

ADELID®

ZSM-A1

5900378911821

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Astronomical time switch



1. Description

ZSM-A1 series astronomical time switch is for realization of time functions in the systems of automatics and steering. Night break program can be used to turn off the output at night, set the offset times and operation time of sunrise and sunset. There is an internal battery which can protect real time clock and all the settings when the electric power supply is off.

2.Features

- Digital time switch with astronomical program
- 3 or 10 years power reserve (lithium battery).
- Sealable cover of the front panel, easy setting by 4 keys.
- Automatic summer/winter time switchover
- LCD display
- Holiday mode.
- Single or double channel
- Automatic transfer of weekdays
- Double-module, mounted on TH-35 rail.

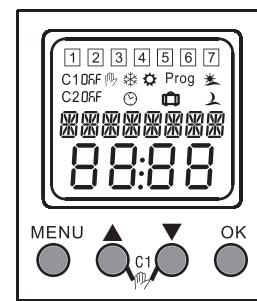
3.Safety instructions

1. The device must be installed by a qualified person.
2. Disconnect all power before working on the device. Don't touch any terminal when the power is ON.
3. Verify correct terminal connection when wiring.
4. Don't dismantle or repair the device whether it works normally, otherwise no responsibility is assumed by producer or seller.
5. Never use the device at the site which can be invaded by corrode gas, strong sunshine light and rain.
6. Clean the device with a dry cloth.
7. Fail to follow these instructions will result in serious injury or death.

4.Technical data

| | |
|-------------------------------|-------------------------------------|
| Models | ZSM-A1 |
| Supply terminals | A1-A2 |
| Rated voltage | AC220-240V |
| Rated frequency | 50/60Hz |
| Power consumption | 1W |
| Supply voltage tolerance | ±10% |
| Number of channels | 1 |
| Program | astronomical |
| Mode of work | manual, automatic, holiday, |
| Summer/winter time | off, automatic changeover |
| Time tolerance | ±1s/day at 20°C |
| Power reserve | 3 years |
| Data readout | LCD display |
| Number of contacts | 1 C/O |
| Current of contacts | 16A/250V AC1 |
| Switching capacity | 4000VA/AC, 384W/DC |
| Mechanical life | 10 ⁶ |
| Electrical life | 10 ⁶ |
| Rated insulation voltage | 250V |
| Protection degree | IP20 |
| Pollution degree | 3 |
| Altitude | ≈2000m |
| Ambient temperature | -30°C~55°C |
| Permissible relative humidity | ≈50%(40°C, without condensation) |
| Storage temperature | -30°C~70°C |
| Wire size | 1mm ² ~ 4mm ² |
| Tightening torque | 0.5Nm |
| Mounting | TH-35 Rail(EN60715) |
| Standard | EN60730-1/EN60730-2-7 |

5.Display and keys



Symbol legend

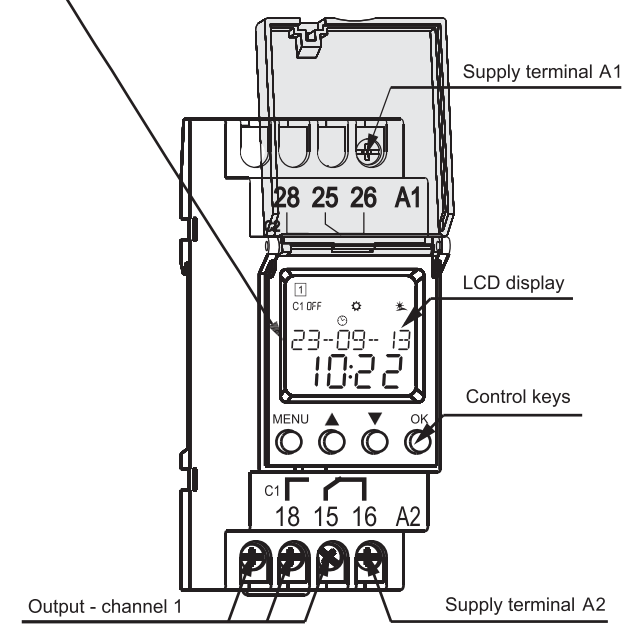
- 1 2 3 4 5 6 7 — Days of the week Monday, Tuesday, ... Sunday
- C1 — Channel 1
- ☀ — Sunrise
- ☿ — Relay status
- ☾ — Sunset
- ⊙ — Automatic mode
- ☼ — Winter time
- ☽ — Manual mode
- ☀ — Summer time
- ☾ — Holiday mode
- Prog — Program setting

Backlight display

After the external power supply is applied and then press any of four keys, the backlight display will be illuminated. Otherwise, only symbols are displayed on the screen.

| | | | |
|------|------------------------------|----|------------------------------|
| MENU | ○ Enter main menu | OK | ○ Confirm selection |
| ▲ | ○ Back to main menu | ◀ | ○ Select menu |
| ▼ | ○ Select menu | ▶ | ○ Decrease a numerical value |
| ▲ | ○ Increase a numerical value | ▶ | ○ Select menu |
| ▶ | ○ C1 manual operation | ▶ | ○ Decrease a numerical value |

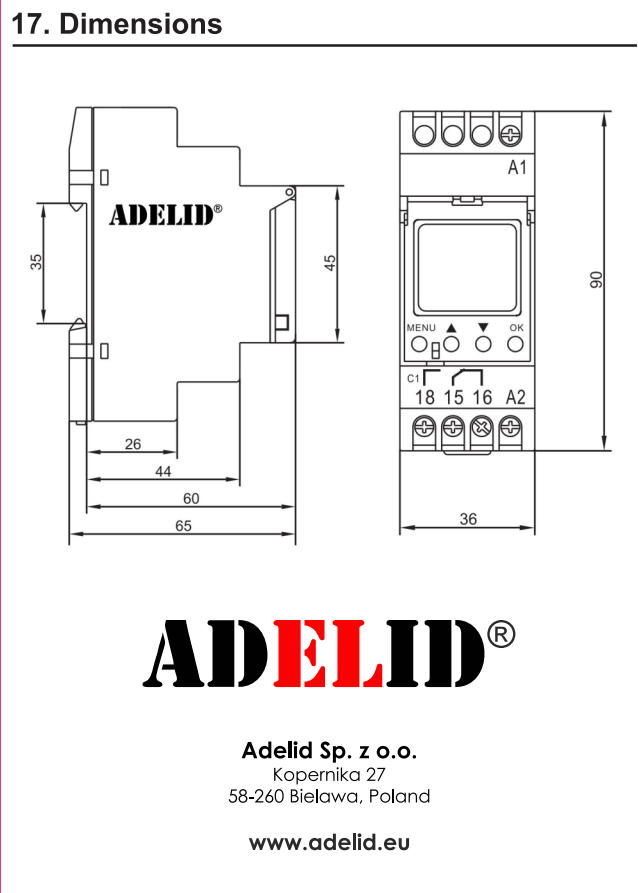
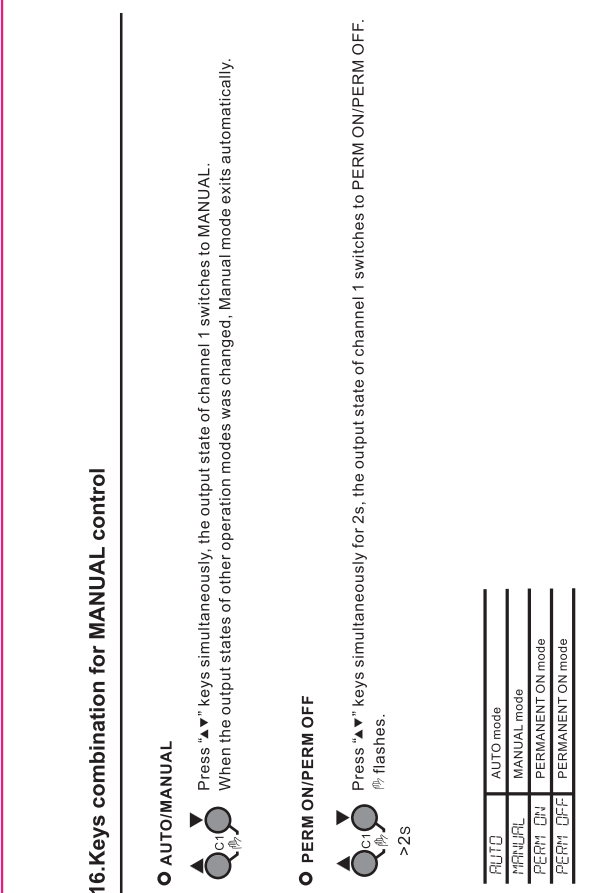
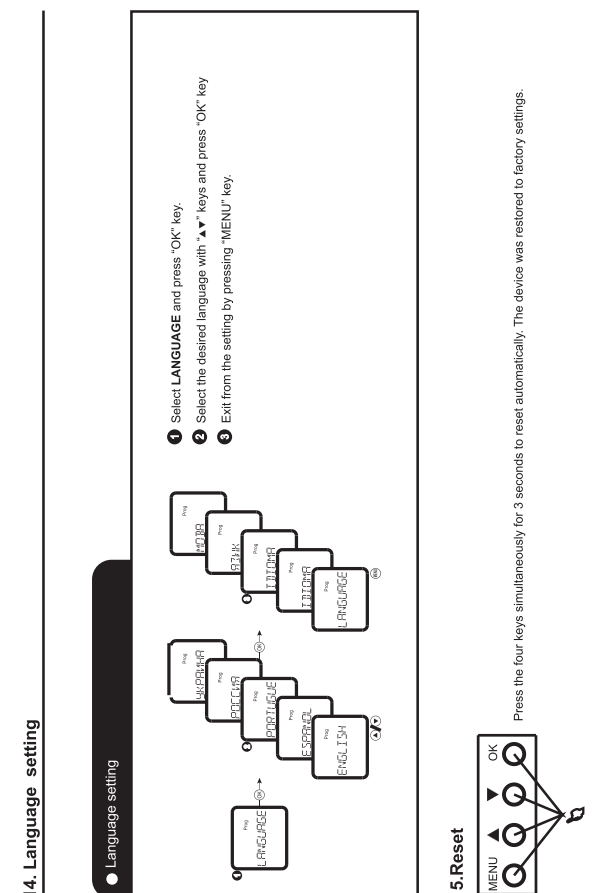
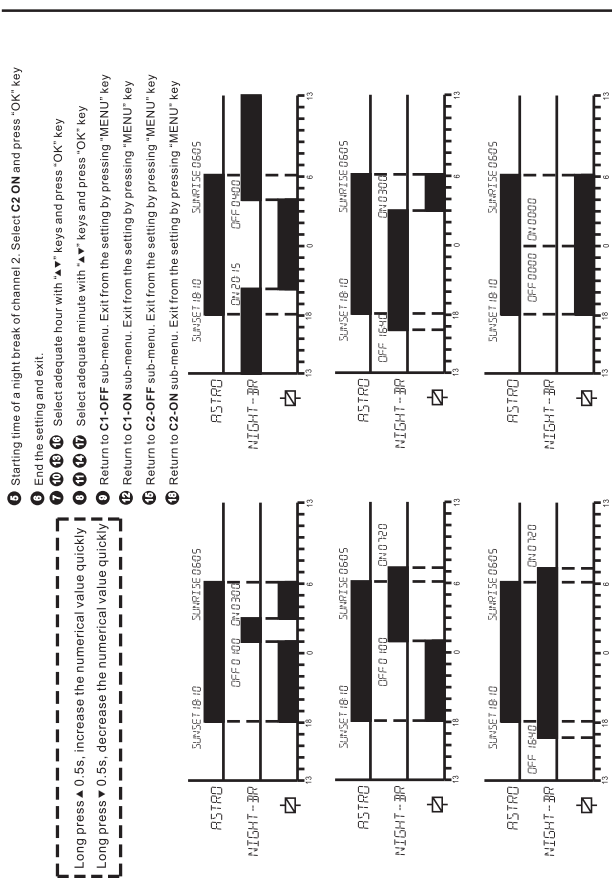
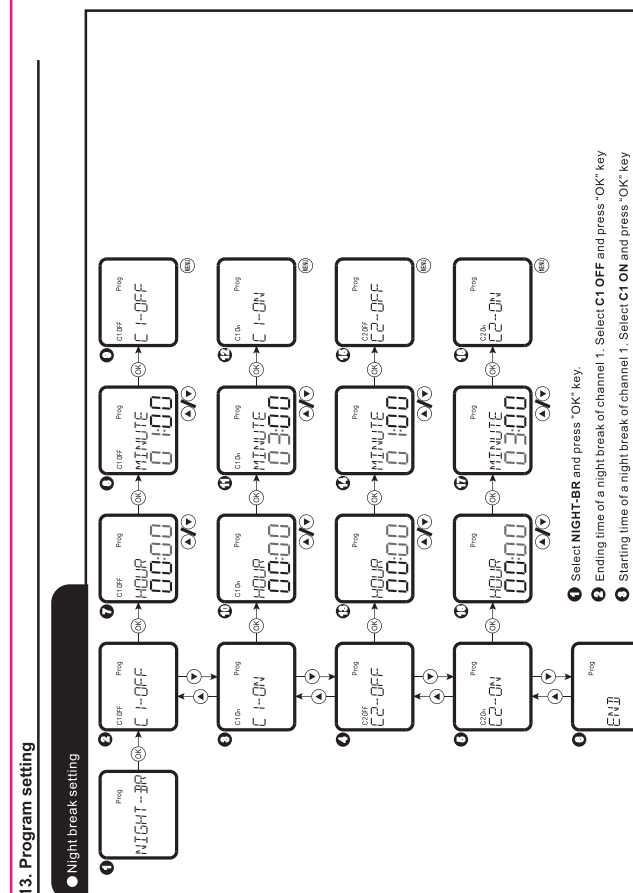
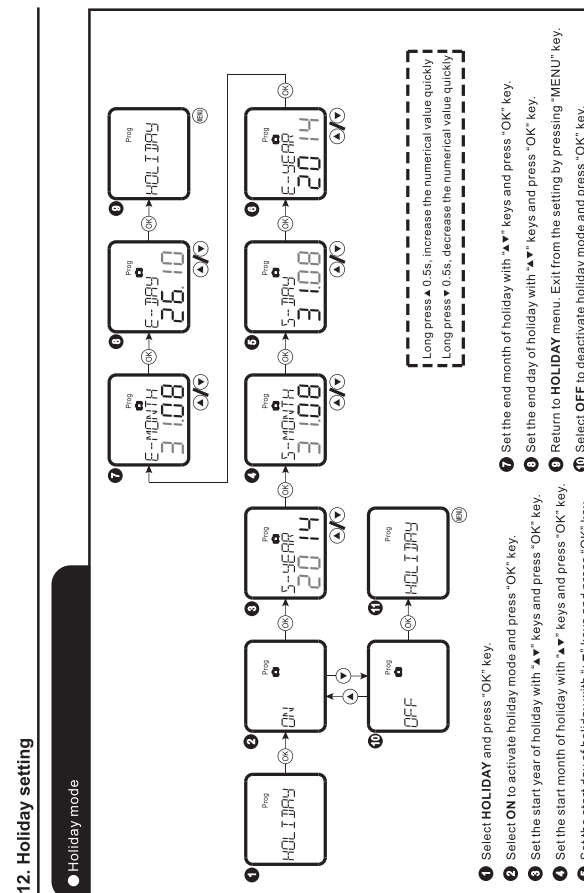
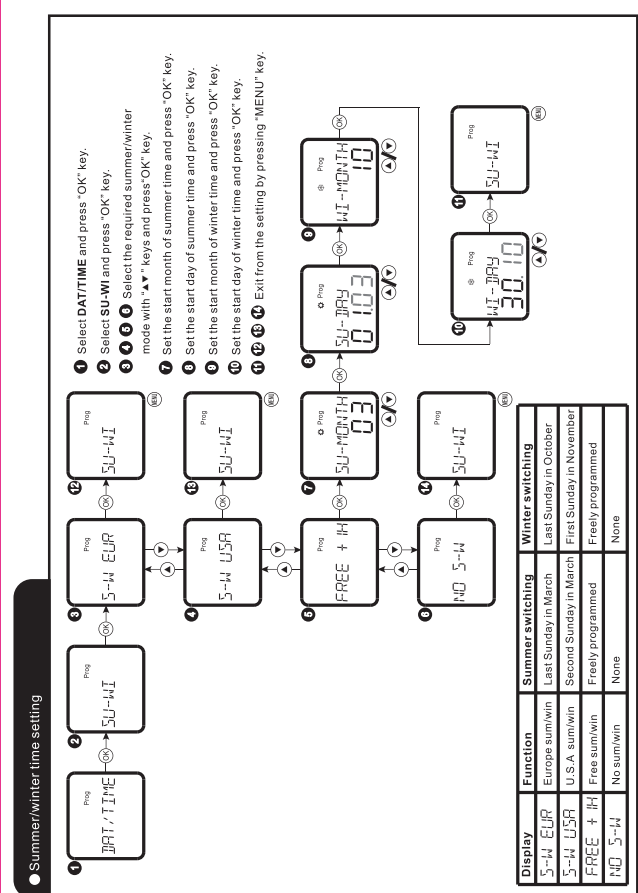
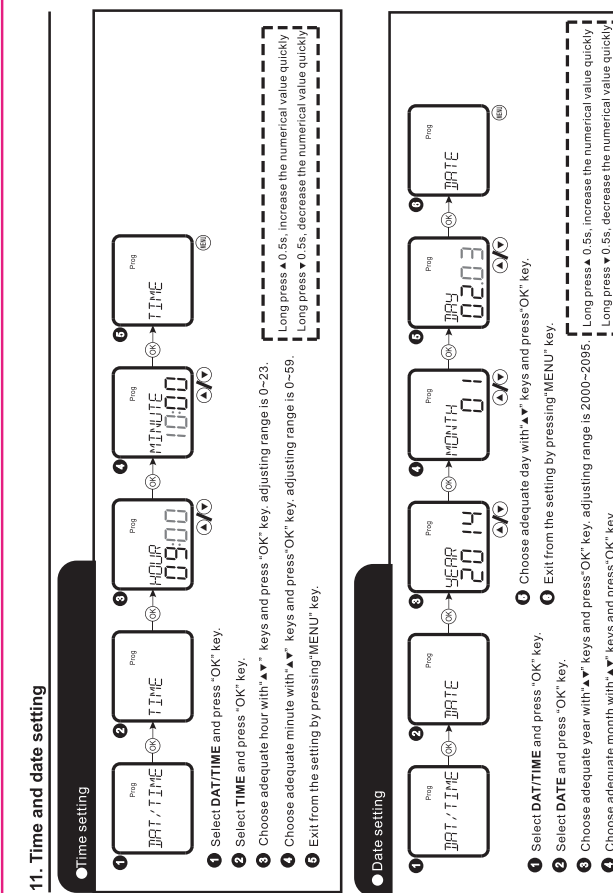
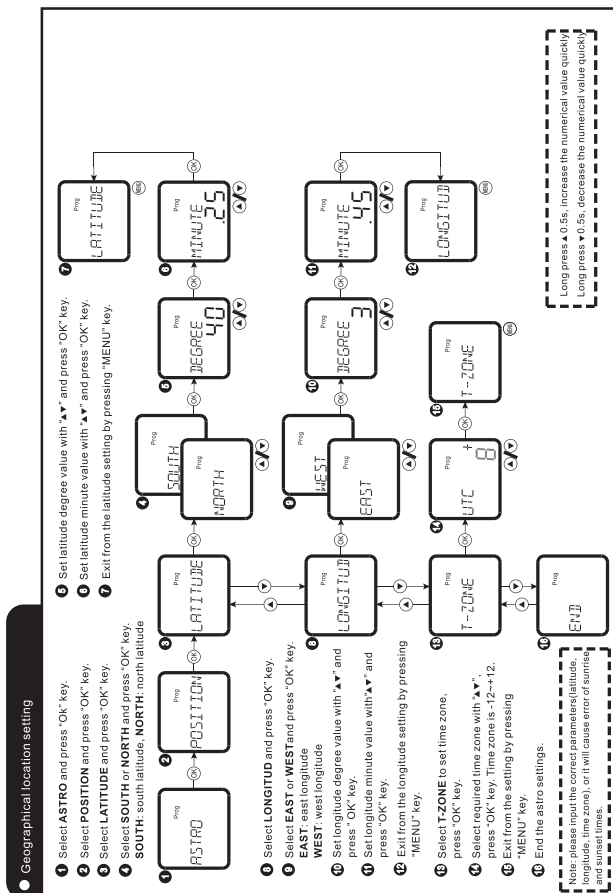
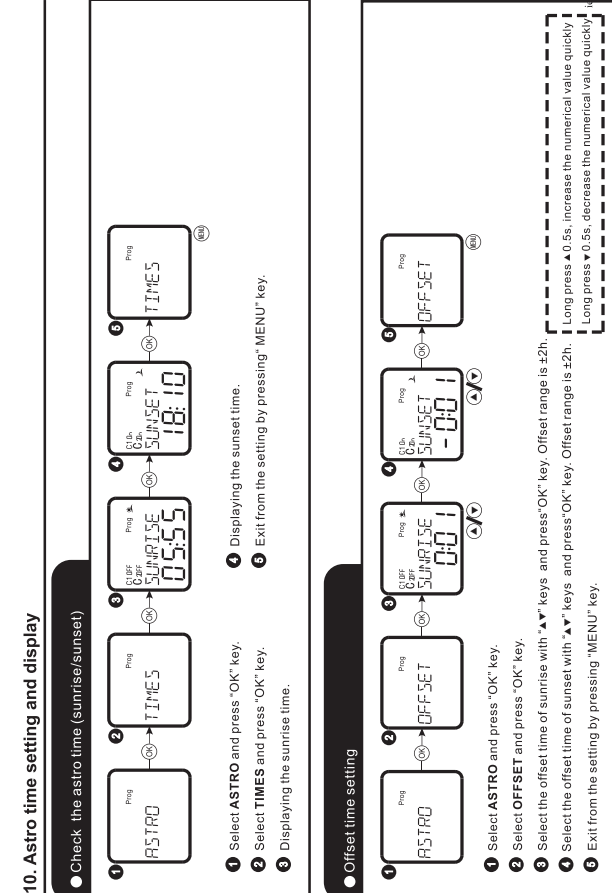
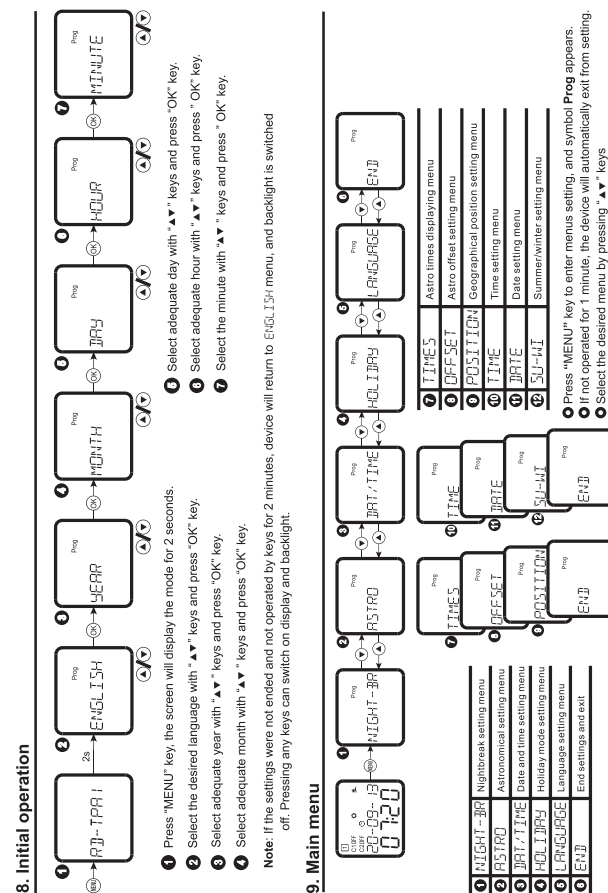
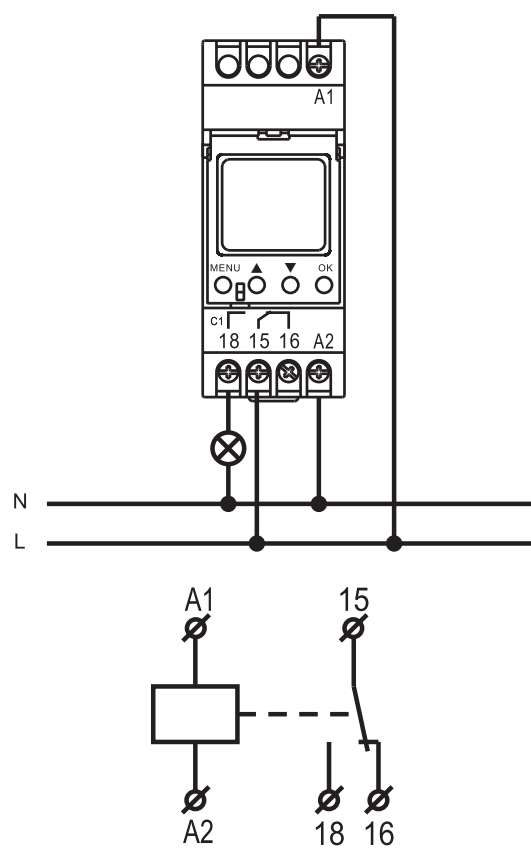
23-09-13 : DD-MM-YY, 23th. September. 2013



6.Maximum pilotable power

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

7. Wiring diagram



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