

week



reddot design award  
honourable mention 2009

## SC 28.x1 pro

[paladin 172 4x1 pro]

- 1 or 2 channels
- Daily and weekly program
- 46 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
- 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)



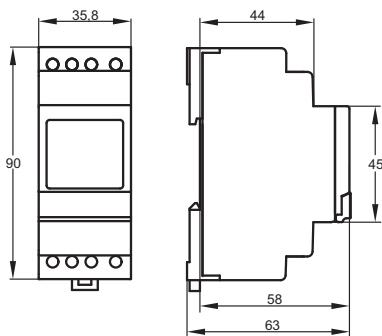
### Comparable products ...

**SC 28.x2 pro / paladin 172 4x2 pro** with additional features:  
100 memory locations, cycle function, external input function

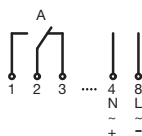
### Highlights

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

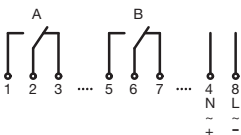
## Digital time switch SC 28.x1 *pro* [paladin 1724x1 *pro*] for DIN-rail mounting



**SC 28.11 *pro* / paladin 172 411 *pro***  
(1 channel)



**SC 28.21 *pro* / paladin 172 421 *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>	AgCdO
<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>	500 mW (10 V / 5 mA)
<b>Max. starting current</b>	30 A
<b>Filament Lamp</b>	1,000 W
<b>Halogen Lamp</b>	1,000 W
<b>Fluorescent Lamp uncompensated</b>	500 VA
<b>Fluorescent Lamp series compensated</b>	500 VA
<b>Fluorescent Lamp parallel compensated</b>	300 VA
<b>Fluorescent Lamp double switch</b>	500 VA
<b>Mercury Discharge Lamp uncompensated</b>	2 x 125 W, 1 x 250 W
<b>Mercury Discharge Lamp parallel compensated</b>	3 x 50 W (7 μF), 2 x 125 W (10 μF), 1 x 250 W (18 μF)
<b>Sodium Discharge Lamp uncompensated</b>	1 x 150 W
<b>Compact Fluorescent Lamp convent. lamp ballast</b>	500 VA
<b>Compact Fluorescent Lamp electron. lamp ballast</b>	2 x electronic lamp ballast, power independent
<b>Switching functions</b>	ON, OFF, pulse
<b>Pulse length Pulse function</b> (switching time)	00:01 up to 59:59 mm:ss
<b>Memory locations</b>	46
<b>Minimum interval</b>	1 min.
<b>Time base</b>	Quartz crystal
<b>Power back-up</b> (at 20°C)	approx. 10 years (depends on the Lithium-battery life)
<b>Program security</b>	unlimited (E <sup>2</sup> -PROM)
<b>Quartz crystal accuracy</b> (at 20°C)	≤ ±0.5 sec./day (in normal use)
<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 60715)
<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
ON/OFF	✓	✓
Permanent	✓	✓
Pulse	✓	
Timer		
Cycle		
Astro		
Permanent by date	✓	
Yearly program		

Order number	Channels	Time base	Special function
SC 28.11 <i>pro</i> / paladin 172 411 <i>pro</i>	1	Quartz	data-key (optional)
SC 28.21 <i>pro</i> / paladin 172 421 <i>pro</i>	2	Quartz	data-key (optional)

↙ Housing colour