Command contact

Can be switched in two ways:

- By closing an external voltage free contact between M and S.
- By connecting 5-35 Vac,dc between M(+) and R(-)

Each diagram represents the effet of the command contact for the two initial states of the output relay: de-energized (1L) and energized (1H).

U: power supply

cu Switched off contact. Its function is blocked.

Su función está inhibida

cr Reset contact

When connected the output relay is de-energized upon disconnecting, the programmed timing starts.



cl Lock contact

A partial shutdown of the timing takes place during its operation.



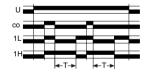
ci Delay on contact

When disconnected the output relay is de-energized; when connected the programmed timings starts.



co Delay off contact

When disconnected the output relay is de-energized. When connected, the relay is energized. When disconnected again, the programmed timings starts.



Function examples diagrams

U: power supply

R: output relay

Output relay at start: 1L de-energized; 1H energized.

Work mode: **CO** non-cycle; **C1** cycle. Command contact: **cu, cr, cl, ci, co.**

Delay ON 1L - CO - cu



Timing ON 1H - CO - cu



Delay OFF with command contact

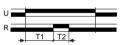
1H - CO - co



Double timing 1L - CO - cu

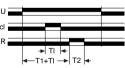


Double timing cycle work mode 1H - C1 - cu



Four timings cycle work mode

1H - C1 - cu

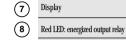


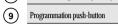
Timing with partial shutdown by command contact 1L - CO - cl

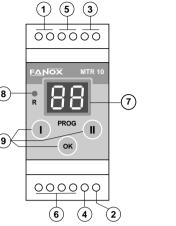


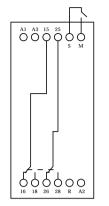
MULTIFUNCTION DIGITAL TIMER MTR 10











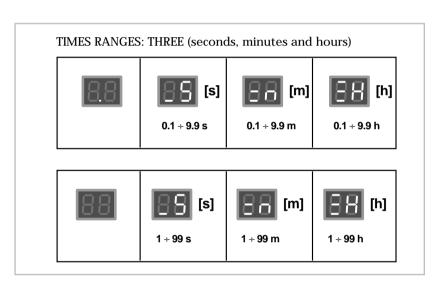
A1 - A2: 230 Vac (+15-10%) A2 - A3: 24 Vac, cc (+15-10%)

| , , | | |
|---------------------------|-----------------------------|--|
| OUTPUT RELAY | | |
| ON | OFF | |
| 15 25 0 16 18 26 28 | 15 25 0 0 16 18 26 28 | |

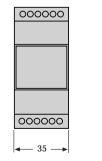
Technical data

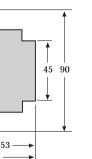


| Auxiliary supply | 230V 50/60 Hz / 8VA |
|---------------------------------------|--|
| +15-10% / Consumption | 24V Vdc.ac / 1W |
| Accuracy | 1% ± 10 ms |
| Repeat accuracy | 0,5% |
| Output contacts: | C300 - 125/250V I _{th} = 5 A |
| 1 relay with 2 timed | AC15 - 250V - 2A |
| change over contacts | DC13 - 30V - 2A |
| NO-NC | DC13 - 115V - 2A |
| Terminals: max section / screw torque | 2,5mm ² , No.22 - 12AWG/ 20 Ncm, 1,8 LB - IN |
| Mechanical / | >20 x 10 ⁶ OP / |
| electrical life | 10 ⁵ OP |
| Protection degree / | IP40 front / |
| weight | 0,15 kg |
| Storage / | -30°C +70°C / |
| operation temperature | -20°C +55°C |
| | |



Dimensions





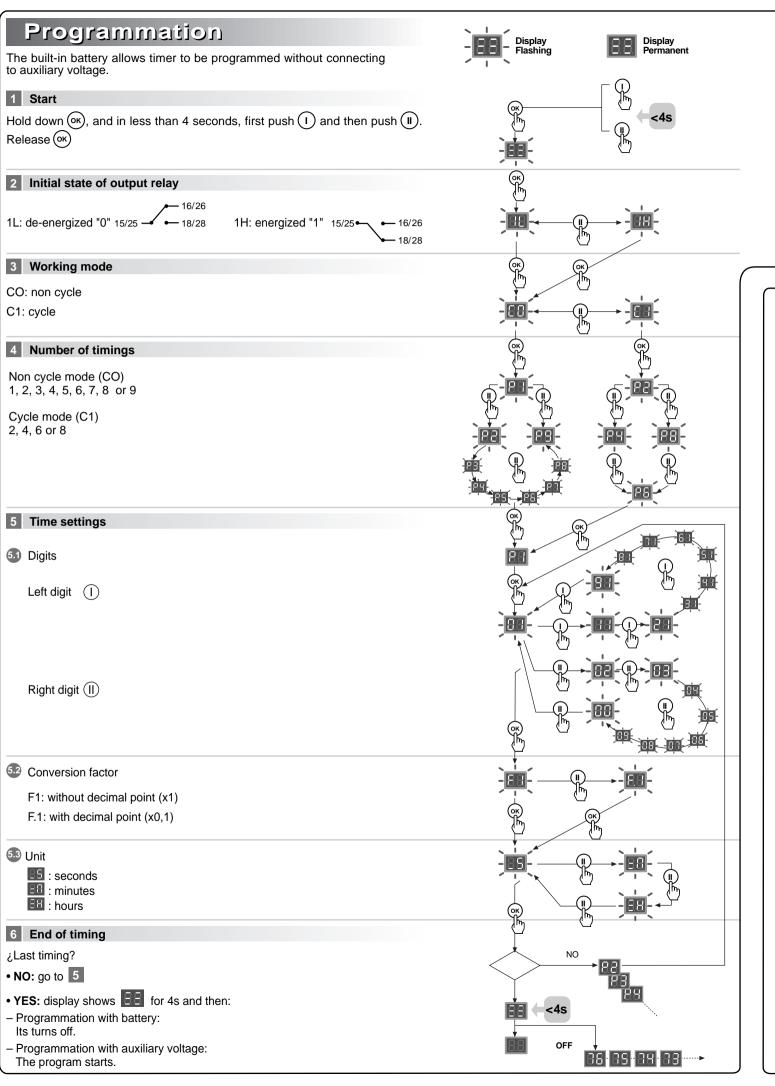
PROGRAMMABLES PARAMETERS

- 1º Initial state of output relays: energized (1H) or de-energized (1L).
- 2º Working mode: cycle (C1) or non-cycle (CO).
- 3º Number of different times per program: up to 8 in cycle mode and up to 9 in non-cycle.
- 4° Time setting range: from 0,1 seconds to 99 hours.
- 5º Command contact.

With built-in battery which allows timer to be programmed without connecting to auxiliary voltage.



- $\bullet \ ATTENTION: To \ prevent \ electrical \ shock, \ disconnect \ from \ power \ source \ before \ installing \ or \ servicing.$
- Check that the auxiliary voltage supply is correct.



7 Command contact

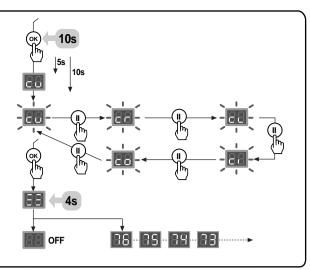
At the end of programmation, select command contact mode.

Hold down OF for 10s.

The programmed mode is shows in 5s. The timer is supplied with ${\bf cu}$ (function blocked).

The display shows during 4s and then:

- Programmation with battery: Its turns off.
- Programmation with auxiliary voltage:
 The program starts.



Review of the programmed settings

With timer working. Timing does not stop.

- The initial state of output relay is showed for 3s: 1L or 1H
- The working cycle is showed for 3s: CO or C1
- The number of timings is showed for 3s.
- Non cycle mode CO.
- Cycle mode C1
- 1, 2, 3, 4, 5, 6, 7, 8 or 9
- 2, 4, 6 or 8
- Present timing time is showed.
- Programmed value per timing.
- Select the timing number.
- Programmed time value.
- Time unit:

Seconds:

corius.

Minutes:

Hours:

Present timing time is showed.

Timing monitoring

Nearly each 10s information about the number of timings in curse and the display time unit appears for 2s.

• First digit:

seconds

Secol ius

minutes

hours

Second digit: timing number.

