

year



reddot design award
honourable mention 2009

SC 28.19 *pro*

[paladin 172 419 *pro*]

- 1 channel
- Daily, weekly and yearly program
- 300 memory locations
- 10 years battery-reserve
- Minimum interval 1 min.
- Switching capacity 16 A per channel
- Permanent by date / holiday function
- Manual permanent mode
- Manual override
- Automatic sorting of switching times on readout
- Unrestricted block programming
- Fully automatic daylight saving time
- Elapsed time and pulse counter
- Pulse function
- Cycle function
- Timer function
- Channel button function
- DCF function
- Security by PIN-Code
- Illuminated display
- Compact 35 mm wide housing
- Data-key function

Further information / Accessory

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



Accessory: Radio Receiver DCF-Time FU 20.00 *pro*
(not included in delivery of the time switch)



Accessory: Radio Receiver GPS-Time FU 3x.00 *pro*
(not included in delivery of the time switch)



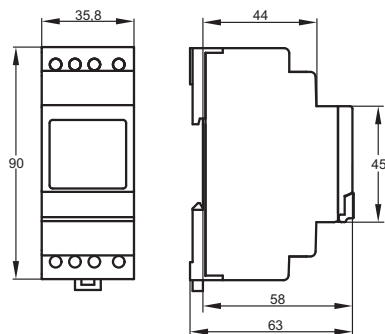
Comparable products ...

SC 98.x0 *pro* / paladin 179 6x0 *pro* with additional features:
4 TE, 1–4 channel version, external input

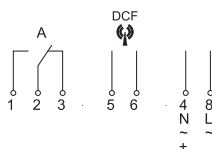
Highlights

- Yearly program with Easter function, Weekday function and Extra-switching-time 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 E²-PROM
- Programmable with PC
(Accessory Data-key DK *pro* and Programming package PP 50 *pro*)

Digital time switch SC 28.19 *pro* [paladin 172 419 *pro*] for DIN-rail mounting



SC 28.19 *pro* / paladin 172 419 *pro*



Technical data

| | |
|--|--|
| Supply voltage | 230 V, 50–60 Hz other voltages on request |
| Power consumption (real power) | 1.4–1.9 W (depending on the switching status) |
| Channel (potential-free) | Change-over, contact gap < 3 mm (μ) |
| Contact material | AgSnO ₂ |
| Switching capacity | 16 A / 250 V~ at cosφ=1 6 A with inductive load cosφ=0.6 |
| Min. switching power | 1,000 mW (10 V / 10 mA) |
| Max. starting current | 50 A |
| Filament Lamp | 2,000 W |
| Halogen Lamp | 2,000 W |
| Fluorescent Lamp uncompensated | 1,000 VA |
| Fluorescent Lamp series compensated | 1,000 VA |
| Fluorescent Lamp parallel compensated | 550 VA |
| Fluorescent Lamp double switch | 1,000 VA |
| Mercury Discharge Lamp uncompensated | 4 x 125 W, 2 x 250 W, 1 x 400 W, 1 x 700 W |
| Mercury Discharge Lamp parallel compensated | 6 x 50 W (7 μF), 4 x 125 W (10 μF), 2 x 250 W (18 μF), 1 x 400 W (25 μF), 1 x 700 W (40 μF) |
| Sodium Discharge Lamp uncompensated | 2 x 250 W, 1 x 400 W |
| Sodium Discharge Lamp parallel compensated | 2 x 150 W (20 μF), 1 x 250 W (32 μF), 1 x 400 W (45 μF) |
| Compact Fluorescent Lamp convent. lamp ballast | 1,000 VA |
| Compact Fluorescent Lamp electron. lamp ballast | 4 x electronic lamp ballast, power independent |
| Switching functions | ON; OFF; pulse; cycle; yearly program |
| Pulse length Pulse function (switching time) | 00:01 up to 59:59 mm:ss |
| Pulse length Timer (man. switching) | 0:00:01 up to 9:59:59 h:mm:ss |
| Pulse/Pause length Cycle | 0:00:01 up to 9:59:59 h:mm:ss |
| Memory locations | 300 |
| Minimum interval | 1 min. |
| Time base | Quartz or DCF / GPS (FU 20.00 <i>pro</i> / FU 3x.00 <i>pro</i>) |
| Power back-up (at 20°C) | approx. 10 years (depends on the Lithium-battery life) |
| Program security | unlimited (E ² -PROM) |
| Quartz accuracy (at 20°C) | ≤ ±0.5 sec./day |
| Display | high resolution LCD (visible area 7.5 cm ²) |
| Permitted ambient temperature | –30°...+55°C |
| Enclosure | self-extinguishing thermoplastic |
| Dimensions | 45 x 35 x 58 mm |
| Distribution board mounting | 35 mm DIN-rail (DIN EN 60715) |
| Type of connection | Screw terminals (pull-up type) |
| Type of protection | IP 20 to DIN EN 60529 |
| Class of protection | II when installed according to regulations |
| Accessories (not included in delivery) | Data-key DK <i>pro</i> , Radio Receiver FU 20.00 <i>pro</i> / FU 3x.00 <i>pro</i> , programming package PP 50 <i>pro</i> |
| Certification mark | VDE |

Overview time switch functions

| | Switching time | Channel-key |
|-------------------|----------------|-------------|
| ON/OFF | ✓ | ✓ |
| Permanent | ✓ | ✓ |
| Pulse | ✓ | |
| Timer | | ✓ |
| Cycle | ✓ | ✓ |
| Astro | | |
| Permanent by date | ✓ | |
| Yearly program | ✓ | |

| Order number | Channels | Time base | Special function |
|--|----------|------------|------------------|
| SC 28.19 <i>pro</i> / paladin 172 419 <i>pro</i> | 1 | Quartz/DCF | Yearly program |

▼ Housing colour

