## 25 A4 Binary, Flash before Off 980303

## Use of the application program

Product family: Output
Product type: Switching actuator
Manufacturer: Siemens
Name: $\quad$ Switching actuator N 567/01
( $4 \times 230 \mathrm{~V}$ AC / 8A)
Order no.: 5 WG 1 567-1AB01

## Functional description

The switching actuator N 567/01 needs the application program " 25 A4 Binary, Flash Before Off 980303". There is a distinction between bus mode and direct mode. In bus mode each channel can be provided with a communication object for switching, for status check and for logic operation. In addition it is possible with each channel to change over from permanent switch-on to timelimited switch-on (e.g. for cleaning light) using an optional object "Night mode".
If required it is possible to activate an 8 bit scene control function, which is integrated in the application program, and to incorporate each channel in up to 8 scenes. In addition you can choose whether all channels shall be parameterized jointly and hence identically or each channel separately and individually.
The following parameterizations are possible per channel:

- Operating mode (normal / time switch mode)
- Logic operation (none, AND, OR)
- On delay
- Off delay
- On period in night mode
- Warning before Off by multiple flashing in case of a time-limited On period in night mode or in time switch mode
- Switching state after mains voltage recovery. The application program can be loaded from ETS2 V1.3 onwards.


## Bus mode / direct mode

The switching actuator $\mathrm{N} 567 / 01$ has an integrated power supply unit for 230 V AC in order to supply power to the actuator electronics. The power supply unit enables operation of the actuator and direct switching of the actuator channels in "direct mode" even if no bus voltage is available, the $\mathrm{N} 567 / 01$ still has to be taken into operation with the ETS (Engineering Tool Software) or communication over the EIB has been interrupted.
With the $N$ 567/01, "direct mode" is switched on by means of a pushbutton at bottom left on the upper side of the actuator. When this pushbutton is pressed for the
first time, the yellow LED shines with a steady light to indicate the direct mode. In direct mode, each channel can be switched by a toggling function using the pushbutton assigned to it on the upper side of the actuator: pressing the pushbutton once switches On the channel, pressing it a second time switches Off the channel. The switching state of the channel is indicated by a red LED integrated in the pushbutton.
A parameter is available to set whether direct mode can be switched on permanently or for a limited time. In the default setting, direct mode is limited to an On period of 15 minutes. Each time the pushbutton is pressed in direct mode the timer for limiting the On period is restarted with the parameterized On period. If the On period expires without the pushbutton being pressed again, direct mode is switched off automatically and "bus mode" reactivated (provided communication over the EIB is possible). Alternatively, direct mode can be terminated at any time with another press of the "direct mode" pushbutton. The yellow LED for indicating direct mode then goes out and the actuator is back in bus mode. In bus mode, nothing happens if you press the pushbuttons for directly switching a channel On or Off which are located on the upper side of the actuator. Switching and scene calling commands received over the bus when direct mode is active are buffered and automatically executed after having returned to bus mode.

## Behavior on mains voltage failure / recovery

The actuator electronics is powered from the mains supply; a power failure thus results in failure of the actuator. With the $\mathrm{N} 567 / 01$, a power failure also forces all actuator channels to be switched off. However, for each channel it is possible to select which switching state is to be adopted after power recovery: the state that existed before the power failure, On or Off.

## Parameter page "Functions, Objects"

In the supplied state, the communication object "Status direct mode" is available as well as the object "Switching On/Off" which is available for each channel. The commissioning engineer can set via the parameter page "Functions, Objects" which functions and objects he would like to use in addition to the default objects.
Configuration: This parameter is used to set whether to allow identical (i.e. the same) or individual (i.e. different) parameterization for all channels. If you select "identical for all channels", only one parameter page for the joint parameterization of all channels appears; if you select "individual for each channel", one parameter page per channel is shown.

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On-time during direct mode: This parameter is used to set whether to permit permanent or time-limited activation of direct mode; if time-limited direct mode is selected you can then also set after how much time the time-limited mode is to be reset to bus mode.
8 -bit scene control: You can select whether a communication object is to be added to the 8 -bit scene control and whether an additional parameter page for assignment of the 8 -bit scenes per channel is to be shown. Each actuator channel can be integrated in up to 8 scenes.
Night mode: You can select whether a "Night mode, On/Off" object and the corresponding function are to be added per channel. When night mode is activated, a channel can no longer be switched on permanently but only for a limited period (e.g. for cleaning light). The desired On period in night mode can then be set with another parameter.
Status switch: You can select whether a communication object "Status switch" is to be added per channel and, if so, when this object is to be sent ("using read request only" or "on change of status").

## Parameter page "Channel A-D" or "Channel X"

Depending on whether the setting permits identical (i.e. the same) or individual (i.e. different) configuration of all channels, only one parameter page appears for the joint parameterization of all channels or one parameter page per channel is shown.
Operating mode: This parameter is used to set whether the channel is to work in "Normal mode" as a "normal switch" or whether it is to work as a "Time switch" that is activated by means of a switching or scene calling command and automatically switched off after the parameterized On period expires.
If "Time switch" is selected, the parameter "On time" will also be shown. If another switching or scene calling command is received during time switch operation and an active On period, the timer will be reset to its initial value and the operating interval extended accordingly. Before expiration of the set On period, if the warning function was activated (via the parameter "Warning before Off"), then the switching channel will not be permanently switched off right away; it will first be switched off for only 1 s and then switched on again for 10 s . This is repeated another two times before the channel is then permanently switched off. If the channel is used for lighting control, a user is thus given advance warning and can switch the lighting back on again.
Logic operation: This parameter can be used if required to permit the channel to be switched using a logic operation (AND or OR) of the switching object with an additionally inserted object "Logic operation, Channel x". The
logic object is not governed by any time delay, i.e. the logic operation always takes immediate effect.
On delay: This parameter can be used to set an ON delay in the range of 0.5 seconds to 90 minutes. It has no effect on the logic objects.
Off delay: This parameter can be used to set an OFF delay in the range of 0.5 seconds to 90 minutes. It has no effect on the logic objects.
Initial value of switch and logic object on mains voltage recovery: This parameter is used, when a logic operation is activated, to specify the initial value of the switch and logic object upon recovery of the mains voltage. If no logic operation is activated, the parameter "Output state at mains voltage recovery" is shown instead.
On-time during night mode: This parameter is used to select for how long a channel can be switched on when the "Night mode" object is activated.
If another switching On command is received during an active On period, then the timer will be reset to its initial value and the operating interval extended accordingly.
Warning before Off: This parameter is used to set whether, during night or time switch operation, a channel is to signal by multiple switching off and on again of the lighting prior to expiration of the On period that the channel will be permanently switched off 30 s after it is temporarily switched off for the first time.

## Parameter page "8-bit Scenes"

With 8 -bit scene control the saving and recalling of a scene is triggered by a telegram with an 8 -bit object. The most significant bit 7 specifies whether the scene is to be saved or recalled. Bit 6 has no meaning at present. Bit 0 to bit 5 contain (in binary coded form) the number of the desired scene as a decimal number in the range from 1 to 64 (where scene number 1 is the binary number 0 , scene number 2 is the binary number 1 , etc.).
Each actuator channel can be integrated in up to 8 scenes.
Scene assignments for channel: This parameter is used to set for which channel the scene assignments are to be shown so that new ones can be assigned and existing ones altered.
Channel A: Assignment 1 with Scene [1...64] ( $0=$ disabled): This parameter can be used to link channel $A$ to a scene number in the range from 1 to 64 . " 0 " means "no scene assigned" (scene control disabled).

Note: If a scene is called before a switching state was saved for it, the corresponding channel will be switched off.

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The assignments 2 to 8 for channel A and the assignments for the other channels are made in similar manner to assignment 1 for channel A.

Maximum number of group addresses:
100
Maximum number of associations:
100

Block diagram of a channel


## Communication objects

## Note

The view of the objects can be arranged individually i.e. this view can vary.

The following communication objects are shown for the 4 -fold switch actuator $\mathrm{N} 567 / 01$ in the as-delivered state.

|  | no. | Object name | Function | Type |
| :---: | :---: | :---: | :---: | :---: |
| (10-0 | 01.01 .001 | 25 A.4 Binary, Flash betore Off 980303 5MG1 567-1AB01 |  |  |
| $\square$ | 0 | Status direct mode | On/Off | 1 Bit |
| [ $\vec{y}^{1}$ | 3 | Switch, Channel A | On/off | 1 Bit |
| [ $\square_{4}$ | 7 | Switch, Channel B | On/off | 1 Bit |
| $\square \square^{+1}$ | 11 | Switch, Channel C | On/off | 1 Bit |
| [ $\square^{+1}$ | 15 | Switch, Channel D | On/Off | 1 Bit |

The following communication objects are shown for the 4-fold switch actuator $\mathrm{N} 567 / 01$ when all additional functions were activated.

|  | no. | Object name | \|Function | Type |
| :---: | :---: | :---: | :---: | :---: |
| -1- | 01.01 .001 | 25 A4 Binary, Flash before Off | 980303 SNG1 567 | AB01 |
| $\square$ | 0 | Status direct mode | On/Off | 1 Bit |
| $\square{ }^{+1}$ | 1 | 8 -bit scene | recall / program | 1 Byte |
| $\square{ }^{\text {a }}$ | 2 | Night mode, Channel A | On/Off | 1 Bit |
| $\square{ }^{+1}$ | 3 | Switch, Channel A | On/Off | 1 Bit |
| $\square$ | 4 | Logic operation, Channel A | On/ Off | 1 Bit |
| $\square$ | 5 | Status switch, Channel A | On/ Off | 1 Bit |
| [a) | 6 | Night mode, Channel B | On/Off | 1 Bit |
| [-1 | 7 | Switch, Channel B | On/ Off | 1 Bit |
| [-1 | 8 | Logic operation, Channel B | On/ Off | 1 Bit |
| $\square$ | 9 | Status switch, Channel B | On/ Off | 1 Bit |
| $\square$ | 10 | Night mode, Channel C | On/ Off | 1 Bit |
| $\square{ }^{+1}$ | 11 | Switch, Channel C | On/ Off | 1 Bit |
| $\square$ | 12 | Logic operation, Channel C | On/ Off | 1 Bit |
| $\square$ | 13 | Status switch, Channel C | On/Off | 1 Bit |
| [-1 | 14 | Night mode, channel D | On/ Off | 1 Bit |
| $\square{ }^{\text {a }}$ | 15 | Switch, Channel D | On/Off | 1 Bit |
| $\square$ | 16 | Logic operation, Channel D | On/ Off | 1 Bit |
| $\square$ | 17 | Status switch, Channel D | On/Off | 1 Bit |


| Obj | Object name | Function | Type | Flags |
| :--- | :--- | :--- | :--- | :--- |
| 0 | Status direct <br> mode | On / Off | 1 bit | CRT |

This object is used to signal that the actuator was switched to direct mode (direct mode $=0 n$ ) by the "direct mode" pushbutton on its upper side or that it was switched back from direct mode to bus mode (direct mode = Off).
If direct mode is activated (the corresponding yellow LED on the upper side of the actuator shines), then direct switching of the actuator channels by means of a toggling function using the corresponding pushbuttons on the upper side of the actuator is enabled. The actuator does not perform the switching of scene commands received via the bus but stores them as the desired state.

After returning to bus mode (the yellow LED for indicating direct mode on the upper side of the actuator is switched off) the actuator compares the actual states of the channels with the stored states and automatically eliminates any deviations of the actual states from the stored desired states.
The direct mode status is automatically transmitted after a mains voltage recovery.

| 1 | 8 -bit scene | recall I <br> program | 1 byte | CRWT |
| :--- | :--- | :--- | :--- | :--- |

This object is used to recall the 8-bit scene with the number $x$ or to program it. Bits $0 . . .5$ hold the scene number. If bit $7=$ log. 1, then the scene is programmed; if bit $7=\log .0$, then the scene is recalled. Bit 6 has no meaning at present and must be set to logical 0 .

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| Obj | Object name | Function | Type | Flags |
| :--- | :--- | :--- | :--- | :--- |
| 2 | Night mode, <br> Channel A | On / Off | 1 bit | CRWT |

This object can be used to activate or deactivate "Night mode" for channel A via the bus. The object can be sent, for example, from a pushbutton, a time switch or a building automation system. If a logic 1 is received, then the channel will switch over to night mode.
In "Night mode", a channel can no longer be switched on permanently but only for a limited period (cleaning light for e.g. 30 minutes ). If the parameter "Warning before Off" is set to "Yes" (see the parameter page "Channel X"), then multiple switching off and on again of the lighting prior to expiration of the parameterized On period during night or time switch operation will signal that the channel will be permanently switched off 30 s after it is temporarily switched off for the first time. The end of the operating interval can thus be recognized and the lighting switched on again, e.g. for another 30 minutes, by repressing the light switch.
If the object "Night mode" is not used for a channel, then the channel can be permanently switched on at any time.

| 3 | Switch, <br> Channel A | On / Off | 1 bit | CRWT |
| :--- | :--- | :--- | :--- | :--- |

This object is used to receive the switching telegrams that are transferred to the relay channel via the timer function where applicable. If a logic operation is parameterized, then the result of the timer function forms the 1st value of the logic operation for the channel.

| 4 | Logic operation, <br> Channel A | On / Off | 1 bit | CRWT |
| :--- | :--- | :--- | :--- | :--- |

This object is used to receive the switching data for the 2nd input of the logic operation of the channel in question. With the parameter setting "no logic operation", this object has no function and is not shown.

| 5 | Status switch, <br> Channel A | On / Off | 1 bit | CRT |
| :--- | :--- | :--- | :--- | :--- |

The current switching state of the channel is saved in the status object and can be queried with a read request or, after suitable parameterization, be automatically sent each time the object value changes.

The explanations above apply to the communication objects of the other channels accordingly.

## Parameters

## Parameter page "Functions, Objects"

| Functions, Objects ${ }^{\text {a }}$ Channels A.D |  |  |
| :---: | :---: | :---: |
| ----- General ----- |  |  |
| Configuration | identical for all channels | $\square$ |
| ON time during direct mode | 15 minutes | $\square$ |
| 8 -bit scene control | No | $\square$ |
| ----- For each channel ----- |  |  |
| Night mode | No | $\square$ |
| Status objects switch | No | $\stackrel{\square}{-1}$ |

If individual parameterization per channel is desired and parameters for more functions and objects set to "Yes", then an additional parameter will be shown on this parameter page and more parameter pages added (see the following graphic).


| Parameters | Settings |
| :--- | :--- |
| Configuration | identical for all channels <br> individual for each channel |

This parameter is used to set whether only one parameter page for joint and identical parameterization of the switching channels A...D appears or one parameter page per channel for individual parameterization of each switching channel is shown.

| ON time during direct mode | 5 minutes, 10 minutes, |
| :--- | :--- |
|  | 15 minutes, 20 minutes, |
| 30 minutes, 45 minutes, |  |
|  | 60 minutes, unlimited |

This parameter is used to set whether direct mode is to be permanently switched on using the pushbutton for operating mode selection and has to be switched off again by repressing the pushbutton ("unlimited"), or whether it is switched on for a limited period and automatically switched off again after expiration of the set On period. The time-limited switching on of the direct mode ensures that the bus mode cannot be permanently blocked by the direct mode. Each time the pushbutton for switching the channels in direct mode is actuated, direct mode is prolonged by the parameterized On period.

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| Parameters | Settings |
| :---: | :---: |
| 8-bit scene control | No Yes |
| This parameter is used to set whether the actuator is to be integrated in an 8 -bit scene control. If it is, the corresponding communication object and the parameter page "Scenes" for allocating up to 8 scene numbers per switching channel will appear. |  |
| Night mode |  |
| This parameter is used to set whether an additional "Night mode" communication object is to be made available per switching channel. If it is, the following parameter "On period in night mode" will appear for setting the desired operating interval jointly for all actuator channels. |  |
| Status objects switch |  |
| This parameter is used to set whether a communication object "Status object switch" is to be made available per switching channel. The status objects can be used, for example, to indicate the current switching state of the channels on a display or a PC. <br> If status objects are desired, then the following parameter "Transmission of status objects" appears. |  |
| Transmission of status objects | on change of status only upon read request |
| Depending on the parameterization, the status objects are automatically sent each time the status changes or only when there is a read request. |  |

## Parameter page "Channel A-D" or "Channel X"

Depending on the setting of the parameter "Configuration", a parameter page for the joint and identical parameterization of all channels or one page per channel for individual parameterization of each channel is shown.


| Parameters | Settings |
| :--- | :--- |
| Operating mode | Normal mode <br> Time switch |

This parameter is used to set whether the channel is to work as a "normal switch" that can be governed by a switching On and/or Off delay and a logic operation, or whether it is to work as a pure time switch that is switched on only via an ON command and automatically switched off again upon expiration of the parameterized On period.

| Logic operation | no logic operation <br> AND function <br> OR function |
| :--- | :--- |

This parameter can be used if required to switch the channel by means of a logic operation of the switching object with an additionally inserted "Logic object, channel x". The logic operation object is not subject to any time delay, i.e. the logic operation always takes immediate effect.

| ON delay | disabled, $0.5 \mathrm{~s}, 1 \mathrm{~s}, 2 \mathrm{~s}, 3 \mathrm{~s}$, |
| :--- | :--- |
|  | $4 \mathrm{~s}, 5 \mathrm{~s}, 8 \mathrm{~s}, 10 \mathrm{~s}, 12 \mathrm{~s}, 15 \mathrm{~s}$, |
|  | $20 \mathrm{~s}, 25 \mathrm{~s}, 30 \mathrm{~s}, 45 \mathrm{~s}, 60 \mathrm{~s}$, |
|  | $1.5 \mathrm{~min}, 2 \mathrm{~min} ., 3 \mathrm{~min} .$, |
|  | $5 \mathrm{~min} ., 8$ min., 10 min., |
|  | 15 min., 20 min., 30 min., |
|  | 45 min., 60 min., 90 minutes |

This parameter is used to set the desired ON delay. The presetting "disabled" means that switching on commands are performed immediately. A set ON delay is effective only on the object "Switch channel $x$ " and not on any corresponding logic object that may exist.

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| Parameters | Settings |
| :---: | :---: |
| OFF delay | disabled, $0.5 \mathrm{~s}, 1 \mathrm{~s}, 2 \mathrm{~s}, 3 \mathrm{~s}$, $4 \mathrm{~s}, 5 \mathrm{~s}, 8 \mathrm{~s}, 10 \mathrm{~s}, 12 \mathrm{~s}, 15 \mathrm{~s}$, $20 \mathrm{~s}, 25 \mathrm{~s}, 30 \mathrm{~s}, 45 \mathrm{~s}, 60 \mathrm{~s}$, $1.5 \mathrm{~min} ., 2 \mathrm{~min} ., 3 \mathrm{~min}$., $5 \mathrm{~min} ., 8 \mathrm{~min} ., 10 \mathrm{~min}$., $15 \mathrm{~min} ., 20 \mathrm{~min}$., 30 min ., 45 min ., 60 min ., 90 minutes |
| This parameter is used to set the desired OFF delay. The presetting "disabled" means that switching off commands are performed immediately. A set OFF delay is effective only on the object "Switch channel x" and not on any corresponding logic object that may exist. |  |
| Output state at mains voltage recovery | as before voltage failure Off <br> On |
| If there is a mains voltage failure, all actuator channels will be forced to switch off after their current switching state was saved. The actuator electronics is powered by the mains, i.e. the actuator cannot switch if there is no mains voltage. <br> This parameter is used to set the desired switching state of the channel after mains voltage recovery when no logic operation is activated. |  |
| Initial value of switch and logic object at mains voltage recovery | as before voltage failure / as before voltage failure, <br> as before voltage failure / Off, as before voltage failure / On, Off / as before voltage failure, Off / Off, <br> Off / On, <br> On / as before voltage failure, <br> On / Off, <br> On / On |
| The parameter for setting the initial value for the switch and logic object after mains voltage recovery appears instead of the parameter "switching state after mains voltage recovery" when a logic operation is activated. |  |
| ON time during night mode | 5 minutes, 10 minutes, 15 minutes, 20 minutes, 30 minutes, 45 minutes, 60 minutes |
| This parameter is used to select for how long a channel can be switched on when the "Night mode" object is activated. <br> If another switching on command is received during an active On period, then the timer will be reset to its initial value and the operating interval extended accordingly. |  |


| Parameters | Settings |
| :--- | :--- |
| Warning before OFF in night <br> mode | Yes <br> No |
| This parameter can be used to activate a warning before OFF. <br> Exactly 30 s before expiration of the set On period, the switch- <br> ing channel is switched off for the first time for 1 s and then <br> back on again for 10 s . This is repeated another two times be- <br> fore the output is then permanently switched off. If the chan- <br> nel is used for lighting control, a user is thus given advance <br> warning and can switch the lighting back on again. |  |

## Time switch mode

If the parameter "Operating mode" is set to "Time switch", then the parameters described before will appear.

| Functions, Obiects \| 8-bit scenes | Channel A | Channel B \| Channel C | ChannelD |
| :---: | :---: | :---: | :---: |
| Operating mode |  | Time switch | $\checkmark$ |
| Logic operation |  | AND function | $\checkmark$ |
| ON time |  | 5 minutes | $\square$ |
| Initial value of logic object at mains voltage recovery |  | as before voltage failure | $\checkmark$ |
| Warning before OFF |  | Yes | $\checkmark$ |


| Parameters | Settings |
| :--- | :--- |
| Operating mode | Normal mode <br> Time switch |

This parameter is used to set whether the channel is to work as a pure time switch that is switched on only via an ON command and automatically switched off again upon expiration of the parameterized On period or whether it is to work as a "normal switch" that can be governed by a switching On and/or Off delay if applicable.

| Logic operation | no logic operation <br> AND function <br> OR function |
| :--- | :--- |

This parameter can be used if required to switch the channel by means of a logic operation of the switching object with an additionally inserted logic object. The logic operation object is not subject to any time delay, i.e. the logic operation always takes immediate effect

## ON time

> disabled, $0.5 \mathrm{~s}, 1 \mathrm{~s}, 2 \mathrm{~s}, 3 \mathrm{~s}$, $4 \mathrm{~s}, 5 \mathrm{~s}, 8 \mathrm{~s}, 10 \mathrm{~s}, 12 \mathrm{~s}, 15 \mathrm{~s}$, $20 \mathrm{~s}, 25 \mathrm{~s}, 30 \mathrm{~s}, 45 \mathrm{~s}, 60 \mathrm{~s}$, $1.5 \mathrm{~min} ., 2 \mathrm{~min} ., 3 \mathrm{~min}$. $5 \mathrm{~min} ., 8 \mathrm{~min}$., 10 min ., $15 \mathrm{~min} ., 20 \mathrm{~min} ., 30 \mathrm{~min}$., 45 min., 60 min., 90 minutes
This parameter is used to set the desired ON period when "Time switch" operation was selected as operating mode. If another switching on command is received during an active On period, then the timer will be reset to its initial value and the operating interval extended accordingly. A "Warning before OFF" should not be activated until after an On period $\geq$ of at least 1 minute.

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| :--- | :--- | :---: | :---: |
| Initial value of logic object <br> at mains voltage recovery | As before voltage failure <br> Off <br> On |  |  |
| This parameter is used to set the start value of the logic object <br> at mains voltage recovery. <br> This parameter is shown in addition when an AND or an OR <br> operation is desired during time switch operation. |  |  |  |
| Warning before OFF |  |  | Yes <br> No |
| This parameter can be used to activate a warning before OFF. <br> Exactly 30 s before expiration of the set On period, the switch- <br> ing channel is switched off for the first time for 1s and then <br> back on again for 10 s. This is repeated another two times be- <br> fore the output is then permanently switched off. If the chan- <br> nel is used for lighting control, a user is thus given advance <br> warning and can switch the lighting back on again. |  |  |  |

## Parameter page " 8 -bit scenes"



| Parameters | Settings |
| :--- | :--- |
| Scene assignments for | A |
| channel | B |
|  | C |
|  | D |

This parameter is used to set for which channel the scene assignments are to be shown so that they can be assigned or altered.

| Channel A: Assignment 1 <br> with scene [1...64] <br> (0=disabled) | $0-64,0$ |
| :--- | :--- |

This parameter can be used to link channel A to a scene number in the range from 1 to 64.0 means "No scene assigned" (link unused).

Note: If a scene is recalled before a switching state was programmed for it, the channel in question will be switched off. | Channel A: Assignment 2 | $0-64,0$ |
| :--- | :--- |

This parameter can be used to link channel A to another scene number in the range from 1 to 64.0 means "No scene assigned" (link unused).
Note: If a scene is recalled before a switching state was programmed for it, the channel in question will be switched off.
and so on until

## Channel A: Assignment 8 0-64, 0

This parameter can be used to link channel A to another scene number in the range from 1 to 64.0 means "No scene assigned" (link unused).
Note: If a scene is recalled before a switching state was programmed for it, the channel in question will be switched off.

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## Timing diagrams: examples of one channel

1. Switching without a time delay, no logic operation

| Switching telegrams |  | $\begin{gathered} \text { On } \\ \mathbf{4} \end{gathered}$ | $\begin{gathered} \text { Off } \\ \downarrow \end{gathered}$ | $\begin{gathered} \text { On } \\ \mathbf{4} \\ \hline \end{gathered}$ | $\begin{gathered} \text { On } \\ \mathbf{4} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Off } \\ i \end{gathered}$ | On $1$ | $\begin{gathered} \text { Off } \\ \downarrow \end{gathered}$ | $\begin{gathered} \text { Off } \\ \downarrow \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Relay contact | On Off |  |  |  |  |  |  |  |  |

2. Switching with an On delay, no logic operation

3. Switching with an Off delay, no logic operation

4. Switching with an On and Off delay, no logic operation


## 5. Switching with time switch function,

 no logic operation
6. Switching with AND function, no time delays

7. Switching with OR function, with an On delay

8. Switching with AND function, with On and Off delay

9. Switching with OR function and time switch function


