

^{**}Within standard (non-astro) time switches
***One-channel version

Instruction Manual (Site 2 / 2) (GB)

Time switch (with Astro function)

Program -> New program -> Channel A/B/C/D -> Cycle 1 - 4 -> ...

For the cycle function it is possibile to enter a periodic switching time. The time switch acts as a recycling timer and switches between pulse (ON) and pause (OFF). The nax, value for pulse and pause is 9:59:59 h:mm:ss.

The cycle is not offered in the menu **New program** if you haven't defined and activated a cycle. Once you have activated and defined at least one of the 4 different cycles within submenu **Cycle** of menu **Options** (point 13), a switching time with cycle function is programmable.

After having defined and activated the cycle (point 13) please proceed with following programming instructions:

Switch to main menu / Enter-mode and using the 🛨 -buttons choose the **Program**-menu then confirm by pressing

- Confirm sub-menu **New program** by pressing **M**.
- By using the buttons select the desired channel for switching and confirm by pressing ☑
- Pick the appropriate cycle using the buttons and confirm by pressing ...
- Using the □元-buttons select which day or days of the week the cycle will be activated by selecting "Yes" or "No", then confirm each day by pressing

 Set the start time of the Cycle: Hours □元 then confirm by pressing Minutes □元 then confirm by

- If you want to continue programming, confirm next switching by pressing OK. To leave the programming menu select end.
- The selected cycle is terminated (over-ridden) by a standard switching time (ON OFF, Pulse) or the subsequent switching time of another cycle.

müller SC 28.X2 pro / SC 28.X4 pro paladin 172 4X2 pro / 172 4X4 pro

ons -> Cycle -> Cycle 1 - 4 -> ...

You have the possibility to define 4 different Cycles. For these purposes choose menu Options and sub-menu Cycle. The different cycles can be acivated, defined or activated (the max. value for pulse or pause is 9:59:59 h:mm:ss)

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- Choose menu Options and sub-menu Cycle and confirm with OK.
- Select with ☐ buttons one out of the 4 cycles (Cycle 1 Cycle 4) and confirm with .
- Activate the cycle by changing **No** to **Yes** with -+ -buttons and subsequent confirming with W.
- Define duration of the pulse "on-time" (+ -> OK
- Define duration of the pause **"off time"** (-+ -> OK...).
- Confirm **End** with OK
- The cycle is now offered within the programming menu.
- II Further applications of the cycle function in combination with: External Input function (16) and/or Channel keys function (17)

14. Astro-function* Program -> new program -> channel A/or B -> ...

The astro function allows you to switch the whole year through in relation to sunset and sunrise, e.g. for illumination purposes (astro-ON with sunset and astro-OFF with sunrise). The programming is made according to (8 / 9) with following difference:

- Choose astro function astro ON and astro OFF respectively (9F).
- While programming an astro program step there will be no time (hh:ss) suggested (8H / 9H). Instead of this you have the possibility to enter an offset. E.q. if you like to switch on the light 20 minutes before sunset would you enter an offset of minus 20 minutes while programming astro ON.

Adjustment -> Astro -> ...

The following options concerning the astro function are adjustable to satisfy your needs:

- Position location: Adjust your geographical position with pre-defined choice of regions/countries and cities
- Position coordinates: Adjust your geographical position with longitude, latitude and time zone.
- Block Sunrise: Earliest possible point in time for the astro function (sunrise).
- Block Sunset: Latest possible point in time for the astro function (sunset), e.q. switching on the light not later than 10 p.m. even if sunset is later

16. External Input ***

Options -> Input-> ...

The external input can be connected to a switched contact such as a push-button or light switch. Therefore you can activate and de-activate functions from a remote ocation or automatically from a control system

- For 35mm-devices: The external input is only featured on the one channel version
- III The resulting operation of the output channel, depending on the status of the external input is defined within menu Options and submenu Channel-keys Functional options of the "external input":

Within menu Options and submenu Input you have to define if a switch or a push-button-signal will be applied to the external input. Furthermore you can choose the channel(s) which react to the external signal:

- Using the 🖦 -buttons select if you are connecting a **pushbutton** or a **switch** and confirm by pressing 🚾
- Select the channel(s) which will be controlled by the external signal with the 🖃 buttons (channel ... yes) and confirm by pressing Off. Channels which should not be controlled by the external signal remain deactivated, confirm channel ... no then press off to confirm
- Define a response function within menu Options and submenu Channel-keys (point 17). This function will be performed by the output channel when the external input is activated!

 The pre-defined (default) setting is the standard 'Change function' which changes the switching status from ON to OFF and vice versa.

Input **→** M

17. Channel keys

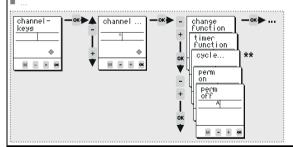
Options -> channel-keys -> ...

Within the Options menu you will find submenu channel-keys. Here you have the opportunity to assign different response functions to the output channels.

These response functions will only be carried out when using the channel-keys $\overline{\mathbb{A} \, \mathbb{B}}$ of the time switch (manual over-ride) or optionally when activating the channel with the external input. Thus, a programmed switching time will be executed as usual, independent of the settings within this channel-kev-menu.

The correlation between the channel-keys and the channels is as follows:

- channel A => channel key A (push-button "A" of the device)
- channel B => channel key B (push-button "B" of the device)



Overview "channel-keys" functions:

If you have assigned a specific response function to a channel, this switching function will occur if you push the channel-button on the front plate of the time switch (or if the external input for this channel is activated and a signal is applied to the input, as explained under point 16). For each channel one out of the following functions can be defined:

- Change function (default setting): By pressing the channel key (or optionally using the external input) the switching status changes from **ON** to **OFF** o **OFF** to **ON**. This corresponds to a standard manual over-ride of the channel.
- Timer function: By pressing the channel key (or optionally using the external input) the Timer starts and the corresponding channel switches ON. After the expiry of the Timer-time the channel switches OFF. If the channel receives another signal before the expiry of time the time switch reacts as follows:
 - After pressing the channel-button = Timer stops and the channel switches OFF.
 Signal on the external input = Timer restarts/ Staircase lighting timer -> Resettable
- Cycle 1 4: By pressing the channel key (or optionally using the external input) the cycle function starts. Attention: This function is only available if the cycle is activated and defined in advance within menu Options and submenu Cycle. Astro time-switches do not have the cycle feature!!!
- Perm on: By pressing the channel key (or optionally using the external input) the channel switches permanently ON. This status remains active until the channel key of the device is pressed again.
- Perm off: By pressing the channel key (or optionally using the external input) the channel switches permanently OFF. This status remains active until the channel key of the device is pressed again.
- The Change function, Timer function and Cycle functions will be overridden by the regular switching program or by a manual over-ride!!!

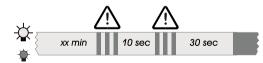
18. Switchoff warning

Options -> Switchoff warning -> ...

Within menu Options and submenu Switchoff warning the early warning switch off function can be activated and deactivated:

me will be deleted and have to be re-entered. The switching program has not

- Warning No: The function remains inactive.
- Warning Yes: The function is activated and the switch off is signalled in advance (For illumination purposes the warning is signalled by the flashing of the light according DIN 18015-2 = warning to avoid sudden darkness).



An activated warning at	fects all channels	s and all OFF switching times		•	
19. Additional adjustmen	ts		20. Program modify		
<u>Menu</u>	Main menu	Application	Program -> Program modify ->		
Program query	Program	To query the programming steps and remaining memory locations		▼	
Program copy	Program	Copy from one channel to another. Memory of the channel won't be overwritten; the copied switching steps appear additionally. A Permanent by date function is not copied!	memory channel B	Choose switching times Carry out amendments	
Program delete	Program	Deletion of switching time(s). The program for all channels, single channels and single programming steps within on channel can be deleted.		end selection WER	
Date-Time	Adjustment	Adjustment of date and time		end	
Summertime	Adjustment	Adjustment of the daylight saving time mode (ON/OFF)		▼ ok	
Language	Adjustment	Choice of languages	Within D	on he medified	
Factory Defaults	Adjustment	Reset to the state of delivery. Date, time and switching program will be lost!	Within Program modify each single switching time can be modified. 21. Data-key With a Data-key following activities are possible:		
Counter	Options	Displays the hour counter and pulse counter for each channel and the time switch itself.	 Save data: Writes the data from the time switch into the memory of the Data-key. Program timeswitch: Writes the data located inside the Key into the memory. 		
PIN-Code	Options	The time switch can be locked with a 4-digit PIN-Code. The code can be adjusted, activated and deactivated. If you have forgotten the Code please call customer service.	 Key function: The time switch will solely apply programming steps from the Data-key. The switching program of the time switch is suppressed. Key readout: To query the switching program of the Data-key. 		
	Press all front keys for 2 seconds. The time switch is reset. The values for date and				

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Reset-Function

Key Function Key readout