SC 28.X3 *pro* astr-☼-

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 E²-PROM
- Astronomic-function:
  – daily updated time for sunrise and sunset
  – applicable worldwide
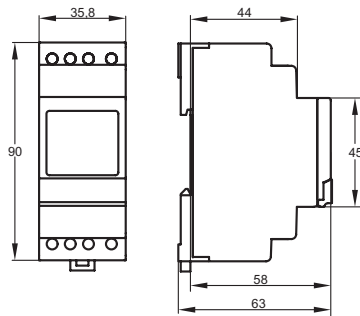 – choice of over 100 pre-defined geo-positions

- 1 or 2 channels
- Daily and weekly program
- 60 memory locations
- Minimum interval 1 min
- Switching capacity 16 A per channel
- Permanent by date-mode (holiday function)
- Permanently ON or OFF with manual switch (Perm ON/OFF)
- Manual override
- Automatic sorting of switching times on readout
- Unrestricted block programming of days
- Fully automatic daylight saving time (European, North American or Australian standard adjustable)
- Elapsed time and pulse counter for each channel
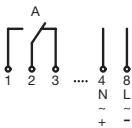- Security by PIN-Coding

Astro program astr-☼-

- Astro program: Automated switching in relation to sunset and sunrise
- Each switching time independently programmable with or without Astro function
- Astro ON and OFF is adjusted daily due to updated time for sunset and sunrise
- Block function = Earliest and latest possible astro switching time adjustable

Overview time switch functions

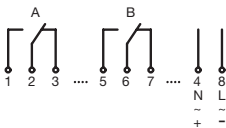|	Switching time	Front-key/ Channel-key External input
ON/OFF	✔	
Permanent	✔	
Pulse		
Timer		
Cycle		
Astro	✔	
Permanent by date	✔	
Yearly program		

⠿hugomüller

🔒pin	dcf	astr-☼-	internal intern 60	year^prog	week^prog	24h^prog	⎍ kanal 1 or 2 channel
⏱ timer	-lcd-	△☼🌙☀	2345h	⊓pulse	-Extern	⊓⊓cycle	data⊙═

Programmable time switch SC 28.X3 *pro* astr-☼-
for DIN-rail mounting

Technical data

Supply Voltage	230 V, 50–60 Hz
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
Memory locations	60
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 (E²-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

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SC 28.13 *pro* (1 channel)

SC 28.23 *pro* (2 channels)

Type/Order No.	Channels	Time Base	Special function
SC 28.13 *pro*	1	Quartz	astro
SC 28.23 *pro*	2	Quartz	astro