# Double channel astronomical time switch RD-TPA2

## Features

- Digital time switch with astronomical program
- 10 year power reserve(lithium battery).
- Sealable cover of the front panel, easy setting by 4 keys.
- Automatic summer/winter time switchover
- Back-lighted LCD display
- Holiday mode.
- 2 channels version(each channel can be assigned an individual program)
- Automatic transfer of weekdays
- 24-264V AC/DC input supply.
- 2 module Din-rail mounting

## Description

RD-TPA2 astronomical time switch is for realization of time functions in the systems of automatics and steering. It will calculate the sunrise and sunset according to the geographic position and time zone. Night break program can be used to turn off the output at night.
There is an internal battery which can protect real time clock and all the settings when the electric power supply is off.

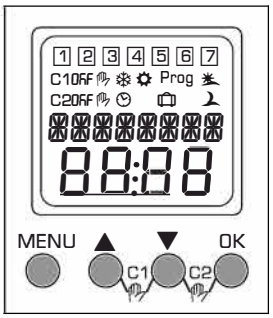
## Technical data

| | |
|---|---|
| Supply terminals | A1-A2 |
| Rated voltage | AC/DC 24-264V |
| Rated frequency | 50/60Hz, 0 |
| Power consumption | 2W |
| Supply volltage tolerance | ±10% |
| Number of channels | 2 |
| Program | astronomical |
| Mode of work | manual, automatic, holiday, |
| Summer/winter time | off, automatic changeover |
| Time tolerance | ≤1s/day at 20°C |
| Power reserve | 10 year |
| Data readout | LCD display, with back light |
| Number of contacts | 2 C/O |
| Current of contacts | 16A/250V AC1 |
| Switching capacity | 4000VA/AC, 384W/DC |
| Mechanical life | $10^6$ |
| Electrical life | $10^5$ |
| Rated insulation voltage | 250V |
| Protection degree | IP20 |
| Pollution degree | 3 |
| Altitude | ≤2000m |
| Ambient temperature | -30°C~55°C |
| Permissable relative humidity | ≤50% at 40°C(without condensation) |
| Storage temperature | -30°C~70°C |
| Wire size | 1mm²~ 4mm² |
| Tightening torque | 0.5Nm |
| Mounting | TH-35 Rail(EN60715) |
| Standard | EN/IEC60730-1, EN/IEC60730-2-7 |

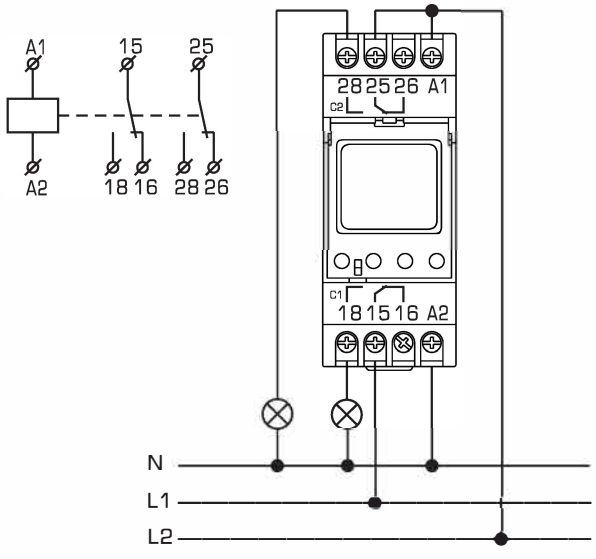
**Maximum pilotable power**

| | | | | |
|---|---|---|---|---|
| 2300W | 2300W | 1000W | 500W | 500W |

## Front-face panel




### Symbol legend

1 2 3 4 5 6 7 — Days of the week Monday, Tuesday, ...Sunday
C1 — Channel 1
C2 — Channel 2
On OFF — Relay status
— Automatic mode
— Manual mode
— Holiday mode
— Sunrise
— Sunset
— Winter time
— Summer time
Prog — Program setting

## Wiring diagram