

## TWILIGHT SWITCHES

### paladin 972 413 pro



### Overview

- Digital twilight switch with daily program
- Up to 30 permanent switchings by date
- DIN-rail mounting 35mm
- 1 channel
- Switch off by time and duration / Switch on by time and duration (e.g. for energy saving)
- Adjustable lux threshold (1–50,000 Lux)
- Adjustable delay times
- Adjustable light-hysteresis
- 30 memory locations
- 10 years battery-reserve
- Minimum interval 1 min.
- Switching capacity 16 A
- Manual permanent mode
- Manual override
- Automatic sorting of switching times on readout
- Fully automatic daylight saving time
- Elapsed time and pulse counter
- Advance warning function
- Security by PIN-Code
- Illuminated display
- Text based menu
- Display with a large dot matrix area to provide two high resolution text lines
- Easy handling
- Quick and intuitive programmable time switch
- Unlimited program security by E<sup>2</sup>-PROM

### Highlights

- Ideal for modern lamps [LED, CFL, etc.]
- Up to 30 permanent switchings by date or with Easter function

### Order numbers

■ **paladin**

972 413 pro 1 channel version

# TWILIGHT SWITCHES

## paladin 972 413 pro

### Order information

	Voltage	EAN	Art. No.
<b>972 413 pro</b>	230 V 50-60 Hz	4022709230492	23049

### Technical data

Supply voltage	230 V, 50–60 Hz
Power consumption (real power)	0,8–1,8 W (depending on the switching status)
Channel (potential-free)	Change-over, contact gap < 3 mm (μ)
Contact material	AgSnO <sub>2</sub>
Switching capacity	
resistive load:	16 A / 250 V~ at cosφ=1
inductive load:	6 A bei at cosφ=0,6
Min. switching power	1.000 mW (10 V / 10 mA)
Max. starting current	50 A
Filament Lamp, Halogen Lamp	2.000 W
Fluorescent Lamp with electron. lamp ballast	1.000 W
Fluorescent Lamp with convent. lamp ballast	750 W
LED (230 V~) / CFL	400 W
Switching functions	Lux; Night OFF; Day ON
Adjustable lux threshold	1–50.000 Lux
Adjustable delay times	00:01 bis 59:59 mm:ss
Adjustable light-hysteresis	0–50%
Memory locations	30
Minimum interval	1 min.
Time base	Quartz
Quartz accuracy (at 20 °C)	≤ ±0,5 sec./day (Quartz accuracy optimized for typical ambient conditions)
Power back-up (at 20 °C)	approx. 10 years (depends on the Lithium-battery life)
Program security	unlimited (E <sup>2</sup> -PROM)
Display	high resolution LCD (visible area 7.5 cm <sup>2</sup> )
Permitted ambient temperature	Sensor unit –30...+55 °C Control unit –30...+55 °C
Housing	self-extinguishing thermoplastic
Dimensions	45 x 35 x 58 mm
Mounting	35 mm DIN-rail
Type of connection	Screw terminals (pull-up type)
Type of protection	Sensor unit IP 54 to DIN EN 60529 Control unit IP 20 to DIN EN 60529
Class of protection	II when installed according to regulations

Rights to technical amendments reserved / Technische Änderungen vorbehalten  
Droits de modifications techniques réservés / Suscettibile di errori e modifiche

