Programming manual Astro-switching SC 28 / 172 4X3 astr-\(\overline{c}\)-

1 ⇒ Monday 2 ⇒ Tuesday 3 ⇒ Wednesday 4 ⇒ Thursday 5 ⇒ Friday 6 ⇒ Saturday 7 ⇒ Sunday

⇒ Channel ON

L ⇒ Channel OFF In mode AUTO manual switching possible by pressing relevant keys.

Programming

Key functions

Menu

Selection of programming modes

 $AUTO \rightarrow PR \rightarrow ? \rightarrow \bigcirc \longrightarrow S/W \rightarrow AUTO ...$

[CL] CLear programmed switch commands in modes PR; ? and Q.

In PR; ?; S and S/W modes: Select function option of flashing digit resp. position. In Mode ?: Change selected inputs.

[O.K.] Confirm the selected mode. In PR and modes Advance to required position. (forwards) In? mode: Advance to next switching time. In S/W mode: Enter into memory.

In PR and \(\infty \text{ modes:} Return to required position. (backwards) In ? mode: Return to previous switching time.

In AUTO mode:

[B] Press for manual override ON or OFF in relevant channel. Holding down key for 3 seconds will switch ON or OFF PERM override. perm will be displayed. Programmed switching functions of relevant channel are suppressed. Cancel permanent ON or OFF by holding down key for a further 3 seconds, perm will disappear

Programming advice

The default setting on delivery is programmed real time and date, the summertime change is activated. Battery power reserve:

Either without external power, or during a supply interruption, by operating the O.K. button the display comes on and switching commands can be programmed.

Make inputs step by step. The appropriate position in the display is flashing and can be changed by pressing ◆ key. Advance to next position by using **O.K.** key, go backwards by using ◀ key. Inputs are terminated when flashing finishes

Installation details

Caution: The installation and assembly of electrical equipment must be only carried out only by a skilled person.

Warranty void if housing opened by unauthorised

The high density electronic circuit is protected against a wide range of external influences. Incorrect operating may occur if external influences exceed certain limits.

Pressing recessed button in the middle of ◀ key and CL key, will clear date, real time and microprocessor Switching programmes normally will not be affected. (Check by Read - Out; "?"mode)



The \bigcirc mode is selected because date and real time must be programme new

Operating modes

AUTO Display of time, day of week, current switch status of channel(s). Bar graph display of ON time. Display the current sunset-time (ON) by operating the O.K. key and the sunrise-time (OFF) by operating the **O.K**. key a second time. Manual overriding possible (key A, B)

Input of switching commands according to week day(s) and time
Use arrow ◀ and O.K. keys to alter flashing digit

Use diamond ◆ key to increase value. (Confirm last input with O.K. key, will enter into memory)

Displays number of free memory locations Selects the selected Astro-table Show switching times Alter switching time

Clear single or all switching times Use **O.K.** key forwards or ◀ key backwards to display switching times.
Use diamond ◆ key to change (alter) displayed

Use CL key to cancel the displayed switching

Use **CL** key twice to cancel all switching times if number of free memory locations available

displayed only Input of actual date and time
Use arrow ◀ and O.K. keys to alter flashing di-

Use diamond ♦ key to increase value.
(Confirm last input with **O.K.** key, will enter into memory and change into AUTO mode) To activate / deactivate the summer/winter time change over.

Use diamond ◆ key to select automatic S/W time change ON or OFF.
(Confirm last input with **O.K.** key, will enter into memory and change into AUTO mode)

Astro-function

- · The switch function OFF in Astro mode is alligned with sunrise
- The switch function ON in Astro mode is alligned with sunset
- Each switch-time can be programmed alternatively as Astro, or as normal switch-time
- With the two channel version each channel can be programmed seperately to be Astro or normal switching function.
- If the Astro-function is chosen for a switch-time, the sunrise (turning off) as well as sunset (turning on) times programmed for the current day will be shown in the Display -
- this time can be changed as required and becomes automatically modified each successive day in accordance with the chosen Astro table -
- the difference (offset) between the entered switchtime and the sunrise/set-time is fixed for successive
- The programmed switching times, (mode Pr), as well as the indicated Astro-switch times (mode?) are always applied exclusively to the current day.
- In mode AUTO The current sunset-time can be read by pressing button O.K., and by pressing O.K.twice the current sunrise-time is displayed
- In mode? the matching astro-table must be chosen as the first step.

Astro table - custom on request

Mode?

Select time zone. (see astro table)

Prior to programming switching commands it is necessary to select the installation time zone. A different Astro-table can be chosen at anytime. The currently programmed Astro-switch times are automatically re-calculated after the selection of the new table. Programmed Astro-switch times can be checked. amended or deleted and input again..

Example: Astro-table 05 (At 05) required.

Start from: Mode AUTO;
Astro-table 01 (At 01) active.

Push button 30 PL **2**x, & button O.K. 1x AUTO PR ? S S/W Display of free programming commands

Push button O.K. 1x

AL II I

Push button ◆ 3x

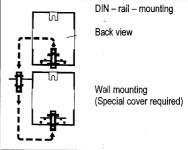
Push button

◆ 1x

AUTO PR ? 6 S/W AL 05 AUTO PR ? O S/W

After programming, viewing or amending time zone, by pressing button O.K. switching commands can be viewed, programmed or amended. To return to AUTO mode press

Mounting advice



Wiring diagrams

Connect to voltage and frequency according to type label only.

1 channel SC 28.13 172 413

2 channel

SC 28.23

172 423

