Sensors and Controls

DALI XC in MC mode

At a glance



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1. Configuration of operating mode "MC"

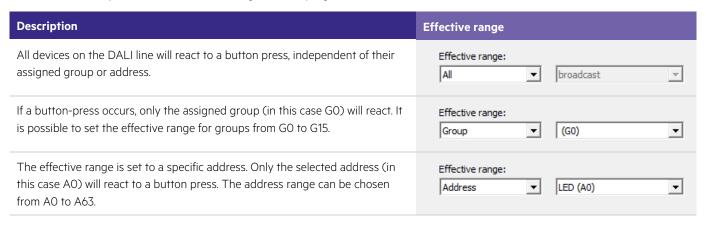


In the MC operating mode, single momentary-action switches and/or double momentary-action switches and/or standard switches can be used to recall programmed functions. These functions are configured via the masterCONFIGURATOR software.

The Config rotary selector switch has no function. The DALI XC has four inputs **(T1–T4)**. The effective range of the respective input and its function can be set in the tabs T1, T2, T3 and T4.

2. Defining the range

For each of the 4 inputs, different effective ranges can be programmed:



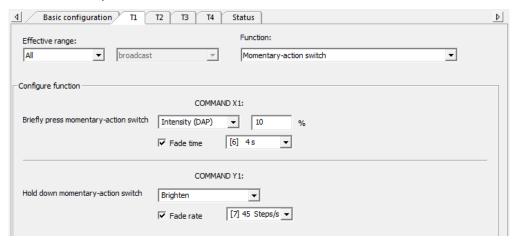
3. Functions



With the masterCONFIGURATOR software, it is possible to assign one of a total of 7 different functions to each button input. This allows the DALI XC to be used in a wide range of applications with different switches. The following functions are supported by the DALI XC:

- Momentary-action switch, S. 4
- _ Changeover switch, S. 5
- _ Standard switch, S. 6
- _ Macro: stairwell function, S. 7
- _ Macro: dynamic scene recall, S. 8
- _ Macro: sequential scene recall, S. 9
- _ Macro: user-defined command sequence, S. 10

3.1. Momentary-action switch



A momentary-action switch is used to switch ON/OFF luminaires, set individual light levels or recall scenes.

- _ Briefly pressing the momentary-action switch will send command X1 one time.
- _ Holding down the momentary-action switch will send command Y1. The commands are repeatedly sent for as long as the momentary-action switch is held down.

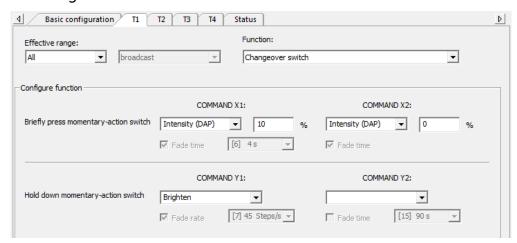
The possible commands which can be sent are described further in the masterCONFIGURATOR manual.



By the use of certain commands, it is possible to set a fade rate / fade time. It must be considered that the stored fade rate / fade time values in the affected control gear will be overwritten by the commands of the DALI XC if these options remain ticked.

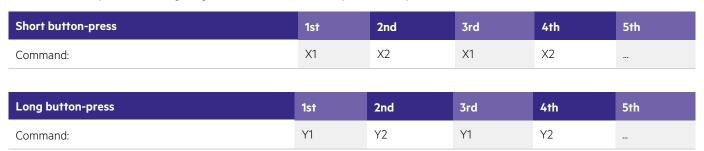


3.2. Changeover switch



Momentary-action switches can be used to switch ON/OFF luminaires, set individual light levels or recall scenes. On each brief press, command X1 and command X2 are sent in alternating sequence.

Each time the momentary-action switch is held down, command Y1 and command Y2 are sent in alternating sequence. The command sent each time depends on the lighting status and is automatically detected by the DALI XC.



The possible commands which can be sent are described further in the masterCONFIGURATOR manual.



3.3. Standard switch



Depending on the state of the switch, the DALI XC will send its corresponding command X1 or Y1 onto the DALI line. The possible commands, which can be sent, are described further in the masterCONFIGURATOR manual.



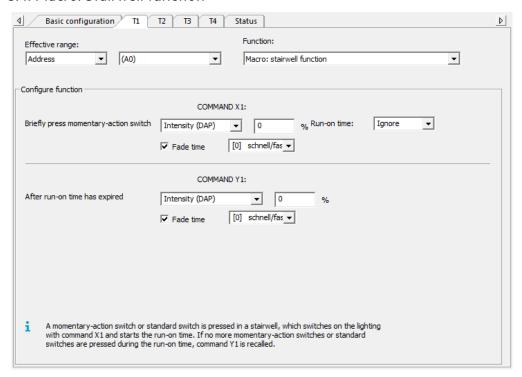
By the use of certain commands, it is possible to set a fade rate / fade time. It must be considered, that the stored fade rate / fade time values in the affected control gears will be overwritten by the commands of the DALI XC if these options remain ticked.

In the lighting-linked mode, the DALI XC recognizes the status of the lighting installation. A use-case would be a corridor with one DALI XC on each entrance. For example, if the light is switched ON with XC1, XC2 knows that it has to turn the light OFF. The same scheme applies vice versa.



For each DALI XC in an installation, the lighting-linked mode has to be activated, otherwise the mentioned behaviour does not work as expected.

3.4. Macro: Stairwell function



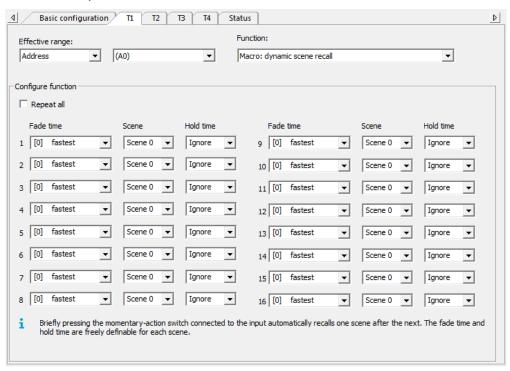
A momentary-action switch is pressed in a stairwell, which switches ON the lighting with command X1 and starts the run-on time. If no momentary-action switch or standard switch is pressed during the run-on time, command Y1 is recalled.

Possible commands which can be sent are described further in the masterCONFIGURATOR manual.



By the use of certain commands, it is possible to set a fade rate / fade time. It must be considered, that the stored fade rate / fade time values in the affected control gears will be overwritten by the commands of the DALI XC if these options remain ticked.

3.5. Macro: dynamic scene recall

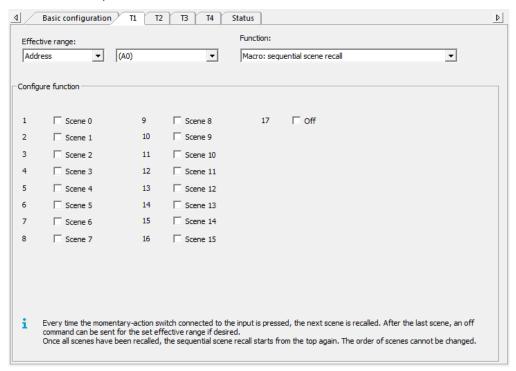


A dynamic scene recall can consist of up to 16 scene recalls that are automatically recalled one after the other. The order of scenes can be selected freely. Scenes may occur more than once in a dynamic scene recall.

A fade time and hold time are defined for each scene. A brief press starts the dynamic scene recall and one scene after the other is recalled. If a brief press occurs again, the dynamic scene recall will be interrupted and the last scene recalled remains active. If the momentary-action switch is pressed again, the dynamic scene recall is continued. By holding down the momentary-action switch stops the dynamic scene recall and an OFF command will be sent. Briefly pressing the momentary-action switch again starts the dynamic scene recall again from the start.



3.6. Macro: sequential scene recall

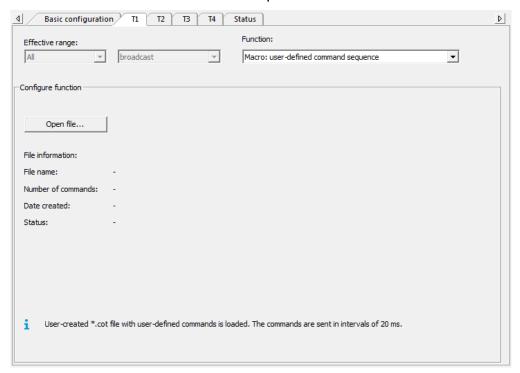


Every time a momentary-action switch is pressed, the next scene is recalled. After the last scene, an OFF command can be sent for the set effective range if desired. Once all scenes have been recalled, the sequential scene recall starts from the top again. The order of scenes cannot be changed. The scenes are always recalled in ascending order.



If another device sends an OFF command to the effective range or to all the control gear connected to the control line, this is interpreted by the DALI XC as an OFF command and the sequential scene recall is stopped. With the next key press, the sequential scene call starts again.

3.7. Macro: user-defined command sequence



With the use of the user-defined command sequence, it is possible to save *.cot files with user-defined commands in the DALI XC. Every time the momentary-action switch is pressed, the user-defined command sequence is recalled.

The *.cot file can be created using the command-sequence tab in the masterCONFIGURATOR. More informations about creating a *.cot file can be found in the masterCONFIGURATOR manual.

Note that:

- _ the COT-File must not be longer than 20 commands. If the file exceeds the maximum count of commands, only the first twenty commands are saved in the DALI XC, the remaining get lost.
- $_\,\,$ the effective range (broadcast / group / address) must be defined in the *.cot.
- _ the delay time for sending the commands must be 20 ms. If a different time is defined for sending the commands, the masterCONFIGURATOR software ignores this information and uses 20 ms instead.