AUTOMATISMOS
Control y Programación S.L.U.

# DIGITAL TIMER
# ASYMMETRIC CYCLIC

**XTDU303**
**XTDC303**

2 asymmetric cyclic functions + 2 single-cycle functions
LEDs showing output status and time base
Preset and elapsed time displayed at the same time
Multi-range from 0.01 second to 99.9 hours
IP65 front protection




Cyclic timer with two asymmetric cycle functions and two single-cycle timings. Very easy to program.

## SPECIFICATIONS

| | |
|---|---|
| Housing | Grey UL94 - V - 0 polycarbonate |
| Mounting | Snap-in bracket |
| Format | 48mm x 48mm |
| Weight | 170 g |
| Panel cut-out | 45mm x 45mm |
| Connector | XTDU303 - 11-pin socket<br>XTDC303 - Plug-in terminals |

## POWER SUPPLY

| | |
|---|---|
| Consumption | 2.3 VA |
| Voltage | 24 VAC - 48 VAC - 110 VAC - 230 VAC<br>12 VDC - 24 VDC |

## OUTPUT

| | |
|---|---|
| Output | 1 changeover contact 8 A 250 VAC |

## FUNCTIONS

| | | | |
|---|---|---|---|
| Time ranges | Selectable by side DIP switch | | |
| | SECONDS | MINUTES | HOURS |
| | 0.01s to 9.99s | 0.01m to 9.99m | 0.01h to 9.99h |
| | 0.1s to 99.9s | 0.1m to 99.9m | 0.1h to 99.9h |
| | 1s to 999s | 1m to 999m | |

| | |
|---|---|
| Operating modes | Selectable by side DIP switch |
| | A. Asymmetric cyclic |
| | B. Inverted asymmetric cyclic |
| | C. Double timing |
| | D. Inverted double timing |

⚠ Change the operating mode only with the device disconnected from the mains

## AMBIENT CONDITIONS

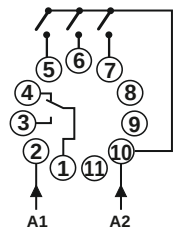
| | |
|---|---|
| Operating temperature | - 10º C + 55ºC |
| Storage temperature | - 25º C + 85ºC |

## STANDARDS

| | |
|---|---|
| CE compliance | 2014/35/EU ; 2014/30/EU |

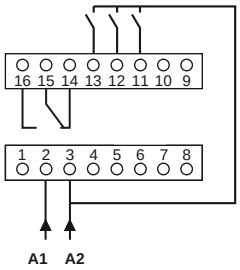
## WIRING

XTDU303




| | |
|---|---|
| 2 - 10 | Power supply |
| 5 | Start |
| 6 | Timing halt |
| 7 | Reset |
| 1 - 3 - 4 | Changeover output |

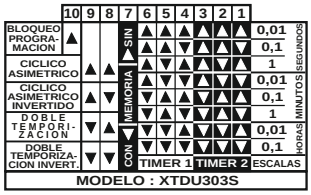
XTDC303




| | |
|---|---|
| 2 - 3 | Power supply |
| 13 | Start |
| 12 | Timing halt |
| 11 | Reset |
| 14 - 15 - 16 | Changeover output |

16 NO · 15 common · 14 NC

## FUNCTION SELECTION




DIP SELECTOR

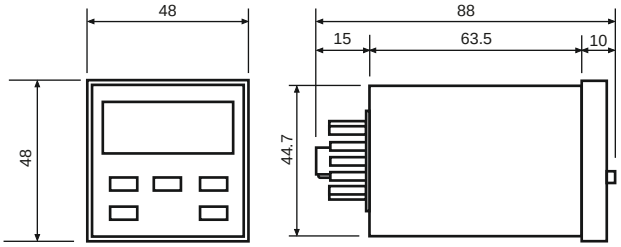
| | |
|---|---|
| 1 2 3 | Time 2 range selection |
| 4 5 6 | Time 1 range selection |
| 7 | Memory on/off selection |
| 8 9 | Operating mode selection |
| 10 | Programming lock |

## FRONT PANEL

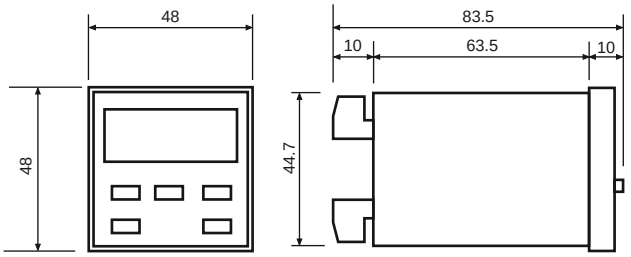



## DIMENSIONS

XTDU303

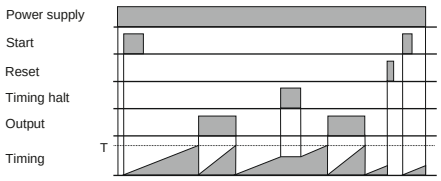



XTDC303



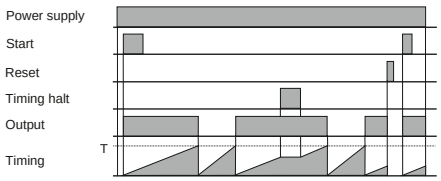
## OPERATING MODES

### Mode A. Asymmetric cyclic



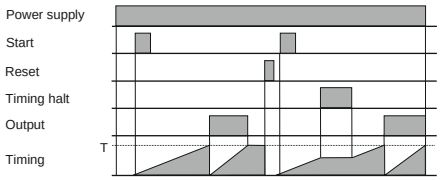

Timing T1 starts, with the device powered, when the START contact closes, or when power is applied if this contact is already closed. When T1 is reached, the output switches on and timing T2 starts. When T2 is reached, the output switches off and the cycle starts again. The timing halt input stops the timing. If memory is enabled, the relay switches off when power is lost; when power returns, the sequence continues from where it was at the moment of the failure. Reset is done through the RESET input, or by removing the power supply when memory is disabled.

### Mode B. Inverted asymmetric cyclic



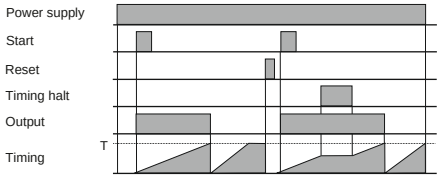

Timing T1 starts, with the device powered, when the START contact closes, or when power is applied if this contact is already closed. The output switches on when T1 starts and switches off when T1 is reached; then the second timing starts. When T2 is reached, the output switches on again and the cycle starts again. If memory is enabled, the relay switches off when power is lost; when power returns, the sequence continues from where it was at the moment of the failure. Reset is done through the RESET input, or by removing the power supply when memory is disabled.

### Mode C. Double timing




Timing T1 starts, with the device powered, when the START contact closes, or when power is applied if this contact is already closed. When T1 is reached, the output switches on and a second timing starts. When T2 is reached, the output switches off and the device stays in this state until a reset is made. If memory is enabled, the relay switches off when power is lost; when power returns, the sequence continues from where it was at the moment of the failure. Reset is done through the RESET input, or by removing the power supply when memory is disabled.

### Mode D. Inverted double timing




Timing T1 starts, with the device powered, when the START contact closes, or when power is applied if this contact is already closed. The output switches on when T1 starts and switches off when T1 is reached; then the second timing starts. When T2 is reached, the output switches on again and the device stays in this state until a reset is made. If memory is enabled, the relay switches off when power is lost; when power returns, the sequence continues from where it was at the moment of the failure. Reset is done through the RESET input, or by removing the power supply when memory is disabled.

## PRECAUTIONS

.- Before connecting the device, make sure the supply voltage is within the ranges shown on the label; otherwise internal parts of the timer may be damaged.

.- Use crimp terminals to wire the device. Stranded wire without terminals can cause a short circuit if a loose strand gets in.

.- If the devices are used where there is a lot of electrical noise, keep the device and its wiring away from the noise source.

.- If the devices are powered continuously, leave some free space between them for better ventilation, since excessive temperature can shorten the life of the internal components.

.- Do not expose the device to solvents or acids, as they can damage the housing. In highly corrosive or very humid environments, both the internal components and the printed circuit board (PCB) can be affected.

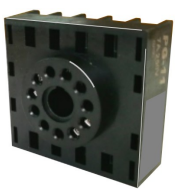
## ACCESSORIES

**ZB11-0 SOCKET**




11-pin socket for DIN-rail mounting

**PG11 SOCKET**



11-pin socket with screw terminals on the back

**XAMPDH MEMBRANE**



Silicone protective membrane

**TC11 BLANKING COVER**



Blanking cover for 48 × 48 mm panel cutout