

### 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

#### Overview time switch functions

	Switching time	Front-key/ Channel-key External input
ON/OFF	V	·
Permanent	<b>V</b>	
Pulse		
Timer		
Cycle		
Astro	<b>V</b>	
Permanent by date	<b>V</b>	
Yearly program		

- 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
- 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-X-

- 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

₽pin	dcf <sup>3)</sup>	astr-ŏ-	internal 60	year <sup>prog</sup>	week	24h <sup>prog</sup>	kanal 1 = 2 channel
(a) timer_	-lod-		2345h	pulse	<b>€</b> xtern	Cycle	data 🕽 🚤

## Programmable time switch SC 28.X3 pro astr-X-

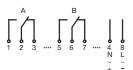
for DIN-rail mounting

35,8	
90	45
10000	•

### SC 28.13 *pro* (1 channel)



### SC 28.23 *pro* (2 channels)



Compact Fluorescent Lamp convent. lamp ballast 1,000 VA Compact Fluorescent Lamp electron. lamp ballast 4 x electronic lamp ballast, power independent Switching functions 0N, 0FF; Astro 0N, Astro 0FF Memory locations 60 Minimum interval 1 min Time base Quartz crystal	Technical data	
Channel (potential-free)         Change-over, contact gap < 3 mm (μ)	Supply Voltage	230 V, 50–60 Hz
Contact material         AgSnO₂           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 uncompensated         6 x 50 W (7 μF), 4 x 125 W (10 μF), 2 x 250 W (18 μF), 2 x 250 W (19 μF), 1 x 250 W (32 μF), 1 x 400 W (45 μF)           Sodium Discharge Lamp parallel compensated         2 x 250 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         0N, 0FF; Astro 0N, Astro 0FF           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)	Power consumption	approx. 1.5 VA
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 parallel compensated         550 VA           Fluorescent Lamp parallel compensated         550 VA           Mercury Discharge 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         2 x 50 W (7 μF), 4 x 125 W (10 μF), 2 x 250 W (18 μF), parallel compensated           Sodium Discharge Lamp parallel compensated         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         0N, 0FF; Astro 0N, Astro 0FF           Memory locations         60           Minimum interval         1 min           Time base         Quartz cryst.           Power back-up (at 20°C)         approx. 6 years (depends on the Lithium-battery life)           Unsplay         injh resolution LCD (visible area 7.5 cm²)	Channel (potential-free)	Change-over, contact gap $<$ 3 mm ( $\mu$ )
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 parallel compensated         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           Memory Inductions         0,00 FF; Astro ON, Astro OFF           Memory locations         60           Minimum interval         1 min           Time base         0 uartz 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	Contact material	AgSnO <sub>2</sub>
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 parallel compensated         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         0N, 0FF; Astro 0N, Astro 0FF           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)	Switching capacity	16 A / 250 V∼ at cosφ=1
Fluorescent Lamp uncompensated       1,000 VA         Fluorescent Lamp parallel 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       0N, 0FF; Astro 0N, Astro 0FF         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	Filament Lamp	2,000 W
Fluorescent Lamp parallel 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       0N, 0FF; Astro 0N, Astro 0FF         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<	Halogen Lamp	2,000 W
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       60         Memory locations       60         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         Distribution board mounting       35 mm DIN-rail (DIN E	Fluorescent Lamp uncompensated	1,000 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       0N, 0FF; Astro 0N, Astro 0FF         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	Fluorescent Lamp series compensated	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       0N, 0FF; Astro 0N, Astro 0FF         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       IP 20 to DIN EN 60529	Fluorescent Lamp parallel compensated	550 VA
Mercury Discharge Lamp parallel compensated6 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 uncompensated2 x 250 W, 1 x 400 WSodium Discharge Lamp parallel compensated2 x 150 W (20 μF), 1 x 250 W (32 μF), 1 x 400 W (45 μF)Compact Fluorescent Lamp convent. lamp ballast1,000 VACompact Fluorescent Lamp electron. lamp ballast4 x electronic lamp ballast, power independentSwitching functions60Memory locations60Minimum interval1 minTime baseQuartz crystalPower back-up (at 20°C)approx. 6 years (depends on the Lithium-battery life)Program securityunlimited (E²-PROM)Quartz cryst. accuracy (at 20°C)≤ ±1 sec/dayDisplayhigh resolution LCD (visible area 7.5 cm²)Permitted ambient temperature-10°+55°CEnclosureself-extinguishing thermoplasticDimensions45 x 35 x 58 mmDistribution board mounting35 mm DIN-rail (DIN EN 50022)Type of connectionScrew terminals (pull-up type)Type of protectionIP 20 to DIN EN 60529	Fluorescent Lamp double switch.	1,000 VA
parallel compensated1 x 400 W (25 μF), 1 x 700 W (40 μF)Sodium Discharge Lamp uncompensated2 x 250 W, 1 x 400 WSodium Discharge Lamp parallel compensated2 x 150 W (20 μF), 1 x 250 W (32 μF), 1 x 400 W (45 μF)Compact Fluorescent Lamp convent. lamp ballast1,000 VACompact Fluorescent Lamp electron. lamp ballast4 x electronic lamp ballast, power independentSwitching functions60Memory locations60Minimum interval1 minTime baseQuartz crystalPower back-up (at 20°C)approx. 6 years (depends on the Lithium-battery life)Program securityunlimited (E²-PROM)Quartz cryst. accuracy (at 20°C)≦ ±1 sec/dayDisplayhigh resolution LCD (visible area 7.5 cm²)Permitted ambient temperature−10°+55°CEnclosureself-extinguishing thermoplasticDimensions45 x 35 x 58 mmDistribution board mounting35 mm DIN-rail (DIN EN 50022)Type of connectionScrew terminals (pull-up type)Type of protectionIP 20 to DIN EN 60529	Mercury Discharge Lamp uncompensated	4 x 125 W, 2 x 250 W, 1 x 400 W, 1 x 700 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       0N, 0FF; Astro 0N, Astro 0FF         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		
Compact Fluorescent Lamp convent. lamp ballast       1,000 VA         Compact Fluorescent Lamp electron. lamp ballast       4 x electronic lamp ballast, power independent         Switching functions       0N, 0FF; Astro 0N, Astro 0FF         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	Sodium Discharge Lamp uncompensated	2 x 250 W, 1 x 400 W
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	Sodium Discharge Lamp parallel compensated	$2$ x 150 W (20 $\mu F),$ 1 x 250 W (32 $\mu F),$ 1 x 400 W (45 $\mu F)$
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	Compact Fluorescent Lamp convent. lamp ballast	1,000 VA
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	Compact Fluorescent Lamp electron. lamp ballast	4 x electronic lamp ballast, power independent
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	Switching functions	ON, OFF; Astro ON, Astro OFF
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	Memory locations	60
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	Minimum interval	1 min
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	Time base	Quartz crystal
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	Power back-up (at 20°C)	approx. 6 years (depends on the Lithium-battery life)
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	Program security	unlimited (E <sup>2</sup> -PROM)
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	Quartz cryst. accuracy (at 20°C)	≦ ±1 sec/day
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	Display	<u> </u>
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	Permitted ambient temperature	−10°+55°C
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	Enclosure	self-extinguishing thermoplastic
Type of connection Screw terminals (pull-up type) Type of protection IP 20 to DIN EN 60529	Dimensions	45 x 35 x 58 mm
Type of protection IP 20 to DIN EN 60529		35 mm DIN-rail (DIN EN 50022)
1,70 - 1,7	Type of connection	Screw terminals (pull-up type)
Class of protection II when installed according to regulations	Type of protection	IP 20 to DIN EN 60529
	Class of protection	II when installed according to regulations

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

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