astr-☼-

reddot design award
honourable mention 2009

SC 28.X4 *pro astr-☼-*
[paladin **172 4X4** *pro*]

- 1 or 2 channels
- Daily and weekly program
- Astro 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
- Timer function
- Advanced warning function
- External input (within the one channel version)
- Channel button function
- Security by PIN-Code
- Illuminated display
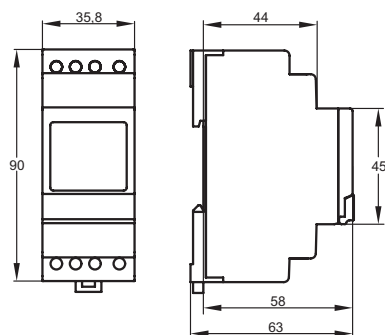- Data-key function

Further information / Accessory

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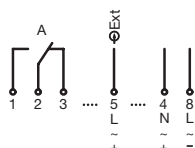(not included in delivery of the time switch)

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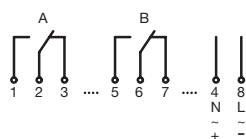
■müller

| 🔒pin | dcf | astr-☀- | internal intern 100 | year prog | week prog | 24h prog | kanal channel 1⇄2 |
| ⏱timer | lcd | ⚠☀☀☀ | 2345h | pulse | €xtern | cycle | data⊙▭ |

astr-☀-

Digital time switch SC 28.X4 *pro* astr-☀-
for DIN-rail mounting   [paladin **172 4X4** *pro*]

Technical data

Voltages	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; Astro ON, Astro OFF
Pulse length Timer (man. switching)	00:01 up to 59:59 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
Glow lamp load	max. 75 mA
Accessories (not included in delivery)	Data-key DK *pro*, programming package PP 50 *pro*

SC 28.14 *pro* / paladin **172 414** *pro*
(1 channel)

SC 28.24 *pro* / paladin **172 424** *pro*
(2 channels)

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 28.14** *pro*	◹ paladin **172 414** *pro*	1	Quartz	Astro, ext. input, advance warn. funct.
◢ **SC 28.24** *pro*	◹ paladin **172 424** *pro*	2	Quartz	Astro, advance warning function

◢◹ Housing colour