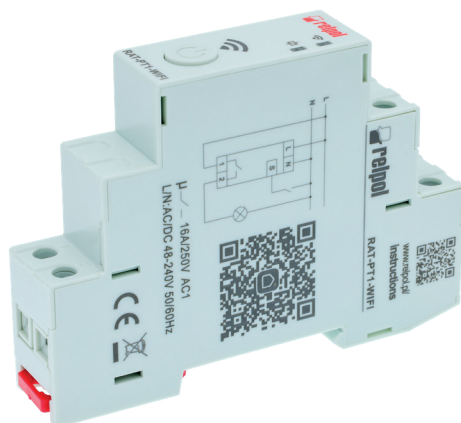


RAT-PT1-WIFI

digital astronomical timers



- Wi-Fi and BLE standard: IEEE 802.11 b/g/n, BLE 4.2 low power
- Data security: WEP, WPA/WPA2, WPA/WPA2 PSK (AES)
- Configuration via app in the TUYA ecosystem
- Single channel
- AC/DC input voltage
- Housing: installation module, 18 mm wide
- Direct mounting on 35 mm rail acc. to EN 60715
- Compliant with EN 60730-1, EN 60730-2-7
- Approvals, directive certificates: RoHS, CE

Digital astronomical timers – for time functions in automation and control systems; automatically calculate sunrise and sunset times based on the set geographic position and time zone; the night-break program can be used to switch the output off at night.

Output circuit – contact data

Number and type of contacts		1P (1 changeover)
Rated load	AC1	16 A / 250 V AC
Rated continuous current		16 A
Max. breaking capacity	AC1	4 000 VA
	DC1	384 W

Input circuit – supply

Rated voltage	AC: 50/60 Hz AC/DC	24...240 V	terminals (+)A1, (-)A2
Operating range of supply voltage		0.9...1.1 U _n	
Rated power consumption		1 W	
Supply frequency range	AC	48...63 Hz	

Other data

Electrical life	• in category AC1	10 ⁵	16 A, 250 V AC
Mechanical life (cycles)		10 ⁶	
Dimensions (a × b × h)		90 × 18 × 65 mm	
Ambient temperature (non-condensing and/or icing)	• storage • operation	-20...+55 °C -20...+60 °C	
Degree of protection (housing)		IP 20	acc. to EN 60529
Insulation pollution degree		3	
Relative humidity		up to 50%	at 40 °C (non-condensing)
Operating altitude		0...2 000 m	

Programming circuit data

Programs	App in the TUYA ecosystem		
Operating modes	automatic		
Summer/winter time	off, automatic changeover		
Setting accuracy	≤ 1 s/day	at 25 °C	
Data readout	smartphone/tablet app		

30.09.2026

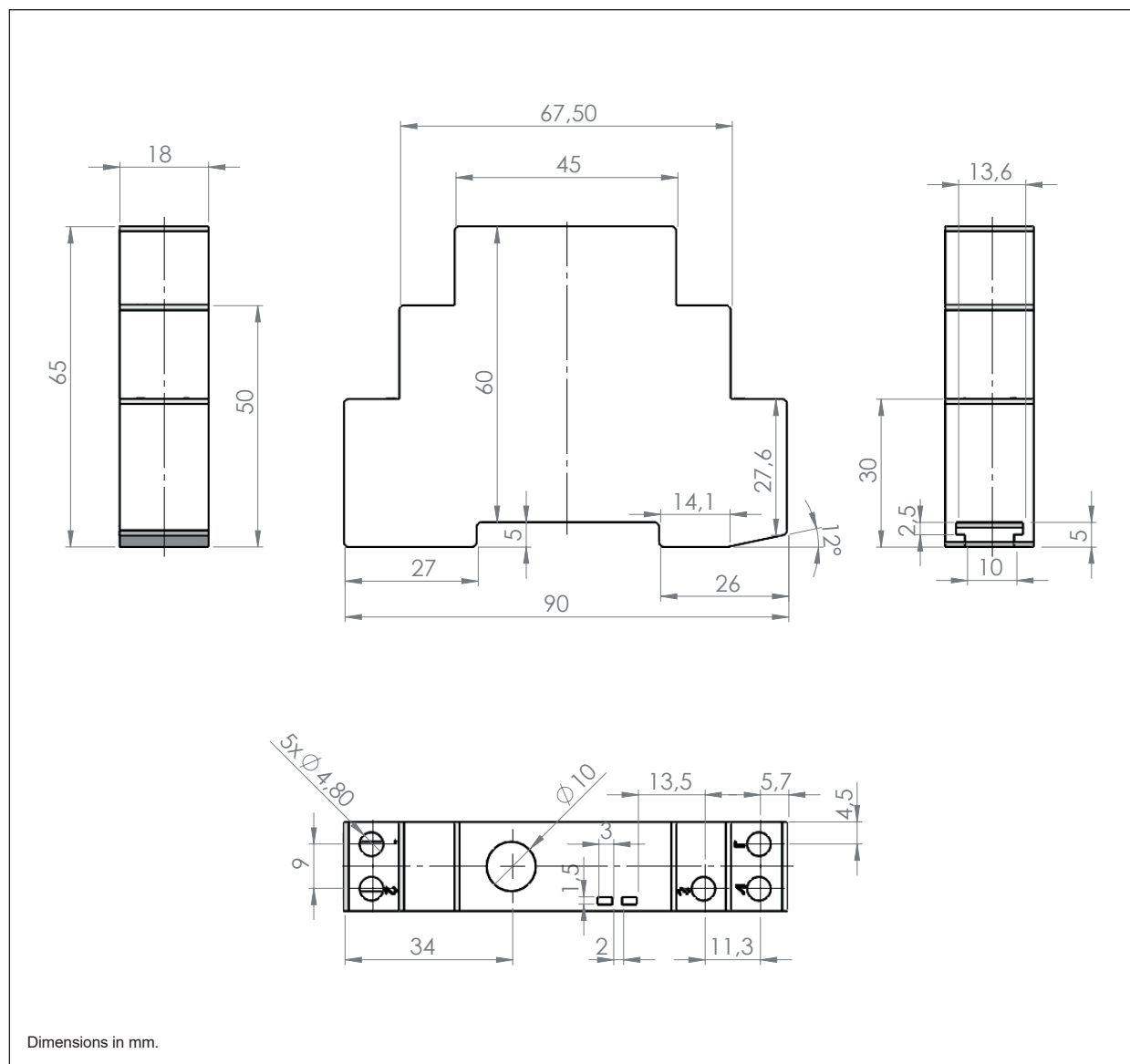
Description

RAT-1PT-WIFI digital astronomical timers are used to switch lighting or other electrical loads on and off according to sunset and sunrise, with an option to program a night break, i.e. a temporary switch-off of the loads to save energy.

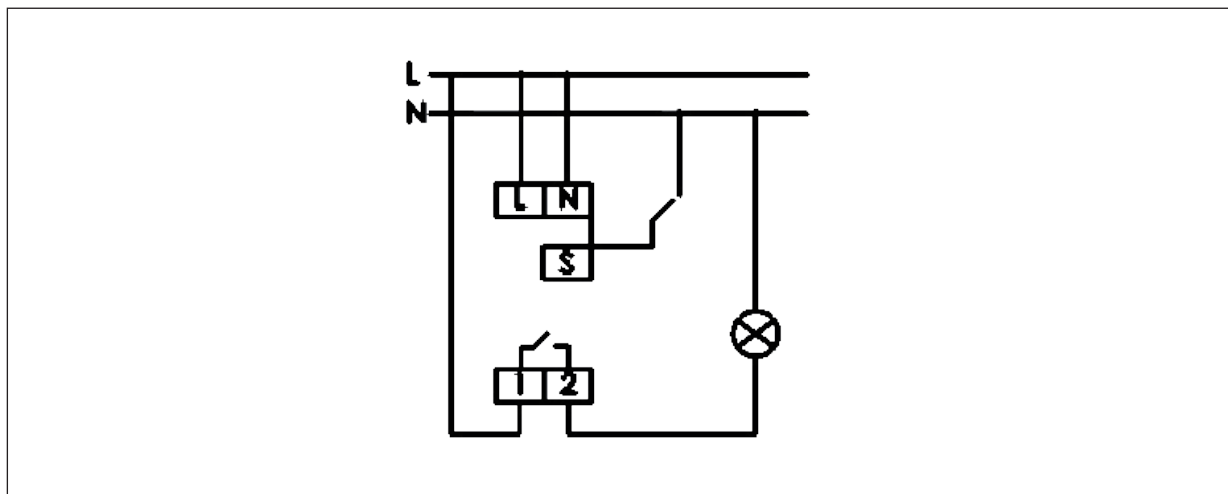
Hardware and software resources:

- initial setup: selecting the language, setting the year, month, day, hour and minute,
- selecting the main menu,
- setting and displaying astronomical time: checking astronomical time (sunrise/sunset), setting the time offset, setting the geographic position,
- setting time and date: setting the time, setting the date, setting summer/winter time,
- setting holiday mode,
- programming: setting the night break,
- setting the language.

Dimensions and description



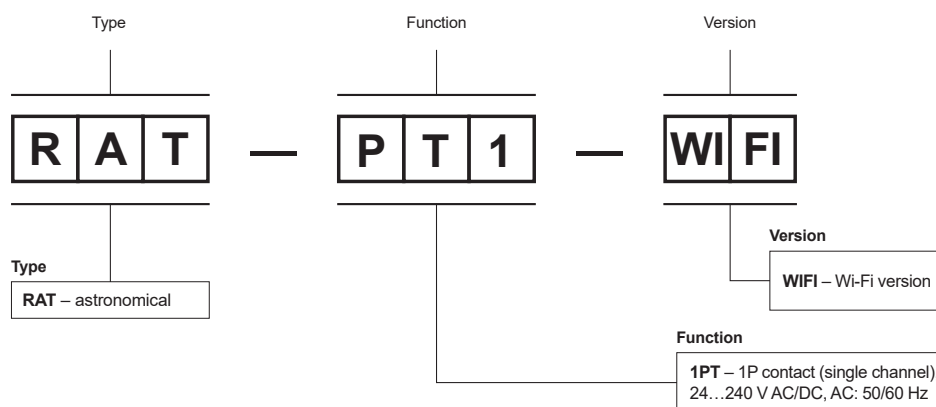
Connection diagram



Mounting

RAT-PT1-WIFI timers are designed for direct mounting on a 35 mm rail acc. to EN 60715. Operating position: vertical. Connections: max. wire cross-section 1...4 mm² (17...12 AWG), wire stripping length 6.5 mm, max. terminal tightening torque 0.5 Nm.

Ordering codes



Coding example:

RAT-PT1-WIFI

digital astronomical timer **RAT-PT1-WIFI**, operated via a smartphone/phone app, one changeover contact (single channel), rated input voltage 24...240 V AC/DC, AC: 50/60 Hz

PRECAUTIONS:

1. Ensure that the parameters of the product described in its specification provide a safety margin for the appropriate operation of the device or system and never use the product in circumstances which exceed the parameters of the product. 2. Never touch any live parts of the device. 3. Ensure that the product has been connected correctly. An incorrect connection may cause malfunction, excessive heating or risk of fire. 4. In case of any risk of any serious material loss or death or injuries of humans or animals, the devices or systems shall be designed so to equip them with double safety system to guarantee their reliable operation.