

*lux*year



illuminate

## 972 4x4 pro

- 1 or 2 channels
- Twilight switch with daily, weekly and yearly program
- 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
- 60 memory locations
- 10 years battery-reserve
- Minimum interval 1 min.
- Switching capacity channel A = 16 A (Switching capacity channel B = 10 A)
- Up to 60 permanent switchings by date
- 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
- External input (within the one channel version)
- Security by PIN-Code
- Illuminated display
- Data-key function

### Further information / Accessory

**Accessory: Data-key DK pro and Programming package PP 50 pro / PP 60 pro**  
(not included in delivery of the time switch)



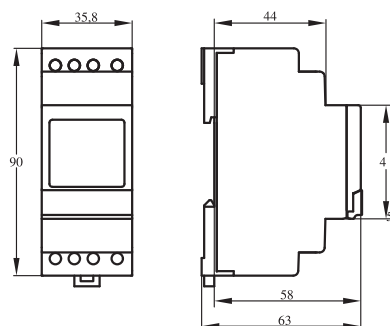
### Highlights

- Yearly program with Easter function
- Up to 60 permanent switchings by date or with Easter function
- Text based menu and self-explanatory symbols
- Display with a large dot matrix area to provide two high resolution text lines
- Easy handling. Quick and intuitive programmable time switch
- Can be programmed with supply disconnected
- Unlimited program security by E<sup>2</sup>-PROM
- Programmable with PC (Accessory Data-key DK pro and Programming package PP 50 pro / PP 60 pro)

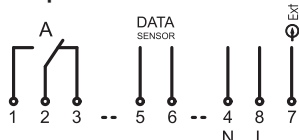
## Digital twilight switches 972 4x4 pro

for DIN-rail mounting

### Technical data



972 414 pro



972 424 pro



<b>Supply voltage</b>	230 V, 50–60 Hz
<b>Power consumption (real power)</b>	0.8–1.8 W (depending on the switching status)
<b>Channel</b>	Channel A: Change-over (potential free) (Channel B: Change-over (potential of supply voltage)) Normally open, contact gap < 3 mm (μ)
<b>Contact material</b>	AgSnO <sub>2</sub>
<b>Switching capacity per channel</b>	Channel A: 16 (6) A / 250 V~ (Channel B: 10 (4) A / 250 V~)
<b>Min. switching power</b>	1,000 mW (10 V / 10 mA)
<b>Max. starting current</b>	50 A
<b>Filament Lamp, Halogen Lamp</b>	2,000 W
<b>Fluorescent Lamp with electron. lamp ballast</b>	1,000 W
<b>Fluorescent Lamp with convent. lamp ballast</b>	750 W
<b>LED (230 V~) / CFL</b>	400 W
<b>Switching functions</b>	Lux; Night OFF; Day ON; yearly program
<b>Adjustable lux threshold</b>	1–50,000 Lux
<b>Adjustable delay times</b>	00:01 up to 59:59 mm:ss
<b>Adjustable light-hysteresis</b>	0–50 %
<b>Memory locations</b>	60
<b>Minimum interval</b>	1 min.
<b>Time base</b>	Quartz
<b>Quartz accuracy (at 20°C)</b>	≤ ±0.5 sec./day (Quartz accuracy optimized for typical ambient conditions)
<b>Power back-up (at 20°C)</b>	approx. 10 years (depends on the Lithium-battery life)
<b>Program security</b>	unlimited (E <sup>2</sup> -PROM)
<b>Display</b>	high resolution LCD (visible area 7.5 cm <sup>2</sup> )
<b>Permitted ambient temperature</b>	Sensor unit –30°...+55°C Control unit –30°...+55°C
<b>Housing</b>	self-extinguishing thermoplastic
<b>Dimensions</b>	45 x 35 x 58 mm
<b>Mounting</b>	35 mm DIN-rail
<b>Type of connection</b>	Screw terminals (pull-up type)
<b>Type of protection</b>	Sensor unit IP 54 to DIN EN 60529 Control unit IP 20 to DIN EN 60529
<b>Class of protection</b>	II when installed according to regulations
<b>Accessories (not included in delivery)</b>	Data-key DK pro, Programming package PP 50 pro / PP 60 pro

\* Lamp load channel B approx. 60% of the values of channel A

Order number	Channels	Special function
paladin 972 414 pro	1	External input, yearly program
paladin 972 424 pro	2	Yearly program

▣ Housing colour