

week



reddot design award  
honourable mention 2009

## SC 28.X2 *pro*

[paladin 172 4X2 *pro*]

- 1 or 2 channels
- Daily and weekly program
- 100 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
- Pulse function
- Cycle function
- Timer function
- External input (within the one channel version)
- Channel button function
- Security by PIN-Code
- Illuminated display
- 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)



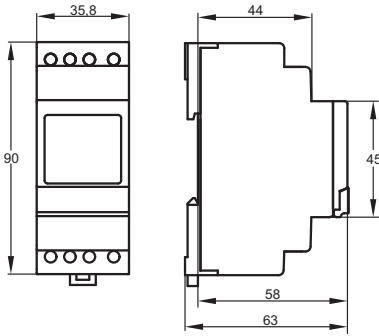
### Comparable products ...

**SC 28.19 *pro*** / paladin 172 419 *pro* with additional features:  
yearly program, DCF function

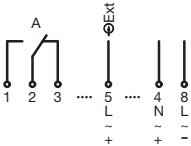
### Highlights

- 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 E<sup>2</sup>-PROM
- Programmable with PC (Accessory Data-key DK *pro* and Programming package PP 50 *pro*)

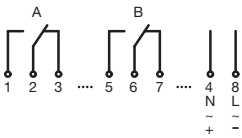
## Digital time switch SC 28.X2 *pro* [paladin 172 4X2 *pro*] for DIN-rail mounting



**SC 28.12 *pro* / paladin 172 412 *pro***  
(1 channel)



**SC 28.22 *pro* / paladin 172 422 *pro***  
(2 channels)



### Technical data

<b>Supply voltage</b>	230 V, 50–60 Hz other voltages on request
<b>Power consumption</b> (real power)	0.8–1.8 W (depending on the switching status)
<b>Channel</b> (potential-free)	Change-over, contact gap < 3 mm (μ)
<b>Contact material</b>	AgSnO <sub>2</sub>
<b>Switching capacity per channel</b>	16 A / 250 V~ at cosφ=1 6 A with inductive load cosφ=0.6
<b>Min. switching power</b>	1000 mW (10 V / 10 mA)
<b>Max. starting current</b>	50 A
<b>Filament Lamp</b>	2,000 W
<b>Halogen Lamp</b>	2,000 W
<b>Fluorescent Lamp uncompensated</b>	1,000 VA
<b>Fluorescent Lamp series compensated</b>	1,000 VA
<b>Fluorescent Lamp parallel compensated</b>	550 VA
<b>Fluorescent Lamp double switch</b>	1,000 VA
<b>Mercury Discharge Lamp uncompensated</b>	4 x 125 W, 2 x 250 W, 1 x 400 W, 1 x 700 W
<b>Mercury Discharge Lamp parallel compensated</b>	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)
<b>Sodium Discharge Lamp uncompensated</b>	2 x 250 W, 1 x 400 W
<b>Sodium Discharge Lamp parallel compensated</b>	2 x 150 W (20 μF), 1 x 250 W (32 μF), 1 x 400 W (45 μF)
<b>Compact Fluorescent Lamp convent. lamp ballast</b>	1,000 VA
<b>Compact Fluorescent Lamp electron. lamp ballast</b>	4 x electronic lamp ballast, power independent
<b>Switching functions</b>	ON, OFF; cycle, pulse
<b>Pulse length Pulse function</b> (switching time)	00:01 up to 59:59 mm:ss
<b>Pulse length Timer</b> (man. switching)	0:00:01 up to 9:59:59 h:mm:ss
<b>Pulse/Pause length Cycle</b>	0:00:01 up to 9:59:59 h:mm:ss
<b>Memory locations</b>	100
<b>Minimum interval</b>	1 min
<b>Time base</b>	Quartz crystal
<b>Power back-up</b> (at 20°C)	approx. 6 years (depends on the Lithium-battery life)
<b>Program security</b>	unlimited (E <sup>2</sup> -PROM)
<b>Quartz cryst. accuracy</b> (at 20°C)	≤ ±1 sec/day
<b>Display</b>	high resolution LCD (visible area 7.5 cm <sup>2</sup> )
<b>Permitted ambient temperature</b>	-30°...+55°C
<b>Enclosure</b>	self-extinguishing thermoplastic
<b>Dimensions</b>	45 x 35 x 58 mm
<b>Distribution board mounting</b>	35 mm DIN-rail (DIN EN 50022)
<b>Type of connection</b>	Screw terminals (pull-up type)
<b>Type of protection</b>	IP 20 to DIN EN 60529
<b>Class of protection</b>	II when installed according to regulations
<b>Accessories</b> (not included in delivery)	Data-key DK <i>pro</i> , programming package PP 50 <i>pro</i>
<b>Certification mark</b>	VDE

### Overview time switch functions

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

Order number	Channels	Time base	Special function
SC 28.12 <i>pro</i> / paladin 172 412 <i>pro</i>	1	Quartz	External input
SC 28.22 <i>pro</i> / paladin 172 422 <i>pro</i>	2	Quartz	

✓ Housing colour