



reddot design award
honourable mention 2009

SC 28.X3 *pro* astr-ö [paladin 172 4X3 *pro*]

- 1 or 2 channels
- Daily and weekly program
- Astro program
- 60 memory locations
- 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
- Security by PIN-Code

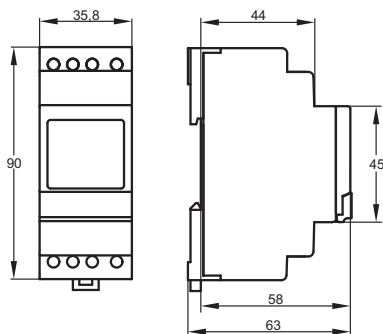
Comparable products ...

SC 28.X4 *pro* / paladin 1724X4 *pro* with additional features:
100 memory locations, Data-key function, Timer function,
Advanced warning function, External input function, illuminated display

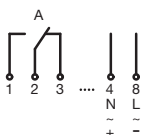
Highlights

- Astro program
- 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 (6 years battery-reserve)
- Unlimited program security by E²-PROM

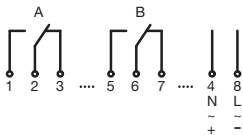
Digital time switch SC 28.X3 *pro* for DIN-rail mounting [paladin 172 4X3 *pro*]



SC 28.13 *pro* / paladin 172 413 *pro*
(1 channel)



SC 28.23 *pro* / paladin 172 423 *pro*
(2 channels)



Technical data

| | |
|--|---|
| Voltages | 230 V, 50–60 Hz other voltages on request |
| 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 ₂ |
| Switching capacity per channel | 16 A / 250 V~ at cosφ=1 6 A with inductive load cosφ=0.6 |
| Min. switching power | 1000 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 | Astro ON/OFF; Night ON/OFF; Extra ON/OFF |
| Offset Astro switching time | +/- 90 min |
| Memory locations | 60 |
| Minimum interval | 1 min |
| Time base | Quartz crystal |
| Power back-up (at 20°C) | approx. 10 years (depends on the Lithium-battery life) |
| Program security | unlimited (E ² -PROM) |
| Quartz crystal accuracy (at 20°C) | ≤ ±0.5 sec/day (in normal use) |
| 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 |
| 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 28.13 <i>pro</i> / paladin 172 413 <i>pro</i> | 1 | Quartz | Astro |
| SC 28.23 <i>pro</i> / paladin 172 423 <i>pro</i> | 2 | Quartz | Astro |

Housing colour