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Synco living

Train the Trainer

Introduction
Safety & Security

Spring 2008



Introduction Safety & Security

Introduction

Overview security

- **Supervisory functions**

Smoke supervision
Window supervision
Door supervision
Fault inputs

- **Alarms**

Fault outputs

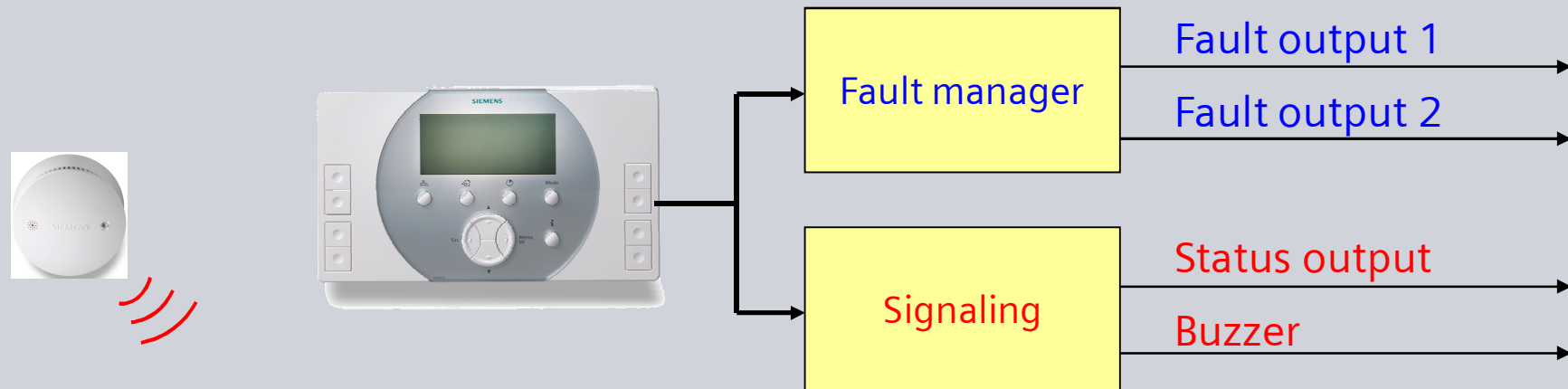
- **Signaling**

Buzzer
Status output



Introduction Safety & Security Smoke Supervision

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The central apartment unit can monitor up to **12 smoke detectors** [KNX RF or KNX TP1(S-mode)] (**1 smoke detector per room**).

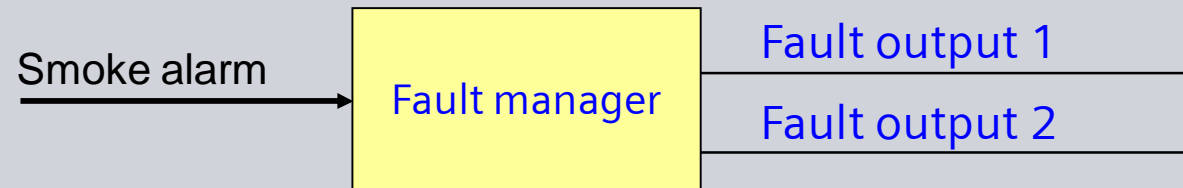
If smoke is detected, the smoke detector sends alarm telegrams to the central apartment unit.

In the central apartment unit, the smoke alarm is forwarded to the fault manager and the signaling section.




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Smoke Supervision



As soon as the central apartment unit's fault manager receives a smoke alarm, the following actions will be executed:

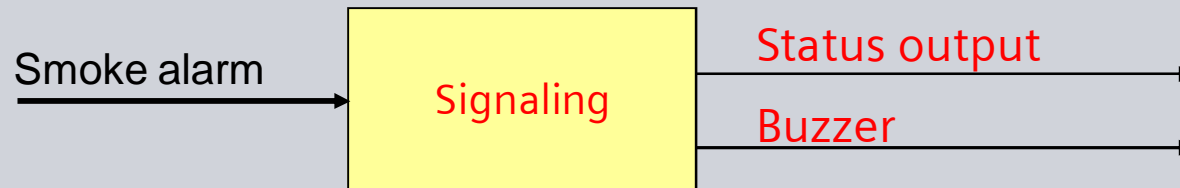
- Display of the smoke alarm on info page "Device state" including name of smoke
- The quiescent picture shows symbol 
- The smoke alarm is saved in the fault history (10 entries)
- Delivery of a fault status message via KNX TP1, provided there is no other, more severe fault pending in the system
- If optional fault output 1 or 2 is configured, the relevant relay contact will close



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Smoke Supervision

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As soon as the central apartment unit's signaling section receives a smoke alarm, the following actions will be executed:

- Activation of the central apartment unit's built-in buzzer, provided the "Smoke" event for the buzzer is activated
- If the optional status output is configured, the respective relay contact will close, provided the "Smoke" event for the status output is activated

Note:

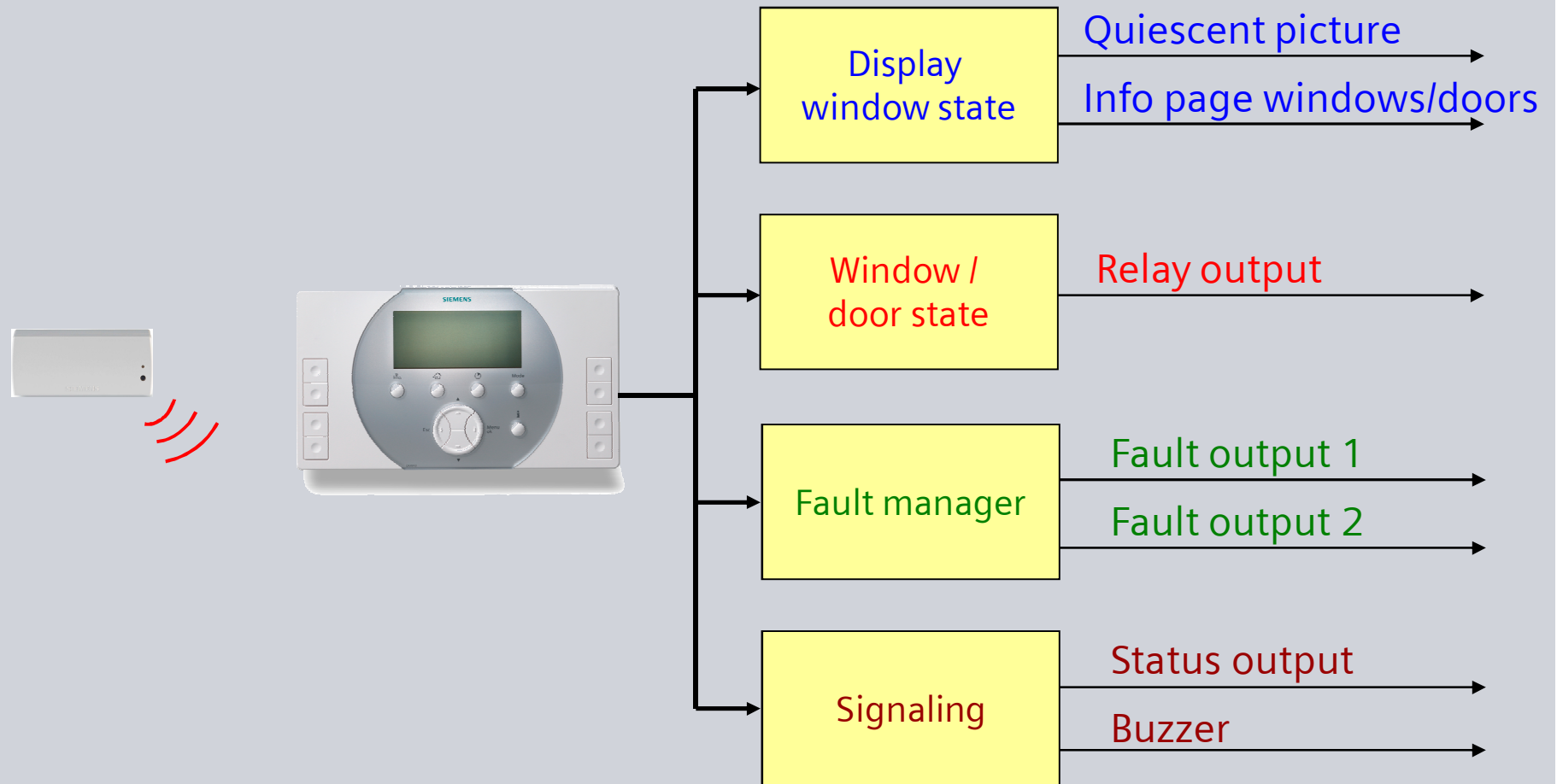
Both buzzer and status relay will again be deactivated when the set signal duration has elapsed, or by pressing a button on the central apartment unit, independent of the state of smoke supervision.



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Window Supervision

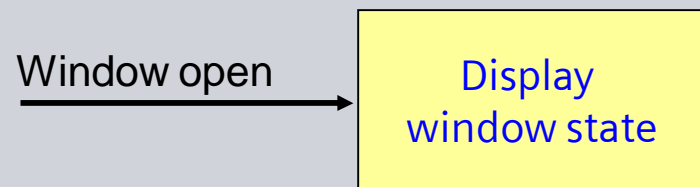
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Window Supervision

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The central apartment unit can monitor up to 6 window contacts per room (KNX RF) or 1 KNX TP1 (S-mode).

If at least one of the windows is left open, symbol  appears in the quiescent picture on the central apartment unit.

Using the info pages of the individual rooms, or info page “Windows / doors”, it is possible to find out in which room a window was left open.

Note:

If windows **and** doors were left open, the quiescent picture shows both symbols alternating.



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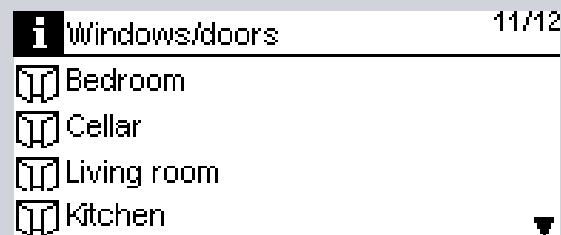
Window Supervision

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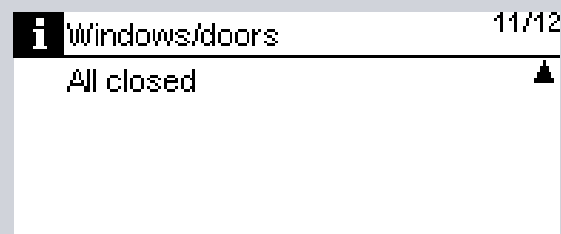
Window open

Window /
door state

Info page “Windows / doors” shows all windows and doors presently open.



If more than 4 windows **and** doors are open at the same time, the information will be given on several info pages.



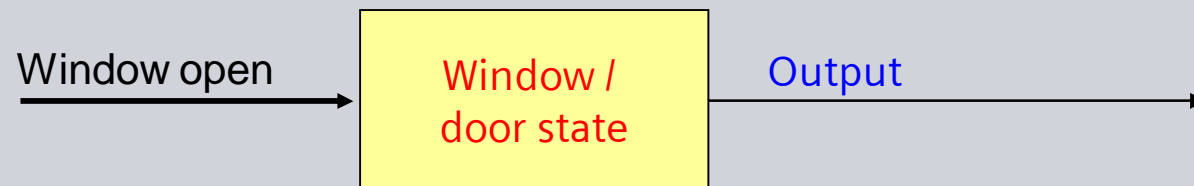
If all windows and doors are closed, the display will show it.



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Window Supervision

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As a physical door / window state output, select one of the following:

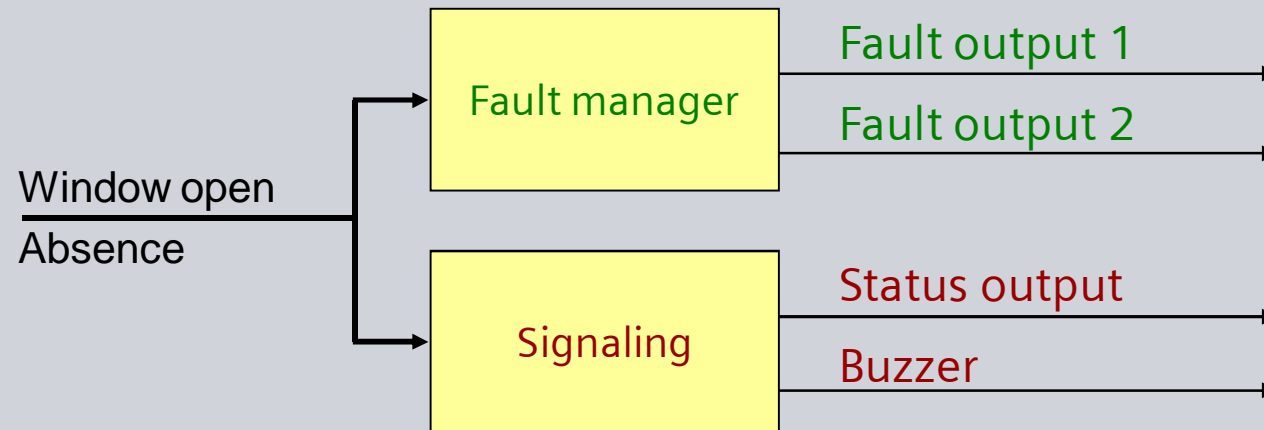
- Relay output Q of the central apartment unit
- Relay output Q of a heating circuit controller RRV91x or a multicontroller RRV934
- Output via S-mode KNX TP1 (configuration via ETS)



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Window Supervision

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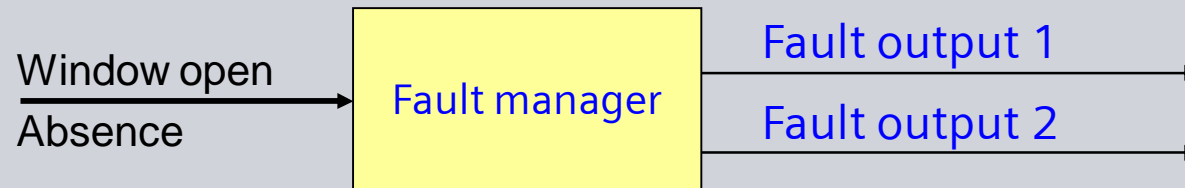
The rooms in which the window contacts shall be monitored can be selected (enabling supervision). This means that certain windows can be left open without triggering an alarm.

If, while supervision is active, an open window contact is detected in a monitored room, the central apartment unit instantly forwards the window alarm to the fault manager and the signaling section.




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Window Supervision



As soon as the central apartment unit's fault manager receives a window alarm, the following actions will be executed:

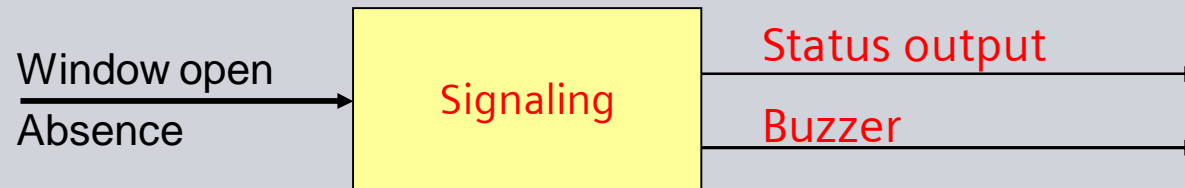
- Display of window alarm on info page "Device state", plus the room's name
- The quiescent picture shows symbol .
- The window alarm is saved in the fault history (10 entries)
- Delivery of a fault status message via KNX TP1, provided there is no other, more severe fault pending in the system
- If optional fault output 1 or 2 is configured, the relevant relay contact will close
- Message "Window open" disappears from the display only after the next change of supervision



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Window Supervision

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As soon as the central apartment unit's signaling section receives a window alarm, the following actions will be executed:

- Activation of the central apartment unit's built-in buzzer, provided the "Window / door supervision" event for the buzzer is activated
- If the optional status output is configured, the respective relay contact will close, provided the "Window / door supervision" event for the status output is activated

Note:

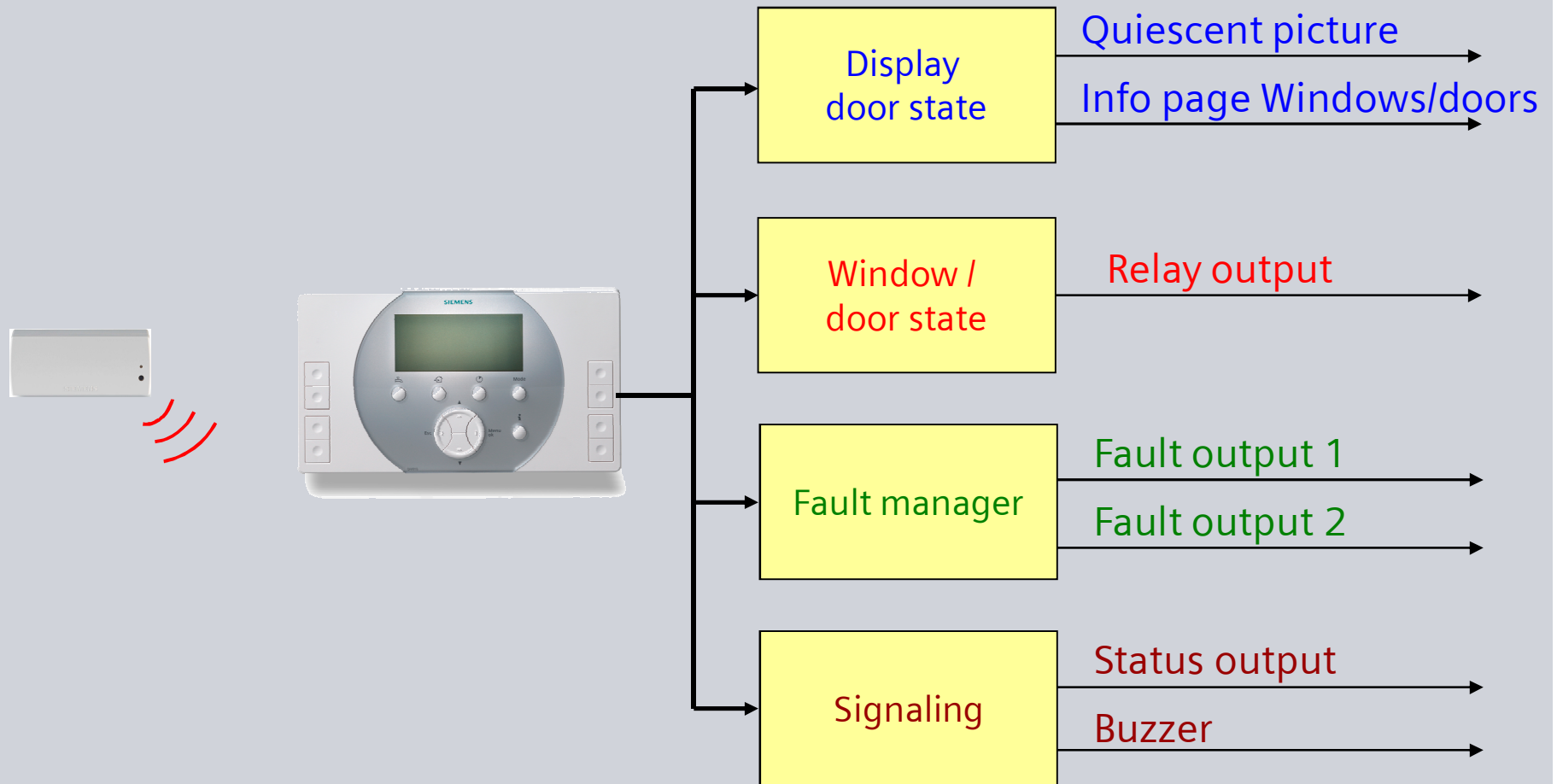
Both buzzer and status relay will again be deactivated when the set signal duration has elapsed, or by pressing a button on the central apartment unit, independent of the state of window / door supervision.



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Door Supervision

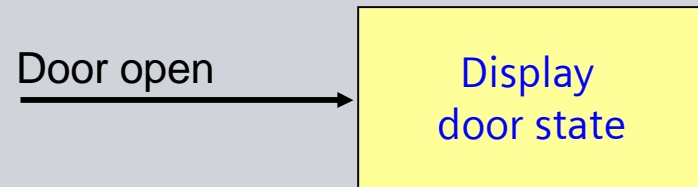
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Door Supervision

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The central apartment unit can monitor up to 2 door contacts per apartment / house (KNX RF or KNX TP1 [S-mode]).

If at least one door is left open, symbol  appears in the quiescent picture on the central apartment unit.

Note:

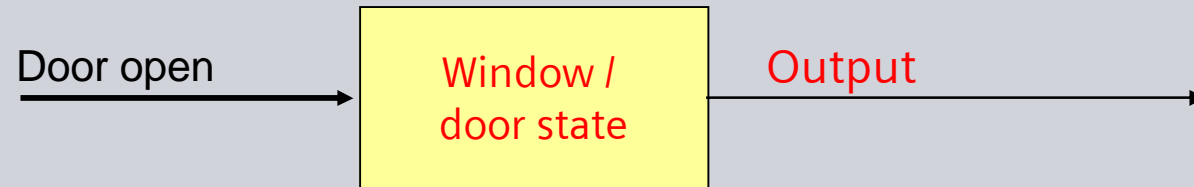
If windows **and** doors were left open, the quiescent picture shows both symbols alternating.



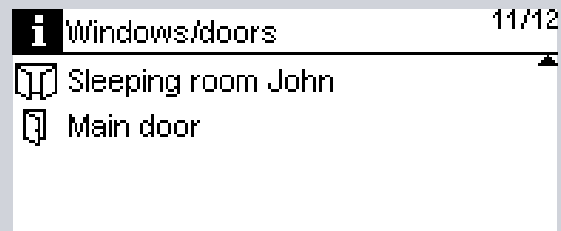
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Door Supervision

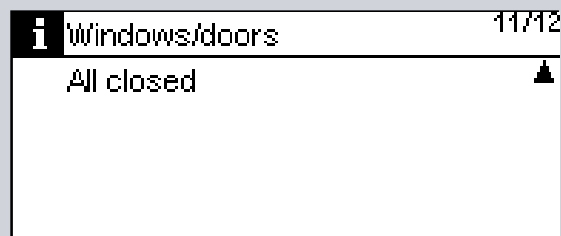
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Info page “Windows / doors” shows all windows and doors presently open.



If more than 4 windows **and** doors are open at the same time, the information will be given on several info pages.



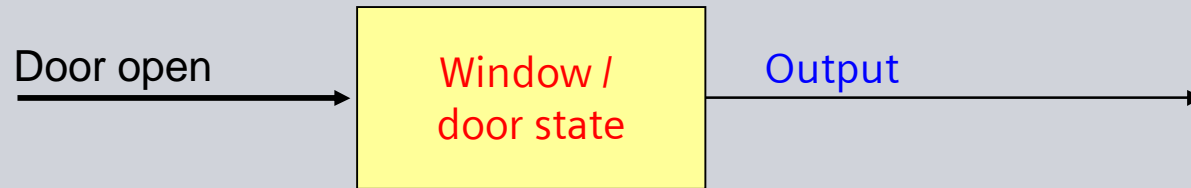
If all windows and doors are closed, the display will show it.



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Door Supervision

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As a physical door / window state output, select one of the following:

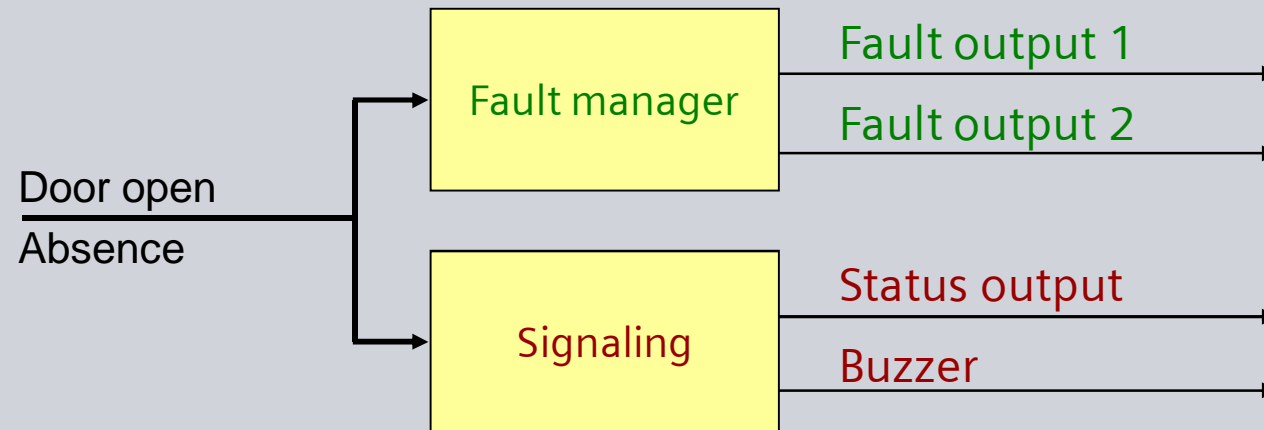
- Relay output Q of the central apartment unit
- Relay output Q of a heating circuit controller RRV91x or a multicontroller RRV934
- Output vis S-Mode KNX TP1 (configuration via ETS)



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Door Supervision

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The doors that shall be monitored can be selected (enabling supervision). This means that certain doors can be opened while supervision is active, without triggering an alarm.

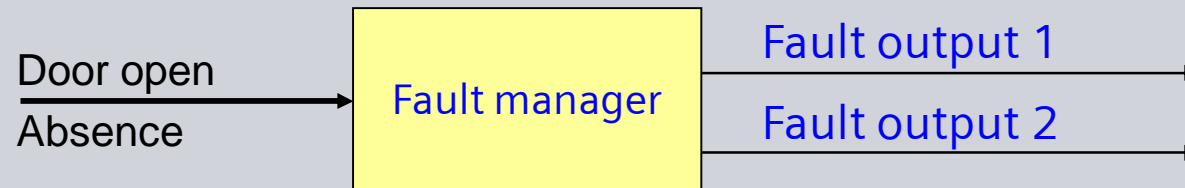
If an open door contact is detected in a monitored house / apartment, the central apartment unit forwards the door alarm to the fault manager and signaling section as soon as the adjustable signal delay time has elapsed.




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Door Supervision

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As soon as the central apartment unit's fault manager receives a door alarm, the following actions will be executed:

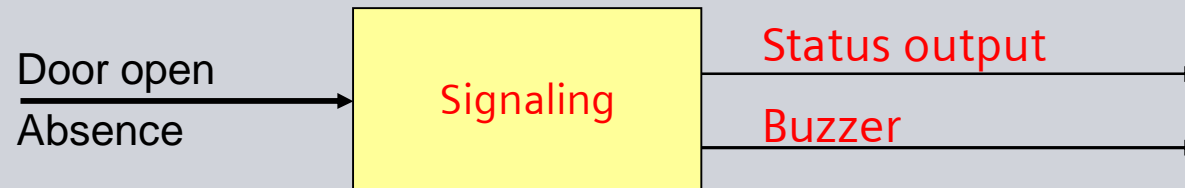
- Display of door alarm on info page "Device state"
- The quiescent picture shows symbol 
- The door alarm is saved in the fault history (10 entries)
- Delivery of a fault status message via KNX TP1, provided there is no other, more severe fault pending in the system
- If optional fault output 1 or 2 is configured, the respective relay contact will close
- Message "Door open" disappears from the display only after the next change of supervision



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Door Supervision

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As soon as the central apartment unit's signaling section receives a door alarm, the following actions will be executed:

- Activation of the central apartment unit's built-in buzzer, provided the "Window / door supervision" event for the buzzer is activated
- If the optional status output is configured, the respective relay contact will close, provided the "Window / door supervision" event for the status output is activated

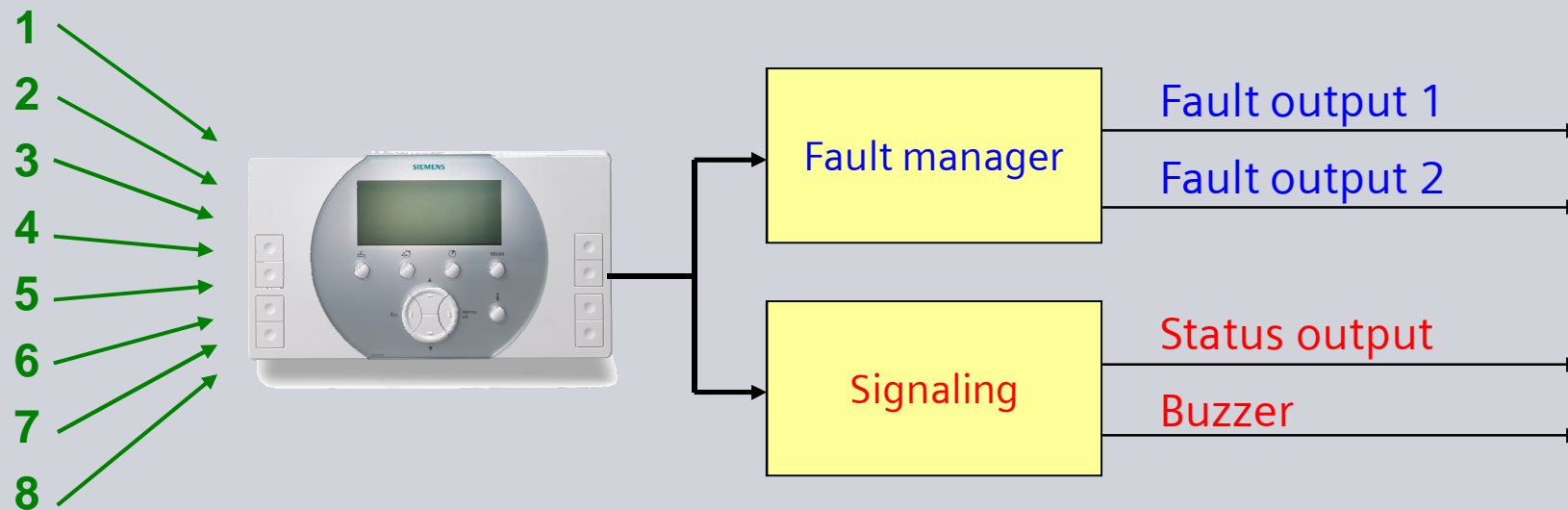
Note:

Both buzzer and status relay will again be deactivated when the set signal duration has elapsed, or by pressing a button on the central apartment unit, independent of the state of window / door supervision.



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Fault Inputs



On the central apartment unit, up to 8 universal digital fault inputs available. Typical input signals at these inputs are:

- Level switch (e.g. for oil level)
- Alarm output of an intrusion alarm system
- Thermal switch

If a fault is detected at one of the fault inputs, it will be forwarded to the central apartment unit's fault manager and signaling section.



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Fault Inputs

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Per fault input, the following options are available as physical fault inputs:

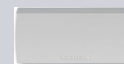
- Universal input B at the central apartment unit



- Universal input B of heating circuit controller RRV91x or a multicontroller RRV934



- Door / window contact AP260



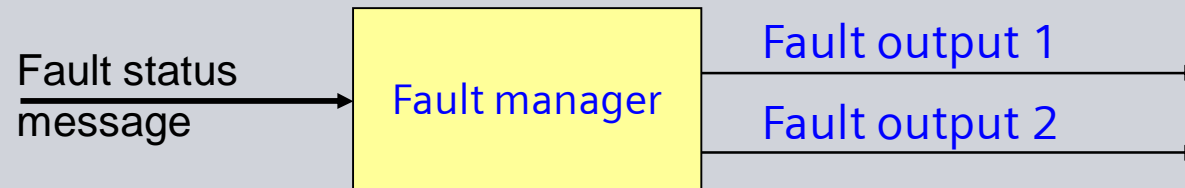
- S-mode input via KNX TP1 (configuration with ETS)




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Fault Inputs

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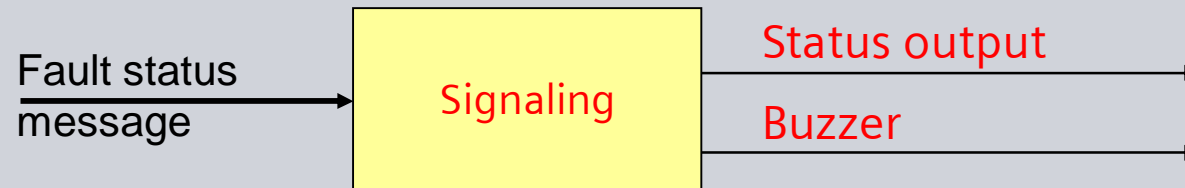
As soon as the central apartment unit's fault manager receives a fault status message from one of the fault inputs, the following actions will be executed:

- Display of an alarm text on the info page
- The quiescent picture shows symbol 
- The fault is saved in the fault history (10 entries)
- Delivery of a fault status message via KNX TP1, provided there is no other, more severe fault pending in the system
- If optional fault output 1 or 2 is configured, the relevant relay contact will close



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Fault Inputs



As soon as the central apartment unit's signaling section receives a fault status message from one of the fault inputs, the following actions will be executed:

- Activation of the central apartment unit's built-in buzzer, provided the "Fault input x" event for the buzzer is activated
- If the optional status output is configured, the respective relay contact will close, provided the "Fault input" event for the status output is activated

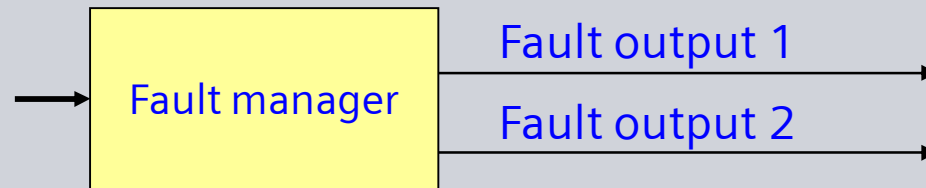
Note:

Both buzzer and status relay will again be deactivated when the set signal duration has elapsed, or by pressing a button on the central apartment unit, independent of the state of the fault input.



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Fault Outputs



The following optional outputs are available as physical fault outputs:

- Relay output Q at the central apartment unit



- Relay output Q of a heating circuit controller RRV91x or a multicontroller RRV934



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Buzzer

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The central apartment unit's built-in buzzer responds in the following situations:

- After successful binding
=> short signal tone
- After each successful binding test
=> 3 short signal tones
- After occurrence of one of the following events (if defined):
 - Smoke
 - Window / door supervision
 - Fault input 1...8
=> continuous tone with adjustable signal duration



Introduction Safety & Security Status Output

At the status input, a horn or flash light can be connected, if the built-in buzzer is not sufficient.



The following outputs are available as physical status outputs:

- Relay output Q at the central apartment unit
- Relay output Q of a heating circuit controller RRV91x or a multicontroller RRV934
- S-mode output via KNX TP1 (configuration with ETS)



Introduction Safety & Security Status Output

After occurrence of one of the following events, the status output will be closed for the adjustable signal duration:

- Smoke
- Window / door supervision
- Fault input 1 ... 8

