110 • 127 V 20 VA / 220 • 240V	—
		7 VA / 220 V 3.5 VA / 110 V	
	TOP 48 L	1.2 W / 48 V 0.6 W / 24 V 0.5 W / 12 V	—
Temperature limits	Use Stored	-20 +60 °C -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 options	0.1 s • 1 s 1 min • 10 min	1 s • 10 s 6 min • 60 min	6 s • 60 s 1 h • 10 h	0.4 min • 4 min 6 h • 60 h
6 available options	0.1 s • 1 s 1 min • 10 min	1 s • 10 s 0.1 h • 1 h	0.1 min • 1 min 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

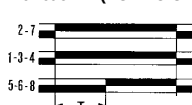
Function diagrams

Function A (TOP 48 C1)

Delay on energisation

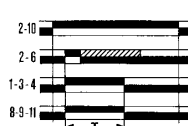


Function A (TOP 48 C2)

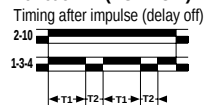


Function B

Timing on impulse

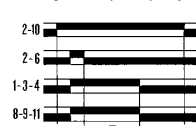


Function L (TOP 48 L)

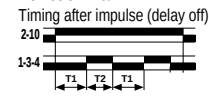


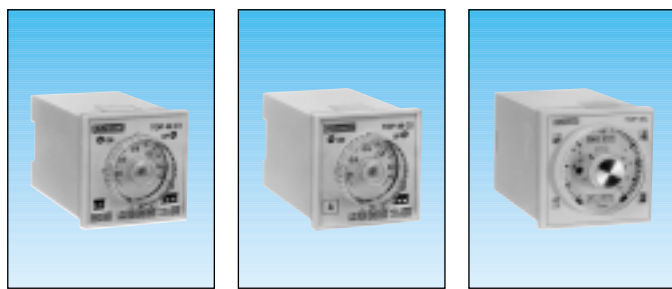
Function C

Timing after impulse (delay off)



Function La



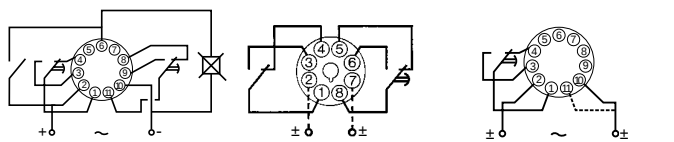
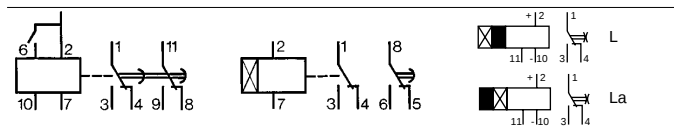


0.1 s • 60 h 0.1 s • 60 h 0.1 s • 10 h

C1	C2	L
—	—	88 886 509
—	88 886 100	—
—	—	88 886 507
88 886 005	—	88 886 505
88 886 006	—	88 886 506
—	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 ~

•	•	—
—	—	•

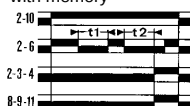


—	•	—
•	•	•
•	•	•
•	•	•
•	•	•
—	—	•

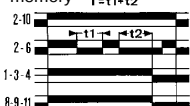
Function H
Timing on energisation



Function At
Delay on energisation
with memory



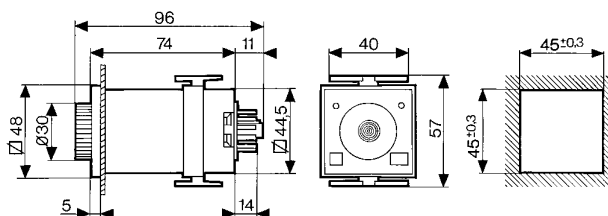
Function Ht
Delay on energisation with
memory $T=t_1+t_2$



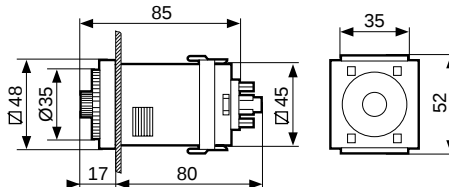
Dimensions - mounting

TOP 48 C1 - C2

Panel cut-out

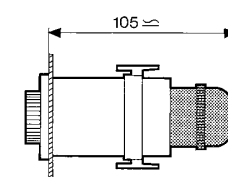
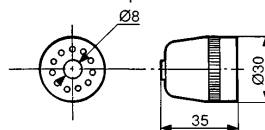


TOP 48 L



Solder tag connector

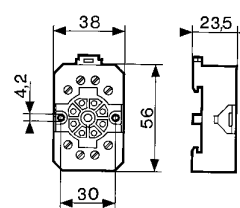
25 622 076 - 11-pin - TOP 48 C1 and L
25 622 301 - 8-pin - TOP 48 C2



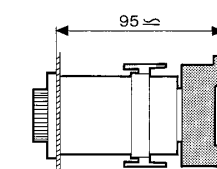
Screw terminal or connector socket

25 622 077 - 11-pin - TOP 48 C1 and L
25 622 128 - 8-pin - TOP 48 C2

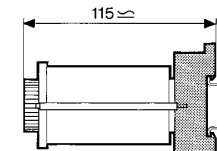
Spring clips
79 237 739 - Packet of 2 clips
Retain timer on connector socket



Front-panel mounting

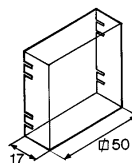


Fitting to DIN rail 35 mm
with clips 79 237 739



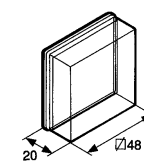
Protective cover - IP 54

79 237 709



Protective cover - IP 64

79 237 785



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