

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 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 "ON" power on Red LED | Green LED Red LED |
| Voltage variation | ± 15 % Un 127 V ^{+10%} - 240V ^{+10%} | ± 15 % Un 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 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 | 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

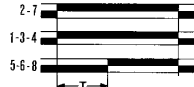
Function A (TOP 48 C1)

Delay on energisation



Function A (TOP 48 C2)

Delay on energisation



Function B

Timing on impulse



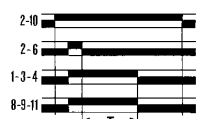
Function L (TOP 48 L)

Timing after impulse (delay off)



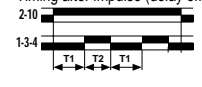
Function C

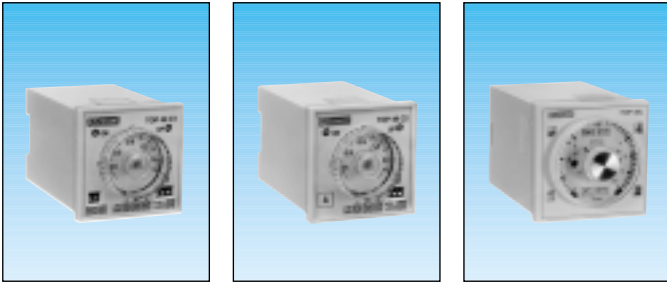
Timing after impulse (delay off)



Function La

Timing after impulse (delay off)

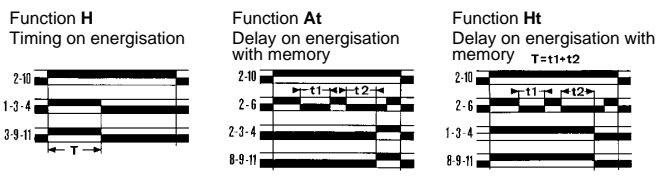
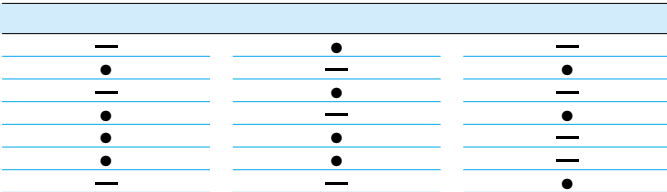
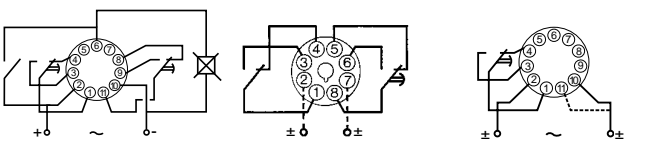
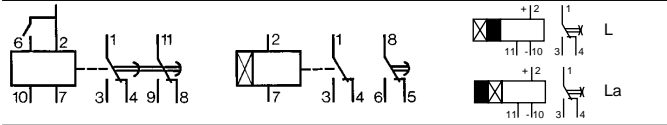
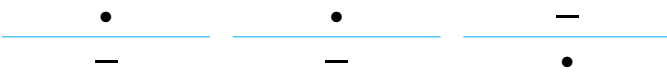




0.1 s • 60 h 0.1 s • 60 h 0.1 s • 10 h

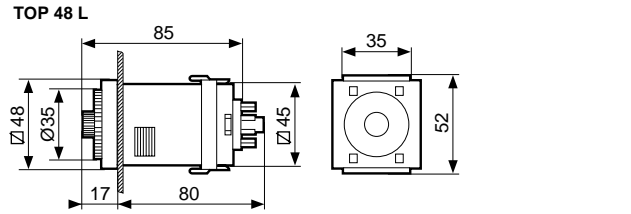
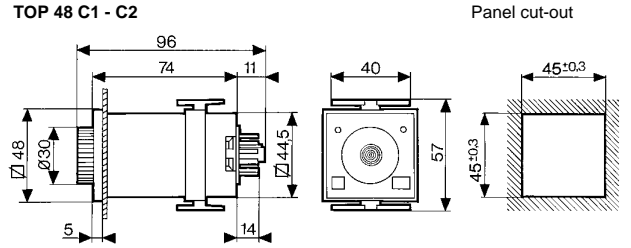
| C1 | C2 | L |
|--------------------|--------------------|-------------------|
| — | — | 88 886 509 |
| — | 88 886 100 | — |
| 88 886 005 | — | 88 886 507 |
| 88 886 006 | — | 88 886 505 |
| — | 88 886 102 | 88 886 506 |
| — | 88 886 104 | — |
| 560 Ω-2 W / 24 V ~ | 330 Ω-2 W / 24 V ~ | — |

| 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 ~ |

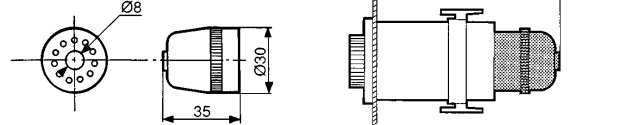


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Dimensions - mounting

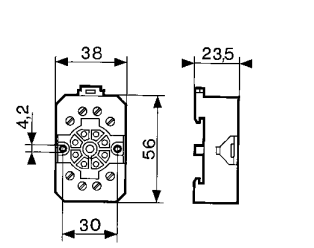


Solder tag connector
25 622 076 - 11-pin - TOP 48 C1 and L
25 622 301 - 8-pin - TOP 48 C2

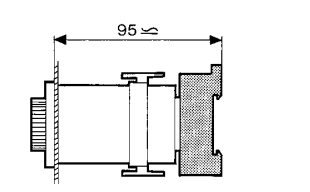


Screw terminal or connector socket
25 622 077 - 11-pin - TOP 48 C1 and L
25 622 128 - 8-pin - TOP 48 C2

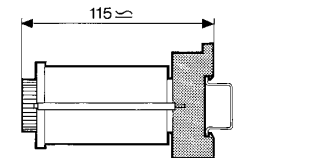
Spring clips
79 237 739 - Packet of 2 clips
 Retain timer on connector socket



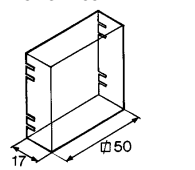
Front-panel mounting



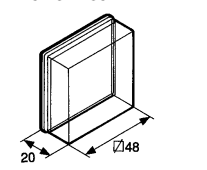
Fitting to DIN rail 35 mm
 with clips **79 237 739**



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 | |