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
- Advanced warning 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*
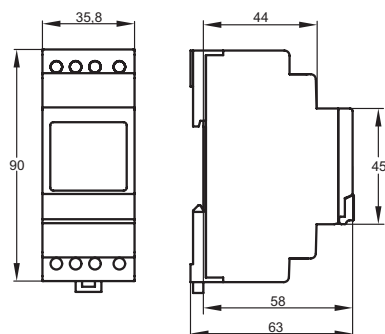(not included in delivery of the time switch)

Comparable products …

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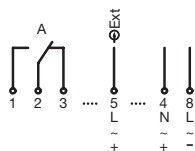yearly program, DCF function

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^2-PROM
- Programmable with PC
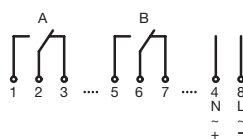 (Accessory Data-key DK *pro* and Programming package PP 50 *pro*)

🔒pin	dcf	astro-	internal intern **100**	year^prog	week^prog	24h^prog	kanal channel **1⇄2**
⏱ timer	lcd	⚠☀☀☀	**2345**h	⊓pulse	€xtern	⊓⊓cycle	data

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

Supply voltage	230 V, 50–60 Hz other voltages on request
Power consumption	approx. 1.5 VA
Channel (potential-free)	Change-over, contact gap < 3 mm (µ)
Contact material	$AgSnO_2$
Switching capacity	16 A / 250 V~ at cosφ=1
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; cycle, pulse
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	100
Minimum interval	1 min
Time base	Quartz crystal
Power back-up (at 20°C)	approx. 6 years (depends on the Lithium-battery life)
Program security	unlimited (E^2-PROM)
Quartz cryst. accuracy (at 20°C)	≦ ±1 sec/day
Display	high resolution LCD (visible area 7.5 cm²)
Permitted ambient temperature	−10°…+55°C
Enclosure	self-extinguishing thermoplastic
Dimensions	45 x 35 x 58 mm
Distribution board mounting	35 mm DIN-rail (DIN EN 50022)
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 *pro*, programming package PP 50 *pro*

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 *pro*	paladin **172 412 *pro***	1	Quartz	External input
SC 28.22 *pro*	paladin **172 422 *pro***	2	Quartz	

◤◹ Housing colour