Application Descriptions

Common Functional Blocks

Adjustable E-Mode Channels

Summary

This document provides the specification of the Adjustable E-Mode Channels.

Version 01.00.02 is a KNX Approved Standard.

This document is part of the KNX Specifications v2.1.

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Document updates

Version	Date	Modifications
0.1	2007.10.01	Document creation. • **S12 "Channel Codes"** integrated.
	2007.10.03	• **AN050 "AN to Supplement 12"** integrated.
	2007.10.05	• **AN051 "New E-Mode Channels"** integrated.
	2007.10.18	• **AN078 "New E-Mode Channels 2005.02"** integrated.
	2008.08.09	• **AN106 "Phasing out TP0"** integrated. • **AN107 "Phasing out LT-R"** integrated. • **AN108 "Phasing out LT-S"** integrated. • **AN109 "Phasing out PL132"** integrated. • **AN110 "Phasing out A-Mode"** integrated.
1.0	2009.05.06	Preparation of the AS in preparation of integration in KNX Specifications v2.0.
01.00.01	2013.10.29	Editorial updates for the publication of KNX Specifications 2.1.
01.00.02	2013.11.29	Editorial updates.

References

[01]   Chapter 7/1/2   "Common Sensors"
[02]   Chapter 7/10/2   "HVAC HMI Functional Blocks"
[03]   Chapter 7/20/1   "Lighting Sensors"
[04]   Chapter 7/50/1   "Shutters and Blinds Sensors"
[05]   Chapter 7/50/11   "Shutters and Blinds E-Mode Channels"

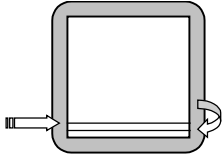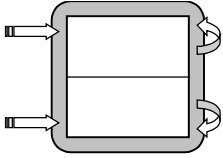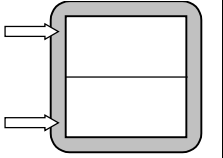# Contents

1 Introduction

1.1 Definition

Adjustable E-Mode Channels (or Generic E-Mode Channels) come from the today requirements. These E-Mode Channels are able to work as a lighting switch, as a dimming push button, as a blind sensor, with each function configurable. The Generic E-Mode Channel is based on the feature of an application level process (a controller for example) to adjust the predefined application to its actual target function. The following features are used:

- Standard E-Mode Channels for each implemented function inside the Generic E-Mode Channel.

- Possibility to have E-Mode Channels with dummy Datapoints.

- A Parameter (named Adjustable Select = "ajs") inside the E-Mode Channel to adjust the used functionality.
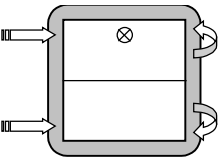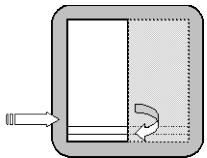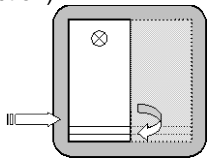
NOTE　　For localisation in Ctrl-Mode, use the localisation Datapoint of the current selection. If default (not configured), use the Datapoint from the default line in the adjustable table.

1.2 Application

The appliance is drawn in the following overview.

Push Button	Switch released	Switch fixed pos	Push Button Info
One pressing point release after press	Two pressing points released after press into independent position	Two pressing points staying in last position	One pressing point release after press with indication lamp
possible E-Mode Channels	possible E-Mode Channels	possible E-Mode Channels	possible E-Mode Channels
CH_Push-Button	CH_Push-Button[3]	CH_Push-Button[3]	CH_Push-Button[1]
CH_PB_Toggle	CH_PB_Toggle[3]	CH_PB_Toggle[3] (???)[7]	CH_PB_Toggle[2]
	CH_Switch	CH_Switch[6]	
CH_PB_Scene_Numbered	CH_Switch_Scene_Numbered		CH_PB_Scene_Numbered[1]
CH_PB_Scene	CH_Switch_Scene		CH_PB_Scene[1]
	CH_Switch_Forced	CH_Switch_Forced	
CH_PB_Timed StartStop	CH_PB_Timed StartStop[5]		CH_PB_Timed StartStop_Info
	CH_Switch_Dimmer		
CH_PB_Dimmer_Toggle	CH_Switch_Dimmer_Toggle[4]		CH_PB_Dimmer_Toggle[2]
	CH_Switch_Sunblind		
CH_PB_Sunblind_Toggle			CH_PB_Shutter_Toggle[1]

NOTES　1. Without Info functionality (display status) via feedback.

2. Info functionality (display status) derived from the Info OnOff Datapoint.

3. The interaction point is on top <u>and</u> on bottom.

4. The toggle functionality is on top <u>and</u> on bottom for interaction 1 only.
The long press on top <u>or</u> on bottom is like standard dimming behaviour.

5. It is assumed that it is possible to send manually off on second interaction (bottom).

6. It's critical to use this E-Mode Channel type in parallel.

7. The use of this function is not clear to the end user.

Switch release end Info	Push Button ½	Push Button ½ Info	Binary contact
Two pressing points released after press into independent position with indication lamp	One pressing point released after press, possibility to combine two of them to one function (= ½-function)	One pressing point release after press with indication lamp, possibility to combine two of them to one function (= ½-function)	Binary input functionality
possible E-Mode Channels	possible E-Mode Channels	possible E-Mode Channels	possible E-Mode Channels
	CH_Push-Button	CH_Push-Button[1]	
	CH_PB_Toggle	CH_PB_Toggle[2]	
CH_Switch_Info	---	---	
CH_Switch_Scene_Numbered[1]	CH_PB_Scene_Numbered	CH_PB_Scene_-Numbered[1]	
	CH_PB_Scene	CH_PB_Scene[1]	
CH_Switch_Forced[8]			CH_Switch_Forced
CH_PB_Timed_ON_Info[5]	CH_PB_Timed_ON	CH_PB_Timed_ON_Info	
CH_Switch_Dimmer_Info	CH_PB_Dimmer[9]	CH_PB_Dimmer_info[9]	
	CH_PB_Dimmer_Toggle	CH_PB_Dimmer_Toggle	
CH_Switch_Sunblind[1]	CH_PB_Blind[9]	CH_PB_Blind[9]	
	CH_PB_Sunblind_Toggle	CH_PB_Sunblind_Toggle	
			CH_Wind_Sensor
			CH_Rain_Sensor

NOTES   1.   The forced state is displayed while listening to the Forced Datapoint.

2.   This is a ½-E-Mode Channel. A second E-Mode Channel of same type is needed for a complete function.

Localisation Datapoints of Adjustable E-Mode Channels

The localisation of the Adjustable E-Mode Channels shall normally be done with unconfigured adjustment (default). For this use, the localisation Datapoint shall be marked with the L-flag.

On other Configuration Modes than Ctrl-Mode the Localisation flag (L-flag) and localisation Datapoint shall be optional. In Configuration Modes with tool access (Ctrl-Mode) if ajs = 0 it is mandatory to send the localisation Datapoint according to the functionality of the default adjustment.

To adjusted Generic E-Mode Channels there are GAs already assigned to the Datapoints that are valid for the selection. This shall be used for localisation.

1.3 Support of scenes

For Scene Number Datapoints, it is mandatory to deal at least with numbers from 1 to 8 (coded 0 to 7). It is allowed to deal with higher values. This shall thus be as specified in Table 1.

Table 1 – Scene numbering and coding in E-Mode Channels

Scene number	Scene letter	Coding
1	A	xx000000b
2	B	xx000001b
3	C	xx000010b
4	D	xx000011b
5	E	xx000100b

6	F	xx000101b
7	G	xx000110b
8	H	xx000111b

2 E-Mode Channels

2.1   CH_Generic_Switch_1 (Channel Code 0300h)

- **Name:**   CH_Generic_Switch_1

- **ID:**   0300h

- **Classification:**   sensor

- **Functional Block(s):**

    - 421 - FB Switching Sensor Basic
    - 2 x 403 - FB Scene Sensor
    - 406 – FB PB Timed Sensor
    - 1020 – FB Priority Sensor
    - 420 – FB Dimming Sensor Basic
    - 801 – FB Sunblind Sensor Basic

- **Graphical representation:**
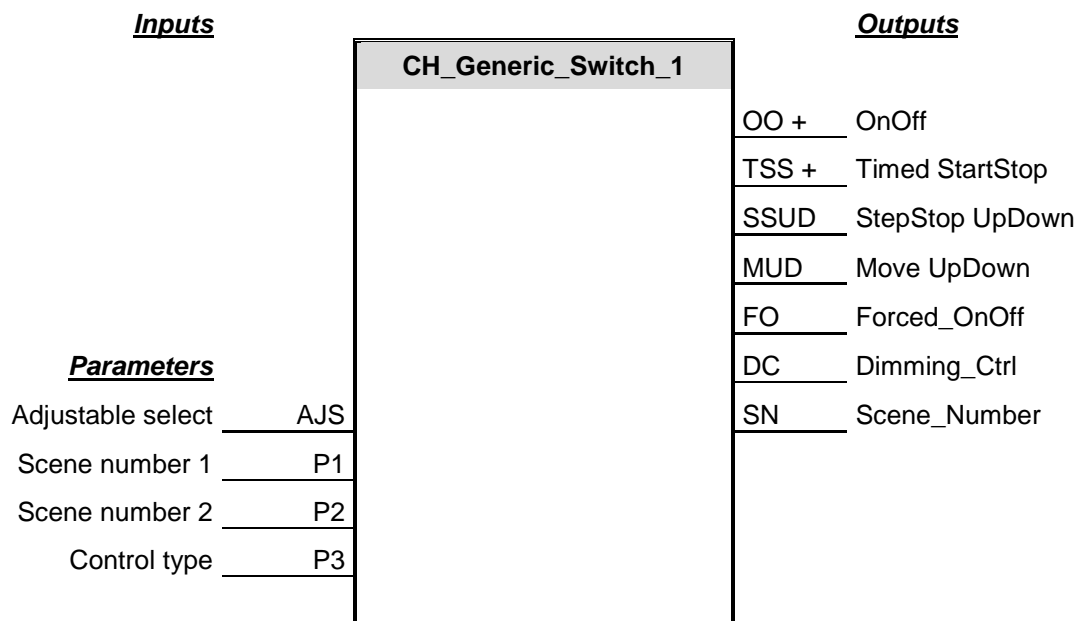
- **Description:**

This E-Mode Channel groups functionality from the given Functional Blocks to a generic switch with ability for switching, numbered scenes, timed, switch forced, dimming and shutter control.

- **Datapoint list:**

Index	FB / DP_Name	Name	Sub-unit	Main CC	Additional CCs	Flags (i/o,x,v,…)
1	401 / OO	OnOff	1	CC_Switch_OnOff	CC_Logical	O L
1	406 / TSS	Timed StartStop	1	CC_Timed		O
1	800 / SSUD	StepStop UpDown	1	CC_StepStop_UpDown		O
2	800 / MUD	Move UpDown	1	CC_Move UpDown	CC_Logical	O
3	405 / FO	Forced_OnOff	1	CC_Forced		O
4	401-410 / DC	Dimmer_Ctrl	1	CC_Dimming_Ctrl		O
5	403 - SN	Scene number	1	CC_Scene_Number		O

- **Adjustable table:**

Selection	Parameter value	Datapoint 1 *Output 1 bit*	Datapoint 2 *Output 1 bit*	Datapoint 3 *Output 2 bits*	Datapoint 4 *Output 4 bits*	Datapoint 5 *Output 8 bits*
Default	0 (none)	OO	-	-	-	-
Switch	CH_Switch	OO	-	-	-	-
Dimming	CH_Switch_Dimmer	OO	-	-	DC	-
Sunblind	CH_Switch_Sunblind	SSUD	MUD	-	-	-
Timed	CH_Timed StartStop	TSS	-	-	-	-
Scene	CH_Switch_Scene_Number	-	-	-	-	SN
Forced	CH_Switch_Forced	-	-	FO	-	-

The corresponding parameter to this adjustable table is parameter index 1 Adjustable selection.

The parameter value corresponds to the E-Mode Channel ID.

- **Parameter table:**

Index	Identifier	Name	Type	Recommended default value	Bit Offset
1	AJS	Adjustable selection	PART_Adaptive_Selection	none (=0)	0
2	P1	Scene number 1	PART_Scene_Number	0	10
3	P2	Scene number 2	PART_Scene_Number	0	18
2	P3	Control type	PART_Boolean	0: Ctrl FALSE	15

- **Parameter overview:**

2.2 CH_Generic_Switch_2 (Channel Code 0301h)

- **Name:**   CH_Generic_Switch_2

- **ID:**   0301h

- **Classification:**   sensor

- **Functional Block(s):**

  - 3 x 421 - FB Switching Sensor Basic
  - 2 x 420 – FB Dimming Sensor Basic
  - 801 – FB Sunblind Sensor Basic
  - 406 – FB PB Timed Sensor
  - 2 x 403 - FB Scene Sensor
  - 1020 – FB Priority Sensor

- **Graphical representation:**
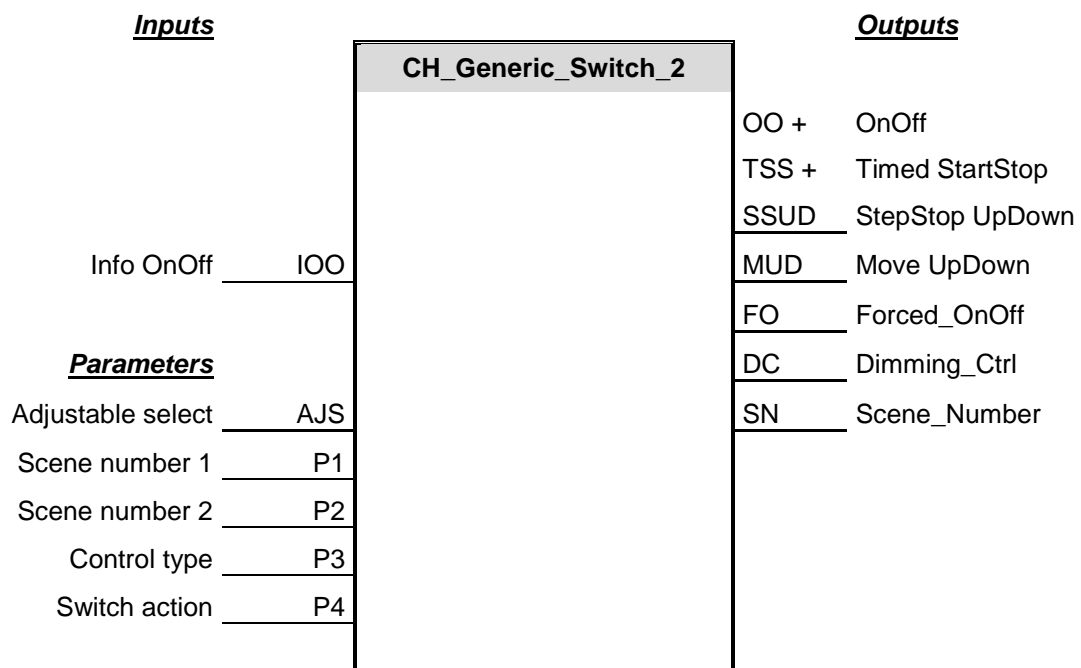
- **Description:**

This E-Mode Channel groups functionality from the given Functional Blocks to a generic switch with ability for switching, numbered scenes, timed, switch forced, dimming and shutter control.

- **Datapoint list:**

Index	FB / DP_Name	Name	Sub-unit	Main CC	Additional CCs	Flags (i/o,x,v,…)
1	407-413 / IOO	Info OnOff	1	CC_Switch_OnOff_Status		I
2	400-407-410-411-413 /OO	OnOff	1	CC_Switch_OnOff	CC_Logical	O L
2	406 / TSS	Timed StartStop	1	CC_Timed		O
2	800 / SSUD	StepStopUpDown	1	CC_StepStop_UpDown		O
3	800 / MUD	Move UpDown	1	CC_Move_UpDown	CC_Logical	O
4	405 / FO	Forced_OnOff	1	CC_Forced		O
5	410-411/DC	Dimmer_Ctrl	1	CC_Dimming_Ctrl		O
6	403 / SN	Scene number	1	CC_Scene_Number		O

- **Adjustable table:**

Selection	Parameter value	Datapoint 1 *Input 1 bit*	Datapoint 2 *Output 1 bit*	Datapoint 3 *Output 1 bit*	Datapoint 4 *Output 2 bits*	Datapoint 5 *Output 4 bits*	Datapoint 6 *Output 8 bits*
Default	0 (none)	-	OO	-	-	-	-
Switch	CH_Switch	-	OO	-	-	-	-
Dimming	CH_Switch_Dimmer	-	OO	-	-	DC	-
Sunblind	CH_Switch_Sunblind	-	SSUD	MUD	-	-	-
Timed	CH_Timed_StartStop	-	TSS	-	-	-	-
Scene	CH_Switch_Scene_Number	-	-	-	-	-	SN
Forced	CH_Switch_Forced	-	-	-	FO	-	-
PB	CH_Push_Button	-	OO	-	-	-	-
Toggle	CH_PB_Toggle	IOO	OO	-	-	-	-
Dimming Toggle	CH_Switch_Dimmer_Toggle	IOO	OO	-	-	DC	-

The corresponding parameter to this adjustable table is parameter index 1 Adjustable selection.

The parameter value corresponds to the E-Mode Channel ID.

- **Parameter table:**

Index	Identifier	Name	Type	Recommended default value	Bit Offset
1	AJS	Adjustable selection	PART_Adaptive_Selection	none (=0)	0
2	P1	Scene number 1	PART_Scene_Number	0	10
3	P2	Scene number 2	PART_Scene_Number	0	18
2	P3	Control type	PART_Boolean	0: Ctrl FALSE	15
2	P4	Switch action	PART_OnOff_Action	11b: OnOff	14

Parameter overview

	0	8	16	23

Adjustable selection = 0 (none)			
Adjustable selection = 1 (switch)			
Adjustable selection = 2 (Switch_Dimmer)			
Adjustable selection = 3 (Switch_Sunblind)			
Adjustable selection = 4 (Timed)			
Adjustable selection = 5 (Scene Number)	Scene Number 1		Scene number 2
Adjustable selection = 6 (Forced)	Control Type →		
Adjustable selection = 7 (Push button)	Switch action →		
Adjustable selection = 8 (PB toggle)			
Adjustable selection = 9 (Switch Dimmer toggle)			

2.3 CH_Generic_Switch_3 (Channel Code 0302h)

- **Name:**   CH_Generic_Switch_3

- **ID:**   0302h

- **Classification:**   sensor

- **Functional Block(s):**

  - 4x 421 - FB Switching Sensor Basic
  - 420 – FB Dimming Sensor Basic
  - 801 – FB Sunblind Sensor Basic
  - 406 – FB PB Timed Sensor
  - 2 x 403 – FB Scene Sensor
  - 1020 – FB Priority Sensor

- **Graphical representation:**
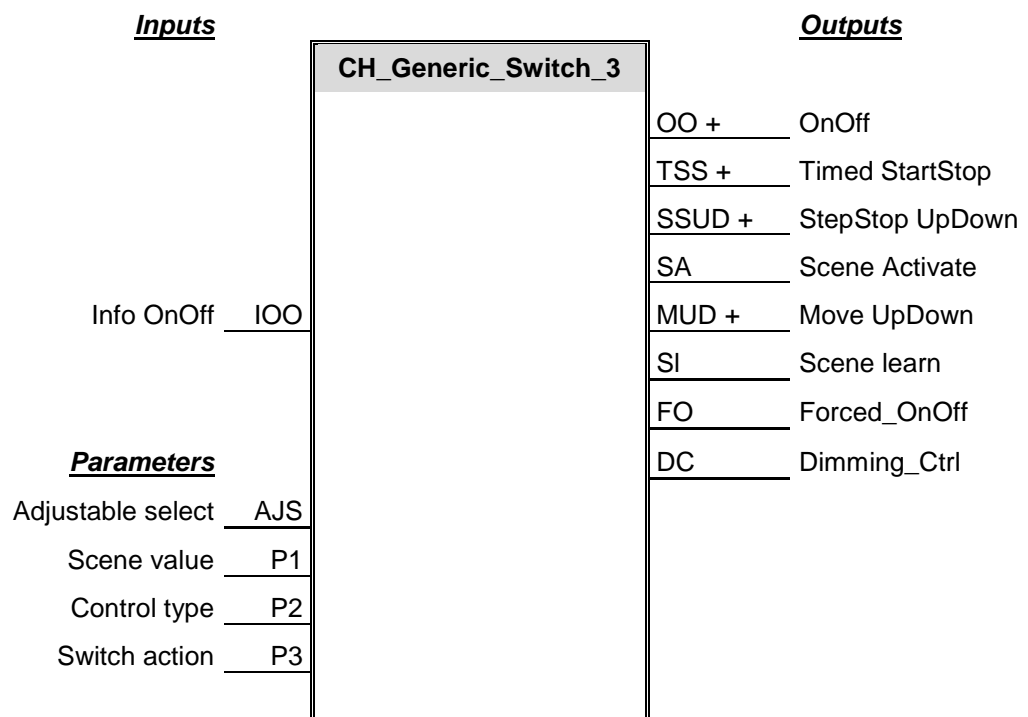
- **Description:**

This E-Mode Channel groups functionality from the given Functional Blocks to a generic switch with ability for switching, numbered scenes, timed, switch forced, dimming and shutter control, and see equivalent descriptions.

- **Datapoint list:**

Index	FB / DP_Name	Name	Sub unit	Main CC	Additional CCs	Flags (i/o,x,v,…)
1	407-411/IOO	Info OnOff	1	CC_Switch_OnOff_Status		I
2	400-401-407-410-411/OO	OnOff	1	CC_Switch_OnOff	CC_Logical	O L
2	406/TSS	Timed StartStop	1	CC_Timed		O
2	800/SSUD	StepStop UpDown	1	CC_StepStop_UpDown		O
2	404/SA	Scene activate	1	CC_Activate		O
3	800/MUD	Move UpDown	1	CC_Move_UpDown	CC_Logical	O

3	404/SL	Scene Learn	1	CC_Learn		O
4	405/FO	Forced_OnOff	1	CC_Forced		O
5	410-411/DC	Dimmer_Ctrl	1	CC_Dimming_Ctrl		O

- **Adjustable table:**

Selection	Parameter value	Datapoint 1 *Input 1 bit*	Datapoint 2 *Output 1 bit*	Datapoint 3 *Output 1 bit*	Datapoint 4 *Output 2 bits*	Datapoint 5 *Output 4 bits*
Default	0 (none)		OO	-	-	-
Switch	CH_Switch		OO	-	-	-
Dimming	CH_Switch_Dimmer		OO	-	-	DC
Sunblind	CH_Switch_Sunblind		SSUD	MUD	-	-
Timed	CH_Timed_StartStop		TSS	-	-	-
Scene	CH_Switch_Scene		SA	SL	-	-
Forced	CH_Switch_Forced		-	-	FO	-
PB	CH_Push_Button	-	OO	-	-	-
Toggle	CH_PB_Toggle	IOO	OO	-	-	-
Dimming Toggle	CH_Switch_Dimmer_Toggle	IOO	OO	-	-	DC

The corresponding parameter to this adjustable table is parameter index 1 Adjustable selection.

The parameter value corresponds to the E-Mode Channel ID.

- **Parameter table:**

Index	Identifier	Name	Type	Recommended default value	Bit Offset
1	AJS	Adjustable selection	PART_Adaptive_Selection	none (=0)	0
2	P1	Scene value	PART_Scene_Value	1	15
2	P2	Control type	PART_Boolean	0: Ctrl FALSE	15
2	P3	Switch action	PART_OnOff_Action	11b : OnOff	14

- **Parameter overview**

0	8	15

Adjustable selection = 0 (none)	
Adjustable selection = 1 (switch)	
Adjustable selection = 2 (Switch_Dimmer)	
Adjustable selection = 3 (Switch_Sunblind)	
Adjustable selection = 4 (Timed)	
Adjustable selection = 5 (Switch scene)	Scene Value →
Adjustable selection = 6 (Forced)	Control Type →
Adjustable selection = 7 (Push button)	Switch action →
Adjustable selection = 8 (PB toggle)	
Adjustable selection = 9 (Switch Dimmer toggle)	

2.4 CH_Generic_Switch_4 (Channel Code 0303h)

- **Name:**   CH_Generic_Switch_4

- **ID:**   0303h

- **Classification:**   sensor

- **Functional Block(s):**

  - 421 - FB Switching Sensor Basic
  - 420 – FB Dimming Sensor Basic
  - 801 – FB Sunblind Sensor Basic

- **Graphical representation:**

Inputs   *Outputs*

CH_Generic_Switch_4

OO +   OnOff
SSUD   StepStop UpDown
MUD   Move UpDown
DC   Dimming_Ctrl

Parameters

Adjustable select   AJS

- **Description:**

This E-Mode Channel groups functionality from the given Functional Blocks to a generic switch with ability for switching, dimming and shutter control.

- **Datapoint list:**

Index	FB / DP_Name	Name	Sub-unit	Main CC	Additional CCs	Flags (i/o,x,v,…)
1	401-410/OO	OnOff	1	CC_Switch_OnOff	CC_Logical	O L
1	800/SSUD	StepStop UpDown	1	CC_StepStop_UpDown		O
2	800/MUD	Move UpDown	1	CC_Move_UpDown	CC_Logical	O
3	410/DC	Dimmer_Ctrl	1	CC_Dimming_Ctrl		O

- **Adjustable table:**

Selection	Parameter value	Datapoint 1 *Output 1 bit*	Datapoint 2 *Output 1 bit*	Datapoint 3 *Output 4 bits*
Default	0 (none)	OO	-	-
Switch	CH_Switch	OO	-	-
Dimming	CH_Switch_Dimmer	OO	-	DC
Sunblind	CH_Switch_Sunblind	SUD	MUD	-

The corresponding parameter to this adjustable table is parameter index 1 Adjustable selection.

The parameter value corresponds to the E-Mode Channel ID.

- **Parameter table**

Index	Identifier	Name	Type	Recommended default value	Bit Offset
1	AJS	Adjustable selection	PART_Adaptive_Selection	none (=0)	0

- **Parameter overview**

0   7

Adjustable selection = 0 (none)
Adjustable selection = 1 (switch)
Adjustable selection = 2 (Switch_Dimmer)
Adjustable selection = 3 (Switch_Sunblind)

2.5 CH_Generic_Switch_Info_1 (Channel Code 0304h)

- **Name:**   CH_Generic_Switch_Info_1

- **ID:**   0304h

- **Classification:**   sensor

- **Functional Block(s):**

    - 421 - FB Switching Sensor Basic
    - 2 x 403 - FB Scene Sensor
    - 406 – FB PB Timed Sensor
    - 1020 – FB Priority Sensor
    - 420 – FB Dimming Sensor Basic
    - 801 – FB Sunblind Sensor Basic

- **Graphical representation:**

- **Description:**

This E-Mode Channel groups functionality from the given Functional Blocks to a generic switch with ability for switching, numbered scenes, timed, switch forced, dimming and shutter control.

- **Datapoint list:**

Index	FB / DP_Name	Name	Sub-unit	Main CC	Additional CCs	Flags (i/o,x,v,…)
1	402/IOO	Info OnOff	1	CC_Switch_OnOff_Status		I
2	401-410/OO	OnOff	1	CC_Switch_OnOff	CC_Logical	O L
2	406/TSS	Timed StartStop	1	CC_Timed		O
2	800/SSUD	StepStop UpDown	1	CC_StepStop_UpDown		O
3	800/MUD	Move UpDown	1	CC_Move_UpDown	CC_Logical	O
4	405/FO	Forced_OnOff	1	CC_Forced		O
5	410/DC	Dimmer_Ctrl	1	CC_Dimming_Ctrl		O
6	403/SN	Scene number	1	CC_Scene_Number		O

- **Adjustable table:**

Selection	Parameter value	Datapoint 1 *Intput1 bit*	Datapoint 2 *Output 1 bit*	Datapoint 3 *Output 1 bit*	Datapoint 4 *Output 2 bits*	Datapoint 5 *Output 4 bits*	Datapoint 6 *Output 8 bits*
Default	0 (none)	-	OO	-	-	-	-
Switch	CH_Switch_Info	IOO	OO	-	-	-	-
Dimming	CH_Switch_Dimmer_Info	IOO	OO	-	-	DC	-
Sunblind	CH_Switch_Sunblind	-	SSUD	MUD	-	-	-
Timed	CH_Timed_StartStop_Info	IOO	TSS	-	-	-	-
Scene	CH_Switch_Scene_Number	-	-	-	-	-	SN
Forced	CH_Switch_Forced	-	-	-	FO	-	-

The corresponding parameter to this adjustable table is parameter index 1 Adjustable selection.

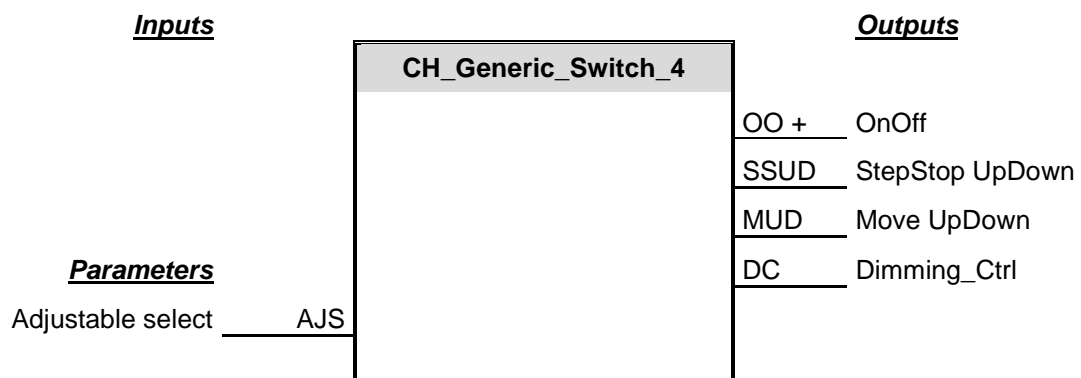The parameter value corresponds to the E-Mode Channel ID.

- **Parameter table:**

Index	Identifier	Name	Type	Recommended default value	Bit Offset
1	AJS	Adjustable selection	PART_Adaptive_Selection	none (=0)	0
2	P1	Scene number 1	PART_Scene_Number	0	10
3	P2	Scene number 2	PART_Scene_Number	0	18
2	P3	Control type	PART_Boolean	0: Ctrl FALSE	15

- **Parameter overview**

2.6 CH_Generic_Switch_Info_2 (Channel Code 0305h)

- **Name:**　　　　　　　　　　CH_Generic_Switch_Info_2

- **ID:**　　　　　　　　　　　0305h

- **Classification:**　　　　　　sensor

- **Functional Block(s):**

  - 421 - FB Switching Sensor Basic
  - 420 – FB Dimming Sensor Basic
  - 801 – FB Sunblind Sensor Basic

- **Graphical representation:**

- **Description:**

This E-Mode Channel groups functionality from the given Functional Blocks to a generic switch with ability for switching, numbered scenes, timed, switch forced, dimming and shutter control.

- **Datapoint list:**

Index	FB / DP_Name	Name	Sub unit	Main CC	Additional CCs	Flags (i/o,x,v,…)
1	402/IOO	Info OnOff	1	CC_Switch_OnOff_Status		I
2	401-410/OO	OnOff	1	CC_Switch_OnOff	CC_Logical	O L
2	800/SSUD	StepStop UpDown	1	CC_StepStop_UpDown		O
3	800/MUD	Move UpDown	1	CC_Move_UpDown	CC_Logical	O
4	410/DC	Dimmer_Ctrl	1	CC_Dimming_Ctrl		O

- **Adjustable table:**

Selection	Parameter value	Datapoint 1 Intput1 bit	Datapoint 2 Output 1 bit	Datapoint 3 Output 1 bit	Datapoint 4 Output 4 bits
Default	0 (none)	-	OO	-	-
Switch	CH_Switch_Info	IOO	OO	-	-
Dimming	CH_Switch_Dimmer_Info	IOO	OO	-	DC
Sunblind	CH_Switch_Sunblind	-	SSUD	MUD	-

The corresponding parameter to this adjustable table is parameter index 1 Adjustable selection.

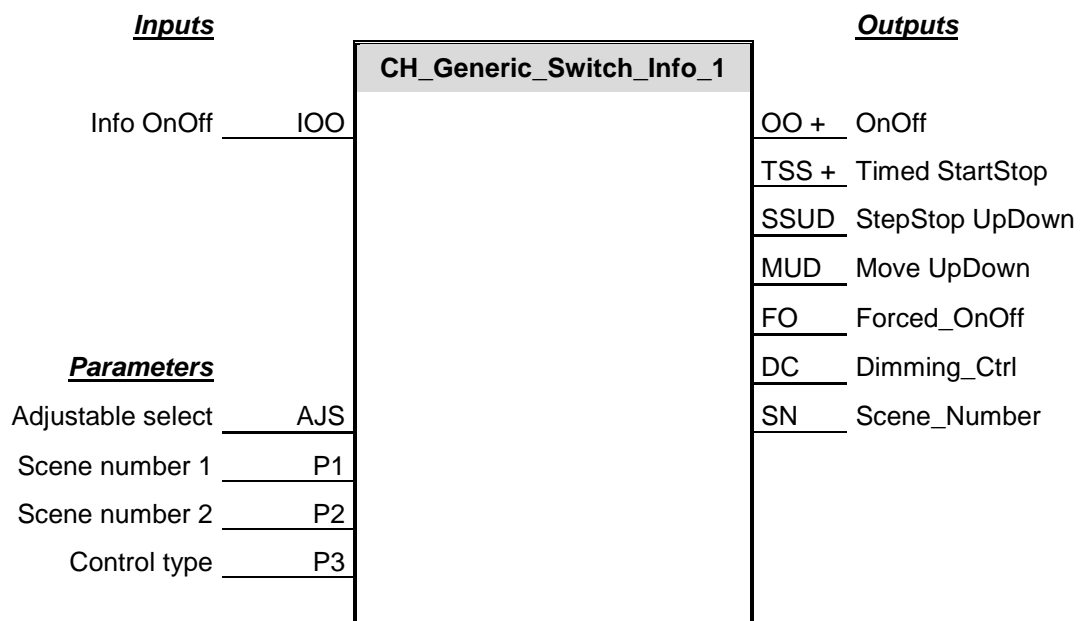The parameter value corresponds to the E-Mode Channel ID.

- **Parameter table:**

Index	Identifier	Name	Type	Recommended default value	Bit Offset
1	AJS	Adjustable selection	PART_Adaptive_Selection	none (=0)	0

- **Parameter overview**

0   7

Adjustable selection = 0
(none)
Adjustable selection = 1
(switch info)
Adjustable selection = 2
(Switch_Dimmer info)
Adjustable selection = 3
(Switch_sunblind)

2.7 CH_Generic_Switch_FixedPos_1 (Channel Code 0306h)

- **Name:**   CH_Generic_Switch_FixedPos_1

- **ID:**   0306h

- **Classification:**   sensor

- **Functional Block(s):**

  - 421 - FB Switching Sensor Basic
  - 1020 – FB Priority Sensor
  - 421 – FB Switching Sensor Basic
  - 421 – FB Switching Sensor Basic

- **Graphical representation:**

Inputs		**CH_Generic_Switch_FixedPos_1**		*Outputs*
Info OnOff	IOO		OO	OnOff
			FO	Forced
Parameters				
Adjustable select	AJS			
Control type	P1			
Switch action	P2			

- **Description:**

This E-Mode Channel groups functionality from the given Functional Blocks to a generic switch with ability for switching

- **Datapoint list:**

Index	FB / DP_Name	Name	Subunit	Main CC	Additional	Flags

					CCs	**(i/o,x,v,…)**
1	407/IOO	Info OnOff	1	CC_Switch_OnOff_Status		I
2	400-401-407/OO	OnOff	1	CC_Switch_OnOff	CC_Logical	O L
3	405/FO	Forced	1	CC_Forced		O

- **Adjustable table:**

Selection	Parameter value	Datapoint 1 *Input 1 bis*	Datapoint 2 *Output 1 bit*	Datapoint 3 *Output 2 bit*
Default	0 (none)	-	OO	-
Toggle	CH_PB_Toggle	IOO	OO	-
Switch	CH_Switch	-	OO	-
PB	CH_Push_Button	-	OO	-
Forced	CH_Switch_Forced	-	-	FO

The corresponding parameter to this adjustable table is parameter index 1 Adjustable selection.

The parameter value corresponds to the E-Mode Channel ID.
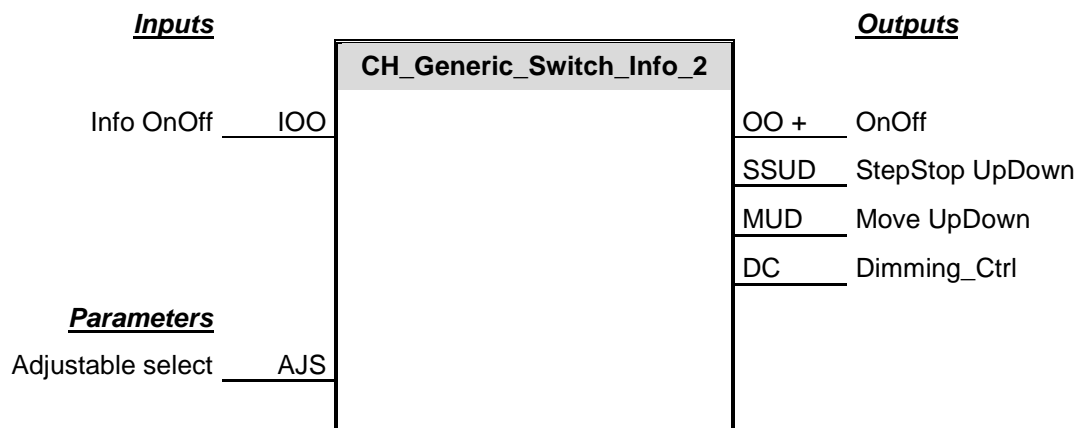
- **Parameter table:**

Index	Identifier	Name	Type	Recommended default value	Bit Offset
1	AJS	Adjustable selection	PART_Adaptive_Selection	none (=0)	0
2	P1	Control type	PART_Boolean	0: Ctrl FALSE	15
2	P2	Switch action	PART_OnOff_Action	11b : OnOff	14

- **Parameter overview**

2.8 CH_Generic_Switch_FixedPos_2 (Channel Code 0307h)

- **Name:**   CH_Generic_Switch_FixedPos_2

- **ID:**   0307h

- **Classification:**   sensor

- **Functional Block(s):**
    - 421 - FB Switching Sensor Basic

- **Graphical representation:**
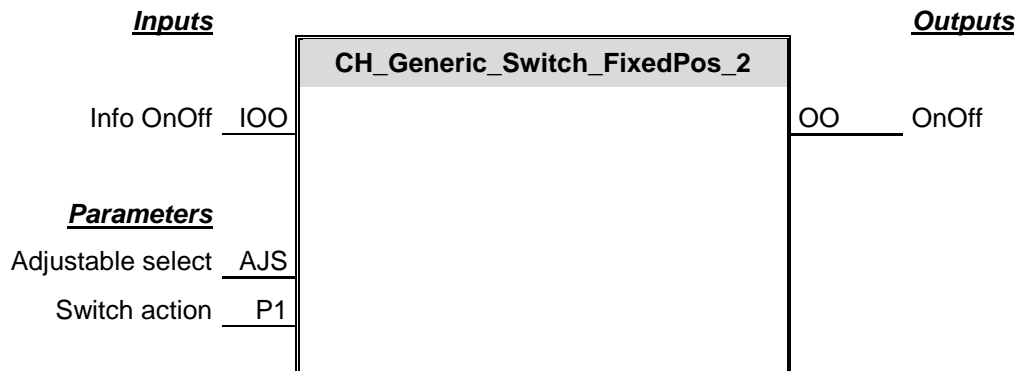
- **Description:**

This E-Mode Channel groups functionality from the given Functional Blocks to a generic switch with ability for switching

- **Datapoint list:**

Index	FB / DP_Name	Name	Subunit	Main CC	Additional CCs	Flags (i/o,x,v,…)
1	407/IOO	Info OnOff	1	CC_Switch_OnOff_Status		I
2	400-401-407/OO	OnOff	1	CC_Switch_OnOff	CC_Logical	O L

- **Adjustable table**

Selection	Parameter value	Datapoint 1 *Input 1 bis*	Datapoint 2 *Output 1 bit*
Default	0 (none)	-	OO
Toggle	CH_PB_Toggle	IOO	OO
Switch	CH_Switch	-	OO
PB	CH_Push_Button	-	OO

The corresponding parameter to this adjustable table is parameter index 1 Adjustable selection.

The parameter value corresponds to the E-Mode Channel ID.

- **Parameter table:**

Index	Identifier	Name	Type	Recommended default value	Bit Offset
1	AJS	Adjustable selection	PART_Adaptive_Selection	none (=0)	0
2	P1	Switch action	PART_OnOff_Action	11b : OnOff	14

- **Parameter overview**

0	8	15
Adjustable selection = 0 (none)		
Adjustable selection = 1 (PB toggle)		
Adjustable selection = 2 (switch)		
Adjustable selection = 3 (Push button)	Switch action ⟶	

2.9   CH_Generic_PB_Info_1 (Channel Code 0308h)

- **Name:**   CH_Generic_PB_Info_1
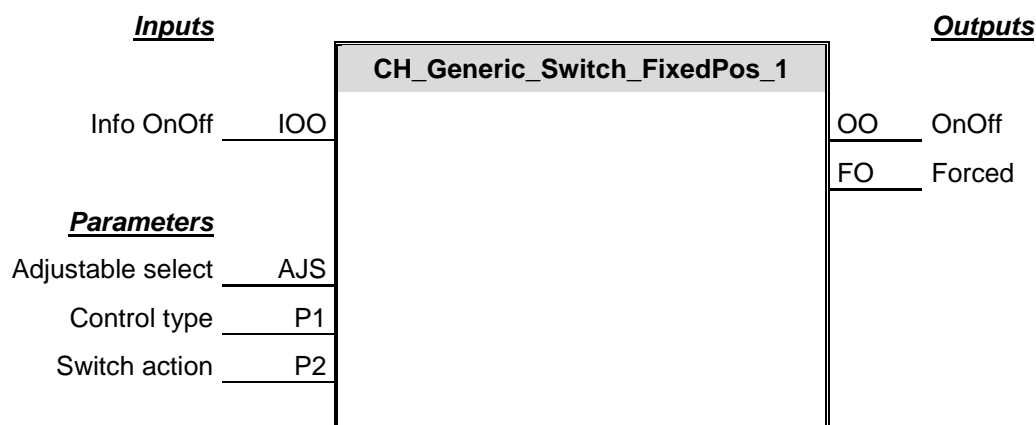
- **ID:**   0308h

- **Classification:**   sensor

- **Functional Block(s):**

    - 2x 421 – FB Switching Sensor Basic
    - 420 – FB Dimming Sensor Basic
    - 801 – FB Sunblind Sensor Basic
    - 403 - FB Scene Sensor
    - 406 – FB PB Timed Sensor

- **Graphical representation:**

Inputs		*Outputs*

CH_Generic_PB_Info_1

Inputs			Outputs
		OO +	OnOff
		TSS +	Timed StartStop
Info OnOff	IOO +	SSUD	StepStop UpDown
Info Move UpDown	IMUD	MUD	Move UpDown
		DC	Dimming_Ctrl
Parameters		SN	Scene_Number
Adjustable select	AJS		
Switch action	P1		
Scene number	P2		

-

- **Description:**

This E-Mode Channel groups functionality from the given Functional Blocks to a generic switch with ability for switching, numbered scenes, timed, switch forced, dimming and shutter control.

REMARK   To avoid multiplication of generic PB, this E-Mode Channel is usable even if no info is displayed to the user.

- **Datapoint list:**

Index	FB / DP_Name	Name	Sub unit	Main CC	Additional CCs	Flags (i/o,x,v,…)
1	407-413/IOO	Info OnOff	1	CC_Switch_OnOff_Status		I
1	801/IMUD	Info MUD	1	CC_Move_UpDown_Status		I
2	400-407-413/OO	OnOff	1	CC_Switch_OnOff	CC_Logical	O L
2	406/TSS	Timed StartStop	1	CC_Timed		O
2	801/SSUD	StepStop UpDown	1	CC_StepStop_UpDown		O
3	801/MUD	Move UpDown	1	CC_Move_UpDown	CC_Logical	O
4	413/DC	Dimmer_Ctrl	1	CC_Dimming_Ctrl		O
5	403/SN	Scene number	1	CC_Scene_Number		O

- **Adjustable table:**

Selection	Parameter value	Datapoint 1 *Input 1 bit*	Datapoint 2 *Output 1 bit*	Datapoint 3 *Output 1 bit*	Datapoint 4 *Output 4 bits*	Datapoint 5 *Output 8 bits*
Default	0 (none)	-	OO	-	-	-
Toggle	CH_PB_Toggle	IOO	OO	-	-	-
Dimming Toggle	CH_PB_Dimming_Toggle	IOO	OO	-	DC-	-
Sunblind Toggle	CH_PB_Blind_Toggle	IMUD	SSUD	MUD	-	-
Push Button	CH_Push_Button	-	OO	-	-	-
Timed	CH_Timed_StartStop_Info	IOO	TSS	-	-	-
Scene Number	CH_PB_Scene_-Numbered		-	-	-	SN

The corresponding parameter to this adjustable table is parameter index 1 Adjustable selection.

- **Parameter table:**

Index	Identifier	Name	Type	Recommended default value	Bit Offset
1	AJS	Adjustable selection	PART_Adaptive_Selection	none (= 0)	0
2	P1	Switch action	PART_OnOff_Action	11b : OnOff	14
2	P2	Scene number	PART_Scene_Number	0	10

- **<u>Parameter overview</u>**

0	8	15

Adjustable selection = 0 (none)	
Adjustable selection = 1 (PB toggle)	
Adjustable selection = 2 (PB Dimmer toggle)	
Adjustable selection = 3 (PB sunblind toggle)	
Adjustable selection = 4 (Push button)	Switch action ⟶
Adjustable selection = 5 (Timed)	
Adjustable selection = 6 (Scene Number)	Scene Number

- **<u>Parameter overview</u>**

2.10 CH_Generic_PB_2 (Channel Code 0309h)

- **Name:**   CH_Generic_PB_2

- **ID:**   0309h

- **Classification:**   sensor

- **Functional Block(s):**
    - 2 x 421 – FB Switching Sensor Basic
    - 420 – FB Dimming Sensor Basic
    - 801 – FB Sunblind Sensor Basic
    - 403 – FB Scene Sensor
    - 406 – FB PB Timed Sensor

- **Graphical representation:**
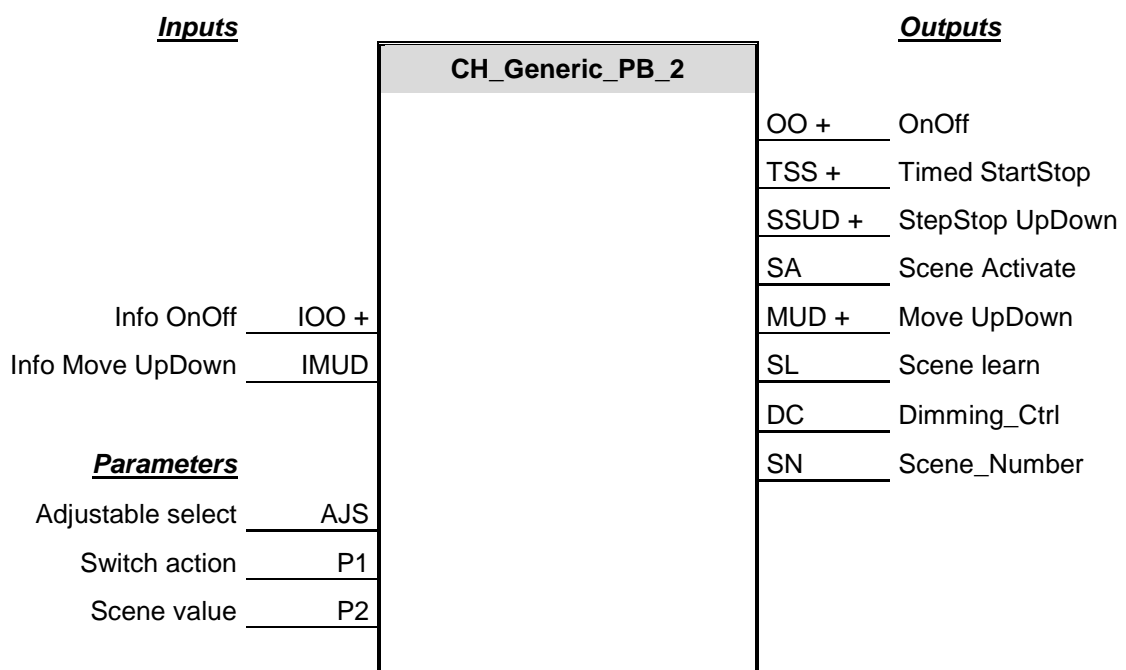
- **Description:**

This E-Mode Channel groups functionality from the given Functional Blocks to a generic switch with ability for switching, scenes, timed, switch forced, dimming and shutter control.

- **Datapoint list:**

Index	FB / DP_Name	Name	Sub unit	Main CC	Additional CCs	Flags (i/o,x,v,…)
1	407-413/IOO	Info OnOff	1	CC_Switch_OnOff_Status		I
1	801/IMUD	Info MUD	1	CC_Move_UpDown_Status		I
2	400-407-413/OO	OnOff	1	CC_Switch_OnOff	CC_Logical	O L
2	406/TSS	Timed StartStop	1	CC_Timed		O
2	801/SSUD	StepStopUpDown	1	CC_StepStop_UpDown		O
2	404/SA	Scene Activate	1	CC_Activate		O
3	801/MUD	Move UpDown	1	CC_Move_UpDown	CC_Logical	O
3	404/SL	Scene Learn	1	CC_Learn		O
4	413/DC	Dimmer_Ctrl	1	CC_Dimming_Ctrl		O

- **Adjustable table:**

Selection	Parameter value	Datapoint 1 *Input 1 bit*	Datapoint 2 *Output 1 bit*	Datapoint 3 *Output 1 bit*	Datapoint 4 *Output 4 bits*
Default	0 (none)	-	OO	-	-
Toggle	CH_PB_Toggle	IOO	OO	-	-
Dimming Toggle	CH_PB_Dimming_Toggle	IOO	OO	-	DC
Sunblind Toggle	CH_PB_Blind_Toggle	IMUD	SSUD	MUD	-
Push Button	CH_Push_Button	-	OO	-	-
Timed	CH_Timed StartStop	-	TSS	-	-
Scene	CH_PB_Scene	-	SA	SL	-

The corresponding parameter to this adjustable table is parameter index 1 Adjustable selection

- **Parameter table:**

Index	Identifier	Name	Type	Recommended default value	Bit Offset
1	AJS	Adjustable selection	PART_Adaptive_Selection	none (=0)	0
2	P1	Switch action	PART_OnOff_Action	11b : OnOff	14
2	P2	Scene value	PART_Scene_Value	1	15

- **Parameter overview**

2.11 CH_Generic_PB_3 (Channel Code 030Ah)

- **Name:**   CH_Generic_PB_3

- **ID:**   030Ah

- **Classification:**   sensor

- **Functional Block(s):**

    - 421 – FB Switching Sensor Basic
    - 420 – FB Dimming Sensor Basic
    - 801 – FB Sunblind Sensor Basic

- **Graphical representation:**

- **Description:**

This E-Mode Channel groups functionality from the given Functional Blocks to a generic switch with ability for switching, dimming and shutter control.

- **Datapoint list:**

Index	FB / DP_Name	Name	Sub-unit	Main CC	Additional CCs	Flags (i/o,x,v,…)
1	407-413/IOO	Info OnOff	1	CC_Switch_OnOff_Status		I
1	801/IMUD	Info MUD	1	CC_Move UpDown_Status		I
2	407-413/OO	OnOff	1	CC_Switch_OnOff	CC_Logical	O L
2	801/SSUD	StepStop UpDown	1	CC_StepStop_UpDown		O
3	801/MUD	Move UpDown	1	CC_Move UpDown	CC_Logical	O
4	413/DC	Dimmer_Ctrl	1	CC_Dimming_Ctrl		O

- **Adjustable table:**

Selection	Parameter value	Datapoint 1 Input 1 bit	Datapoint 2 Output 1 bit	Datapoint 3 Output 1 bit	Datapoint 4 Output 4 bits
Default	0 (none)	-	OO	-	-
Toggle	CH_PB_Toggle	IOO	OO	-	-
Dimming Toggle	CH_PB_Dimming_Toggle	IOO	OO	-	DC
Sunblind Toggle	CH_PB_Blind_Toggle	IMUD	SSUD	MUD	-

The corresponding parameter to this adjustable table is parameter index 1 Adjustable selection

- **Parameter table:**

Index	Identifier	Name	Type	Recommended default value	Bit Offset
1	AJS	Adjustable selection	PART_Adaptive_Selection	none (=0)	0

**Parameter overview**

0   8

Adjustable selection = 0   (none)
Adjustable selection = 1   (PB toggle)
Adjustable selection = 2   (PB Dimmer toggle)
Adjustable selection = 3   (PB Sunblind toggle)

2.12 CH_Generic_PB_4 (Channel Code 030Bh)

- **Name:**   CH_Generic_PB_4

- **ID:**   030Bh

- **Classification:**   sensor

- **Functional Block(s):**

    - 421 – FB Switching Sensor Basic
    - 420 – FB Dimming Sensor Basic
    - 801 – FB Sunblind Sensor Basic

- **Graphical representation:**

Inputs   *Outputs*

		CH_Generic_PB_4		
			OO +	OnOff
Info OnOff	IOO +		SSUD	StepStop UpDown
Info Move UpDown	IMUD		MUD	Move UpDown
			DC	Dimming_Ctrl

Parameters

| Adjustable select | AJS |
| Switch action | P1 |

- **Description:**

This E-Mode Channel groups functionality from the given Functional Blocks to a generic switch with ability for switching, dimming and shutter control.

- **Datapoint list:**

Index	FB / DP_Name	Name	Sub unit	Main CC	Additional CCs	Flags (i/o,x,v,…)
1	407-413/IOO	Info OnOff	1	CC_Switch_OnOff_Status		I
1	801/IMUD	Info MUD	1	CC_Move_UpDown_Status		I
2	400-407-413/OO	OnOff	1	CC_Switch_OnOff	CC_Logical	O L
2	801/SSUD	StepStop UpDown	1	CC_StepStop_UpDown		O
3	801/MUD	Move UpDown	1	CC_Move_UpDown	CC_Logical	O
4	413/DC	Dimmer_Ctrl	1	CC_Dimming_Ctrl		O

- **Adjustable table:**

Selection	Parameter value	Datapoint 1 *Input 1 bit*	Datapoint 2 *Output 1 bit*	Datapoint 3 *Output 1 bit*	Datapoint 4 *Output 4 bits*
Default	0 (none)	-	OO	-	-
Toggle	CH_PB_Toggle	IOO	OO	-	-
Dimming Toggle	CH_PB_Dimming_Toggle	IOO	OO	-	DC
Sunblind Toggle	CH_PB_Blind_Toggle	IMUD	SSUD	MUD	-
Push Button	CH_Push_Button	-	OO	-	-

The corresponding parameter to this adjustable table is parameter index 1 Adjustable selection

- **Parameter table:**

Index	Identifier	Name	Type	Recommended default value	Bit Offset
1	AJS	Adjustable selection	PART_Adaptive_Selection	none (=0)	0
2	P1	Switch action	PART_OnOff_Action	11b : OnOff	14

Parameter overview

2.13 CH_Generic_PB_1/2_1 (Channel Code 030Ch)

- **Name:**   CH_Generic_PB_1/2_1

- **ID:**   030Ch

- **Classification:**   sensor

- **Functional Block(s):**

  - 421 – FB Switching Sensor Basic
  - 420 – FB Dimming Sensor Basic
  - 801 – FB Sunblind Sensor Basic

- **Graphical representation:**

Inputs		CH_Generic_PB_1/2_1		*Outputs*
			OO +	OnOff
			SSUD	StepStop UpDown
Info OnOff	IOO		MUD	Move UpDown
			DC	Dimming_Ctrl
Parameters				
Adjustable select	AJS			
PB action shutter	P1			

- **Description:**

This E-Mode Channel groups functionality from the given Functional Blocks to a generic switch with ability for switching, dimming and shutter control.

- **Datapoint list:**

Index	FB / DP_Name	Name	Sub unit	Main CC	Additional CCs	Flags (i/o,x,v,…)
1	407-413/IOO	Info OnOff	1	CC_Switch_OnOff_Status		I
2	407-413/OO	OnOff	1	CC_Switch_OnOff	CC_Logical	O L
2	801/SSUD	StepStop UpDown	1	CC_StepStop_UpDown		O
3	801/MUD	Move UpDown	1	CC_Move_UpDown	CC_Logical	O
4	413/DC	Dimmer_Ctrl	1	CC_Dimming_Ctrl		O

- **Adjustable table:**

Selection	Parameter value	Datapoint 1 Input 1 bit	Datapoint 2 Output 1 bit	Datapoint 3 Output 1 bit	Datapoint 4 Output 4 bits
Default	0 (none)	-	OO	-	-
Toggle	CH_PB_Toggle	IOO	OO	-	-
Dimming Toggle	CH_PB_Dimming_Toggle	IOO	OO	-	DC
PB_Sunblind	CH_PB_Blind	-	SSUD	MUD	-

The corresponding parameter to this adjustable table is parameter index 1 Adjustable selection

- **Parameter table:**

Index	Identifier	Name	Type	Recommended default value	Bit Offset
1	AJS	Adjustable selection	PART_Adaptive_Selection	none (=0)	0
2	P1	PB action (shutter)	PART_UpDown_Action	Up	15

Parameter overview

0   8   15

Adjustable selection = 0 (none)	
Adjustable selection = 1 (PB toggle)	
Adjustable selection = 2 (PB Dimmer toggle)	
Adjustable selection = 3 (PB Sunblind)	PB action shutter⟶

2.14 CH_Generic_PB_1/2_Info_1 (Channel Code 030Dh)

- **Name:**   CH_Generic_PB_1/2_Info_1

- **ID:**   030Dh

- **Classification:**   sensor

- **Functional Block(s):**

  - 421 – FB Switching Sensor Basic
  - 421 – FB Switching Sensor Basic
  - 2 x 420 – FB Dimming Sensor Basic
  - 801 – FB Sunblind Sensor Basic
  - 403 - FB Scene Sensor
  - 406 – FB PB Timed Sensor

- **Graphical representation:**

Inputs	**CH_Generic_PB_1/2_Info_1**	*Outputs*
		OO + OnOff
		TSS + Timed StartStop
Info OnOff IOO +		SSUD StepStop UpDown
Info Move UpDown IMUD		MUD Move UpDown
		DC Dimming_Ctrl
Parameters		SN Scene_Number
Adjustable select AJS		
PB action dimming P1		
PB action shutter P2		
Switch action P3		
Scene number P4		

- **Description:**

This E-Mode Channel groups functionality from the given Functional Blocks to a generic switch with ability for switching, numbered scenes, timed, switch forced, dimming and shutter control.

REMARK   To avoid multiplication of generic PB, this E-Mode Channel is usable even if no info is displayed to the user.

- **Datapoint list:**

Index	FB / DP_Name	Name	Sub unit	Main CC	Additional CCs	Flags (i/o,x,v,…)
1	402-407-413/IOO	Info OnOff	1	CC_Switch_OnOff_Status		I
1	801/IMUD	Info MUD	1	CC_Move_UpDown_-Status		I
2	400-407-412-413/OO	OnOff	1	CC_Switch_OnOff	CC_Logical	O L
2	406/TSS	Timed StartStop	1	CC_Timed		O

2	801/SSUD	StepStop UpDown	1	CC_StepStop_UpDown		O
3	801/MUD	Move UpDown	1	CC_Move_UpDown	CC_Logical	O
4	412-413/DC	Dimmer_Ctrl	1	CC_Dimming_Ctrl		O
5	403/SN	Scene number	1	CC_Scene_Number		O

- **Adjustable table:**

Selection	Parameter value	Datapoint 1 *Input* *1 bit*	Datapoint 2 *Output* *1 bit*	Datapoint 3 *Output* *1 bit*	Datapoint 4 *Output* *4 bits*	Datapoint 5 *Output* *8 bits*
Default	0 (none)	-	OO	-	-	-
Toggle	CH_PB_Toggle	IOO	OO	-	-	-
Dimming Toggle	CH_PB_Dimming_Toggle	IOO	OO	-	DC	-
Sunblind Toggle	CH_PB_Blind_Toggle	IMUD	SSUD	MUD	-	-
Dimming info	CH_Dimmer_Info	IOO	OO		DC	-
PB_Sunblind	CH_PB_Blind	-	SSUD	MUD	-	-
Push Button	CH_Push_Button	-	OO	-	-	-
Timed	CH_Timed StartStop_Info	IOO	TSS	-	-	-
Scene Number	CH_PB_Scene_Numbered		-	-	-	SN

The corresponding parameter to this adjustable table is parameter index 1 Adjustable selection

- **Parameter table:**

Index	Identifier	Name	Type	Recommended default value	Bit Offset
1	AJS	Adjustable selection	PART_Adaptive_Selection	none (=0)	0
2	P1	PB action (dimming)	PART_UpDown_Action	Up	15
2	P2	PB action (shutter)	PART_UpDown_Action	Up	15
2	P3	Switch action	PART_OnOff_Action	11b : OnOff	14
2	P4	Scene number	PART_Scene_Number	0	10

Parameter overview

0	8	15

Adjustable selection = 0 (none)	
Adjustable selection = 1 (PB toggle)	
Adjustable selection = 2 (PB Dimmer toggle)	
Adjustable selection = 3 (PB Shutter toggle)	
Adjustable selection = 4 (PB Dimmer info)	PB action dimming →
Adjustable selection = 5 (PB sunblind)	PB action shutter →
Adjustable selection = 6 (Push button)	Switch action →
Adjustable selection = 7 (Timed)	
Adjustable selection = 8 (Scene Number)	Scene Number

2.15 CH_Generic_PB_1/2_Info_2 (Channel Code 030Eh)

- **Name:**   CH_Generic_PB_1/2_Info_2

- **ID:**   030Eh

- **Classification:**   sensor

- **Functional Block(s):**

  - 2 x 421 – FB Switching Sensor Basic
  - 2 x 420 – FB Dimming Sensor Basic
  - 801 – FB Sunblind Sensor Basic
  - 403 - FB Scene Sensor
  - 406 – FB PB Timed Sensor
  - 1020 – FB Priority Sensor
  - 802 - FB_Wind_Alarm
  - 803 - FB_Rain_Alarm

- **Graphical representation:**

Inputs		*Outputs*

CH_Generic_PB_1/2_Info_2

Inputs			Outputs
		OO +	OnOff
		TSS +	Timed StartStop
		SSUD +	StepStop UpDown
		WA +	Wind Alarm
Info OnOff	IOO +	RA	Rain Alarm
Info Move UpDown	IMUD	MUD	Move UpDown
		FO	Forced
		DC	Dimming_Ctrl
Parameters		SN	Scene_Number
Adjustable select	AJS		
PB action dimming	P1		
PB action shutter	P2		
Switch action	P3		
Scene number	P4		
Control type	P5		

- **Description:**

This E-Mode Channel groups functionality from the given Functional Blocks to a generic switch with ability for switching, numbered scenes, timed, switch forced, dimming and shutter control..

REMARK   To avoid multiplication of generic PB, this E-Mode Channel is usable even if no info is displayed to the user.

- **Datapoint list:**

Index	FB / DP_Name	Name	Sub unit	Main CC	Additional CCs	Flags (i/o,x,v,…)
1	402-407-413/IOO	Info OnOff	1	CC_Switch_OnOff_-Status		I
1	801/IMUD	Info MUD	1	CC_Move_UpDown_-Status		I
2	400-407-412-413/OO	OnOff	1	CC_Switch_OnOff	CC_Logical	O L
2	406/TSS	Timed StartStop	1	CC_Timed		O
2	801/SSUD	StepStop UpDown	1	CC_StepStop_UpDown		O
2	802/WA	Wind Alarm	1	CC_Wind		O
2	803/RA	Rain Alarm	1	CC_Rain		O
3	801/MUD	Move UpDown	1	CC_Move_UpDown	CC_Logical	O
4	405/FO	Forced	1	CC_Forced		O
5	412-413/DC	Dimmer_Ctrl	1	CC_Dimming_Ctrl		O
6	403/SN	Scene number	1	CC_Scene_Number		O

- **Adjustable table:**

Selection	Parameter value	Datapoint 1 Input 1 bit	Datapoint 2 Output 1 bit	Datapoint 3 Output 1 bit	Datapoint 4 Output 2 bits	Datapoint 5 Output 4 bits	Datapoint 6 Output 8 bits
Default	0 (none)	-	OO	-	-	-	-
Toggle	CH_PB_Toggle	IOO	OO	-	-	-	-
Dimming Toggle	CH_PB_Dimming_-Toggle	IOO	OO	-	-	DC	-
Sunblind Toggle	CH_PB_Blind_-Toggle	IMUD	SSUD	MUD	-	-	-
Dimming info	CH_Dimmer_Info	IOO	OO	-	-	DC	-
PB_Sunblind	CH_PB_Sunblind	-	SSUD	MUD	-	-	-
Push Button	CH_Push_Button	-	OO	-	-	-	-
Timed	CH_Timed StartStop_Info	IOO	TSS	-	-	-	-
Scene Number	CH_PB_Scene_-Numbered		-	-	-	-	SN
Forced	CH_Forced	-	-	-	FO	-	-
Wind alarm	CH_Wind_Sensor	-	WA	-	-	-	-
Rain Alarm	CH_Rain_Sensor	-	RA	-	-	-	-

The corresponding parameter to this adjustable table is parameter index 1 Adjustable selection

- **Parameter table:**

Index	Identifier	Name	Type	Recommended default value	Bit Offset
1	AJS	Adjustable selection	PART_Adaptive_Selection	none (=0)	0
2	P1	PB action (dimming)	PART_UpDown_Action	Up	15
2	P2	PB action (shutter)	PART_UpDown_Action	Up	15
2	P3	Switch action	PART_OnOff_Action	11b : OnOff	14
2	P4	Scene number	PART_Scene_Number	0	10
2	P5	Control type	PART_Boolean	0: Ctrl FALSE	15

Parameter overview:

Adjustable selection		
Adjustable selection = 0 (none)		
Adjustable selection = 1 (PB toggle)		
Adjustable selection = 2 (PB Dimmer toggle)		
Adjustable selection = 3 (PB Shutter toggle)		
Adjustable selection = 4 (PB Dimmer info)	PB action dimming →	
Adjustable selection = 5 (PB sunblind)	PB action shutter →	
Adjustable selection = 6 (Push button)	Switch action →	
Adjustable selection = 7 (Timed)		
Adjustable selection = 8 (Scene Number)	Scene Number	
Adjustable selection = 9 (Forced)	Control Type →	
Adjustable selection = 10 (Wind sensor)		
Adjustable selection = 11 (Rain sensor)		

2.16 CH_Generic_Binary_Contact (Channel Code 030Fh)

- **Name:**   CH_Generic_Binary_Contact

- **ID:**   030Fh

- **Classification:**   sensor

- **Functional Block(s):**
    - 1020 – FB Priority Sensor
    - 802 - FB_Wind_Alarm
    - 803 - FB_Rain_Alarm
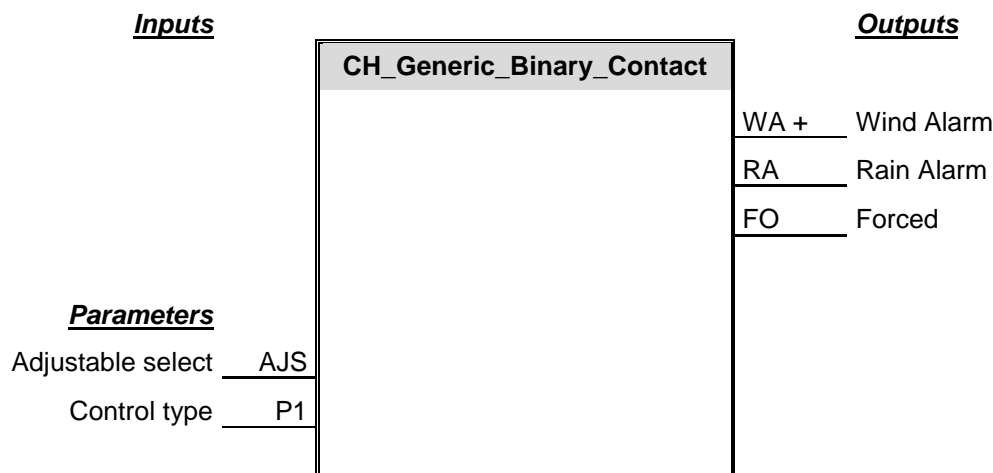
- **Graphical representation:**

- **Description:**

This E-Mode Channel groups functionality from the given Functional Blocks to a generic contact with ability for wind and rain alarm and Forcing

- **Datapoint list:**

Index	FB / DP_Name	Name	Subunit	Main CC	Additional CCs	Flags (i/o,x,v,…)
1	802/WA	Wind Alarm	1	CC_Wind		O L
1	803/RA	Rain Alarm	1	CC_Rain		O
2	405/FO	Forced	1	CC_Forced		O

- **Adjustable table:**

Selection	Parameter value	Datapoint 1 Output 1 bit	Datapoint 3 Output 2 bits
Default	0 (none)	WA	-
Wind Alarm	CH_Wind_Sensor	WA	-
Rain Alarm	CH_Rain_Sensor	RA	-
Forced	CH_Forced	-	FO

The corresponding parameter to this adjustable table is parameter index 1 Adjustable selection

- **Parameter table:**

Index	Identifier	Name	Type	Recommended default value	Bit Offset
1	AJS	Adjustable selection	PART_Adaptive_Selection	none (=0)	0
2	P1	Wind Alarm	PART_Boolean	0: Ctrl FALSE	15
2	P2	Rain Alarm	PART_Boolean	0: Ctrl FALSE	15
2	P3	Control Type	PART_Boolean	0: Ctrl FALSE	15

Parameter overview

2.17 CH_Generic_Switch_5 (Channel Code 0311h)

- **Name:**   CH_Generic_Switch_5

- **ID:**   0311h

- **Classification:**   sensor

- **Functional Block(s):**

    - 403 – FB Scene Sensor (See [01])
    - 420 – FB Dimming Sensor Basic (See [03])
    - 421 – FB Switching Sensor Basic (See [03])
    - 801 – FB Sunblind Sensor Basic (See [04])

- **Graphical representation:**

- **Description:**

This E-Mode Channel groups functionality from the given Functional Blocks to a generic switch with ability for switching, numbered scenes, dimming and shutter control.

- **Datapoint list:**

Index	FB Datapoint ID	Name	Sub-unit	Main CC	Additional CCs	Flags (i/o,x,v,…)
1	OO	OnOff	1	CC_Switch_OnOff	CC_Logical	O L(1)
2	SSUD	StepStop UpDown	1	CC_StepStop UpDown		O
3	MUD	Move UpDown	1	CC_Move UpDown	CC_Logical	O
4	DC	Dimmer_Ctrl	1	CC_Dimming_Ctrl		O
5	SN	Scene number	1	CC_Scene_Number		O

- **Adjustable table:**

Selection	Parameter value	Datapoint 1 Output 1 bit	Datapoint 2 Output 1 bit	Datapoint 3 Output 1 bit	Datapoint 4 Output 4 bits	Datapoint 5 Output 8 bits
Default	0 (none)	OO [1]	-	-	-	-
Switch	CH_Switch	OO	-	-	-	-
Dimming	CH_Switch_Dimmer	OO	-	-	DC	-
Sunblind	CH_Switch_Sunblind	-	SSUD	MUD	-	-
Scene	CH_Switch_Scene_Number	-	-	-	-	SN

The corresponding parameter to this adjustable table is parameter index 1 Adjustable selection. The parameter value corresponds to the E-Mode Channel ID.

[1] On other modes than Ctrl-Mode (L)ocalisation flag and localisation Datapoint is optional. In modes with tool-access (Ctrl-Mode) when ajs = 0 it is mandatory to send the localisation Datapoint according to the functionality of the default adjustment

- **Parameter table:**

Index	Identifier	Name	Recommended default value	Bit offset
1	AJS	Adjustable selection	none (=0)	0
2	P1	Scene number 1	0	10
3	P2	Scene number 2	0	18

Parameter overview

	0	8	16	23

2.18 CH_Generic_PB_1/2_Info_3 (Channel Code 0312h)

- **Name:**   CH_Generic_PB_1/2_Info_3

- **ID:**   0312h

- **Classification:**   sensor

- **Functional Block(s):**

    - 421 – FB Switching Sensor Basic (See [03])
    - 420 – FB Dimming Sensor Basic (See [03])
    - 801 – FB Sunblind Sensor Basic (See [04])
    - 403 – FB Scene Sensor (See [01])
    - 406 – FB Timed Sensors (See [01])
    - 384 – FB User HVAC Room Setting (UHRS) (See [02])
    - ??? – FB Lock Sensor (See [01])
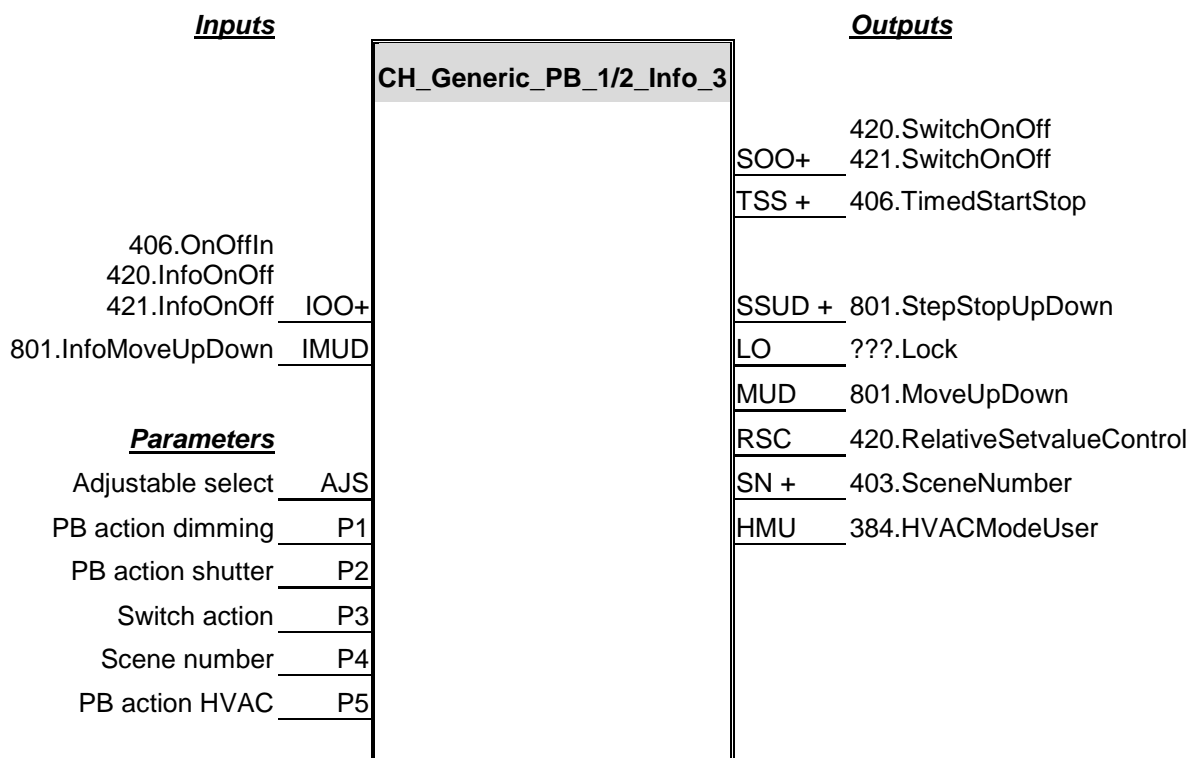
- **Graphical representation:**

Inputs   *Outputs*

CH_Generic_PB_1/2_Info_3

	SOO+	420.SwitchOnOff / 421.SwitchOnOff
	TSS +	406.TimedStartStop
406.OnOffIn / 420.InfoOnOff / 421.InfoOnOff IOO+	SSUD +	801.StepStopUpDown
801.InfoMoveUpDown IMUD	LO	???.Lock
	MUD	801.MoveUpDown
Parameters	RSC	420.RelativeSetvalueControl
Adjustable select AJS	SN +	403.SceneNumber
PB action dimming P1	HMU	384.HVACModeUser
PB action shutter P2		
Switch action P3		
Scene number P4		
PB action HVAC P5		

- **Description:**

This E-Mode Channel groups functionality from the given Functional Blocks to a generic switch with ability for switching, numbered scenes, timed, switch forced, dimming and shutter control.

The Output LO shall allow disabling and enabling heating.

NOTE   To avoid multiplication of generic PBs, this E-Mode Channel is usable even if no info is displayed to the user.

- **Datapoint list:**

Index	FB Datapoint ID	Name	Sub unit	Main CC	Additional CCs	Flags (i/o,x,v,…)
1	IOO	406.OnOffIn	1	CC_Switch_OnOff_-		I

		420.InfoOnOff 421.InfoOnOff		Status		
1	IMUD	801.InfoMoveUppDown	1	CC_Move UpDown_- Status		I
2	SOO	420.SwitchOnOff 421.SwitchOnOff	1	CC_Switch_OnOff	CC_Logical	O L
2	TSS	406.TimedStartStop	1	CC_Timed		O
2	SSUD	801.StepStopUpDown	1	CC_StepStop UpDown		O
2	LO	???.Lock	1	CC_Heating_Enabled	CC_Logical	O
3	MUD	801.MoveUpDown	1	CC_Move UpDown	CC_Logical	O
4	RSC	421.RelativeSetvalueControl	1	CC_Dimming_Ctrl		O
5	SN	403.SceneNumber	1	CC_Scene_Number		O
5	HMU	384.HvacModeUser	1	CC_HVAC_Mode		O

- **Adjustable table**

Selection	Parameter value	Datapoint 1 Input 1 bit	Datapoint 2 Output 1 bit	Datapoint 3 Output 1 bit	Datapoint 4 Output 4 bit	Datapoint 5 Output 8 bit
Default	0 (none)	-	SOO	-	-	-
Toggle	CH_PB_Toggle	IOO	SOO	-	-	-
Dimming Toggle	CH_PB_Dimming_Toggle	IOO	SOO	-	RSC	-
Shutter Toggle	CH_PB_Sunblind_Toggle	IMUD	SSUD	MUD	-	-
Dimming info	CH_Dimmer_Info	IOO	SOO		RSC	-
PB_Sunblind	CH_PB_Sunblind	-	SSUD	MUD	-	-
Push Button	CH_Push_Button	-	SOO	-	-	-
Timed	CH_Timed StartStop_Info	IOO	TSS	-	-	-
Scene Number	CH_PB_Scene_Numbered		-	-	-	SN
HVAC Mode	CH_PB_HVAC_Mode	-	-	-	-	HMU
HVAC Control	CH_PB_HVAC_HeatingEnabled	-	LO	-	-	-

The corresponding parameter to this adjustable table is parameter index 1 Adjustable selection

- **Parameter table:**

Index	Identifier	Name	Recommended default value	Bit-Offset
1	AJS	Adjustable selection	none (=0)	0
2	P1	421.OnOffAction	Dim up	15
2	P2	801.UpDownAction	Up	15
2	P3	400.SwitchAction	11b: OnOff	14
2	P4	403.SceneNumber	0	10
2	P5	PB action hvac	0 =Comfort/Economy	14

Parameter overview

0	8	15
Adjustable selection = 0 (none)		
Adjustable selection = 1 (PB toggle)		
Adjustable selection = 2 (PB Dimmer toggle)		
Adjustable selection = 3 (PB Shutter toggle)		
Adjustable selection = 4 (PB Dimmer info)	PB action dimming→	
Adjustable selection = 5 (PB Shutter)	PB action shutter→	
Adjustable selection = 6 (Push button)	Switch action →	
Adjustable selection = 7 (Timed)		
Adjustable selection = 8 (Scene Number)	Scene Number	
Adjustable selection = 9 (Hvac Mode User)	PB action hvac →	
Adjustable selection = 10 (HVAC Heating Enabled)		

2.19 CH_Generic_PB_1/2_Info_4 (Channel Code 0313h)

- **Name:**   CH_Generic_PB_1/2_Info_4

- **ID:**   0313h

- **Classification:**   sensor

- **Functional Block(s):**
    - 421 – FB Switching Sensor Basic (See [03])
    - 420 – FB Dimming Sensor Basic (See [03])
    - 801 – FB Sunblind Sensor Basic (See [04])
    - 403 – FB Scene Sensor (See [01])
    - 406 – FB Timed Sensors (See [01])
    - 1020 – FB Priority Sensor (See [01])
    - 802 – FB Wind Alarm
    - 803 – FB Rain Alarm
    - 384 – FB User HVAC Room Setting (UHRS) (See [02])
    - ??? – FB Lock Sensor (See [01])
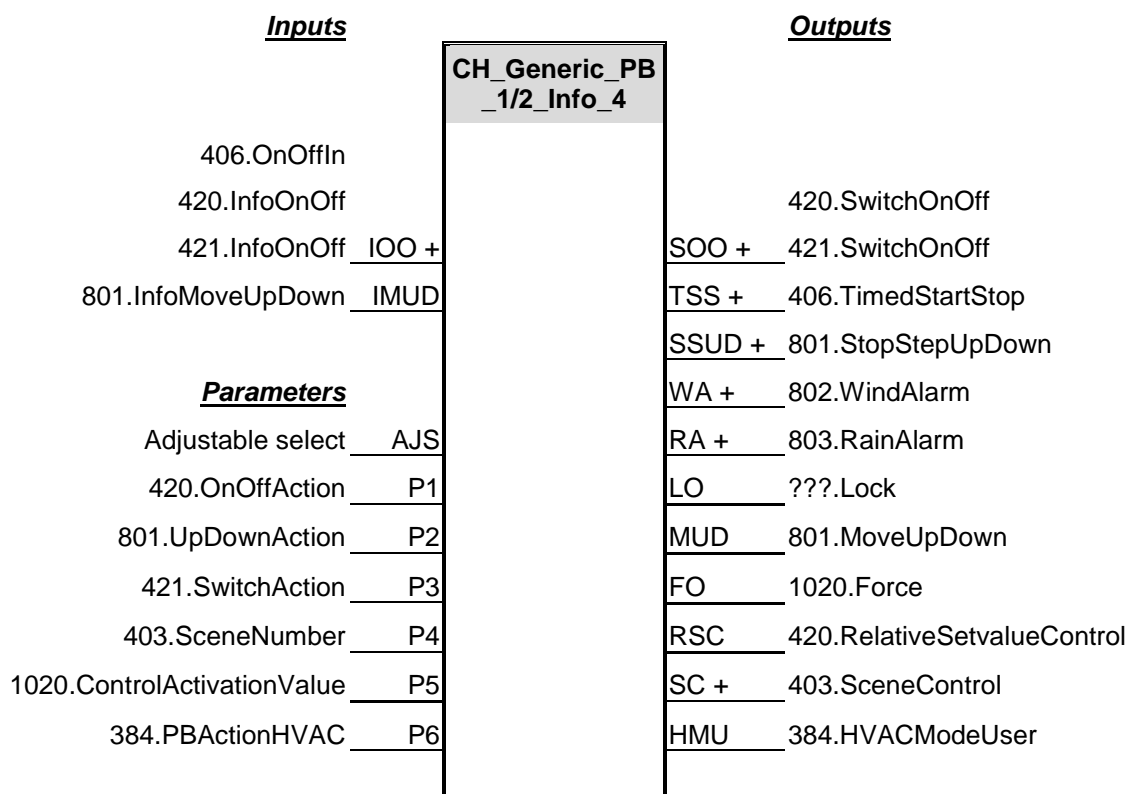
- **Graphical representation:**

Inputs		CH_Generic_PB_1/2_Info_4		*Outputs*
406.OnOffIn				
420.InfoOnOff				420.SwitchOnOff
421.InfoOnOff	IOO +		SOO +	421.SwitchOnOff
801.InfoMoveUpDown	IMUD		TSS +	406.TimedStartStop
			SSUD +	801.StopStepUpDown
Parameters			WA +	802.WindAlarm
Adjustable select	AJS		RA +	803.RainAlarm
420.OnOffAction	P1		LO	???.Lock
801.UpDownAction	P2		MUD	801.MoveUpDown
421.SwitchAction	P3		FO	1020.Force
403.SceneNumber	P4		RSC	420.RelativeSetvalueControl
1020.ControlActivationValue	P5		SC +	403.SceneControl
384.PBActionHVAC	P6		HMU	384.HVACModeUser

- **Description:**

This E-Mode Channel groups functionality from the given Functional Blocks to a generic switch with ability for switching, numbered scenes, timed, switch forced, dimming and shutter control.

The Output LO shall allows to disable and enable heating (HVAC Heating Enabled).

NOTE   To avoid multiplication of generic PB, this E-Mode Channel is usable even if no info is displayed to the user.

- **Datapoint list:**

Index	FB Datapoint ID	Name	Sub unit	Main CC	Additional CCs	Flags (i/o,x,v,…)
1	IOO	406.OnOffIn 420.InfoOnOff 421.InfoOnOff	1	CC_Switch_OnOff_-Status		I
1	IMUD	801.InfoMoveUpDown	1	CC_Move UpDown_-Status		I
2	SOO	421.SwitchOnOff	1	CC_Switch_OnOff	CC_Logical	O L
2	TSS	406.TimedStartStop	1	CC_Timed		O
2	SSUD	801.StopStepUpDown	1	CC_StepStop UpDown		O
2	WA	802.WindAlarm	1	CC_Wind		O
2	RA	803.RainAlarm	1	CC_Rain		O
2	LO	???.Lock	1	CC_Heating_Enabled	CC_Logical	O
3	MUD	801.MoveUpDown	1	CC_Move UpDown	CC_Logical	O
4	FO	1020.Force	1	CC_Forced		O
5	RSC	420.RelativeSetvalueConrol	1	CC_Dimming_Ctrl		O
6	SN	403.SceneNumber	1	CC_Scene_Number		O
6	HMU	384.HVACModeUser Mode	1	CC_HVAC_Mode		O

- **Adjustable table**

Selection	Parameter value	DP 1 Input 1bit	DP 2 Output 1 bit	DP 3 Output 1 bit	DP 4 Output 2 bit	DP 5 Output 4 bit	DP 6 Output 8 bit
Default	0 (none)	-	SOO	-	-	-	-
Toggle	CH_PB_Toggle	IOO	SOO	-	-	-	-
Dimming Toggle	CH_PB_Dimming_Toggle	IOO	SOO	-	-	RSC	-
Sunblind Toggle	CH_PB_Sunblind_Toggle	IMUD	SSUD	MUD	-	-	-
Dimming info	CH_Dimmer_Info	IOO	SOO	-	-	RSC	-
PB_Sunblind	CH_PB_Sunblind	-	SSUD	MUD	-	-	-
Push Button	CH_Push_Button	-	SOO	-	-	-	-
Timed	CH_Timed StartStop_Info	IOO	TSS	-	-	-	-
Scene Number	CH_PB_Scene_Numbered		-	-	-	-	SC
Forced	CH_Forced	-	-	-	FO	-	-
Wind alarm	CH_Wind_Sensor	-	WA	-	-	-	-
Rain Alarm	CH_Rain_Sensor	-	RA	-	-	-	-
HVAC Mode	CH_PB_HVAC_Mode_User	-	-	-	-	-	HMU
HVAC Control	CH_PB_HVAC_Heating_Enabled	-	LO	-	-	-	-

The corresponding parameter to this adjustable table is parameter index 1 Adjustable selection.

- **Parameter table:**

Index	Identifier	Name	Recommended default value	Bit-Offset
1	AJS	Adjustable selection	0: none	0
2	P1	420.OnOffAction	Dim up	15
2	P2	801.UpDownAction	Up	15
2	P3	421.OnOffAction	11b: OnOff	14
2	P4	403.SceneNumber	0	10
2	P5	1020.ControlActivationValue	0: Ctrl OFF	15
2	P6	384.PBActionHVAC	0: Comfort/Economy	14

Parameter overview

0	8	15
Adjustable selection = 0 (none)		
Adjustable selection = 1 (PB toggle)		
Adjustable selection = 2 (PB Dimmer toggle)		
Adjustable selection = 3 (PB Shutter toggle)		
Adjustable selection = 4 (PB Dimmer info)		← 420.OnOffAction
Adjustable selection = 5 (PB Shutter)		← 801.UpDownAction
Adjustable selection = 6 (Push button)		← 421.OnOffAction
Adjustable selection = 7 (Timed)		
Adjustable selection = 8 (Scene Number)	403.SceneNumber	
Adjustable selection = 9 (Forced)		← 1020.ControlActivationValue
Adjustable selection = 10 (Wind Sensor)		
Adjustable selection = 11 (Rain Sensor)		
Adjustable selection = 12 (Hvac Mode User)		← 384.PBActionHVAC
Adjustable selection = 13 (HVAC Heating Enabled)		

2.20 CH_Generic_PB_1/2_2 (Channel Code 0314h)

- **Name:**   CH_Generic_PB_1/2_2

- **ID:**   0314h

- **Classification:**   Sensor

- **Functional Block(s):**
    - 421 – FB Switching Sensor Basic (See [03])
    - 801 – FB Sunblind Sensor Basic (See [04])
    - 406 – FB Timed Sensors (See [01])
    - 1020 – FB Priority Sensor (See [01])
    - 403 – FB Scene Sensor (See [01])
    - 421 – FB Switching Sensor Basic (See [03])
    - 384 – FB User HVAC Room Setting (UHRS) (See [02])
    - 420 – FB Dimming Sensor Basic (See [03])
    - ??? – FB Lock Sensor

- **Graphical representation:**

Inputs	**CH_Generic_PB_1/2_2**	*Outputs*	
		SOO+	421.SwitchOnOff
		MUD+	801.MoveUpDown
		SSUD	801.StepStopUpDown
		TSS	406.TimedStartStop
		FO+	1020.Force
		SC+	403.SceneControl
		HMU+	384.HVACModeUser
		LO	???.Lock
		ASC+	420.AbsoluteSetvalueControl

Parameters	
Adjustable Select	AJS
1020.ControlActivationValue	P1
403.SceneNumber	P2
420.Absolute Setvalue	P3
Action HVAC	P4
421.SwitchAction	P5
801.UpDownAction	P6
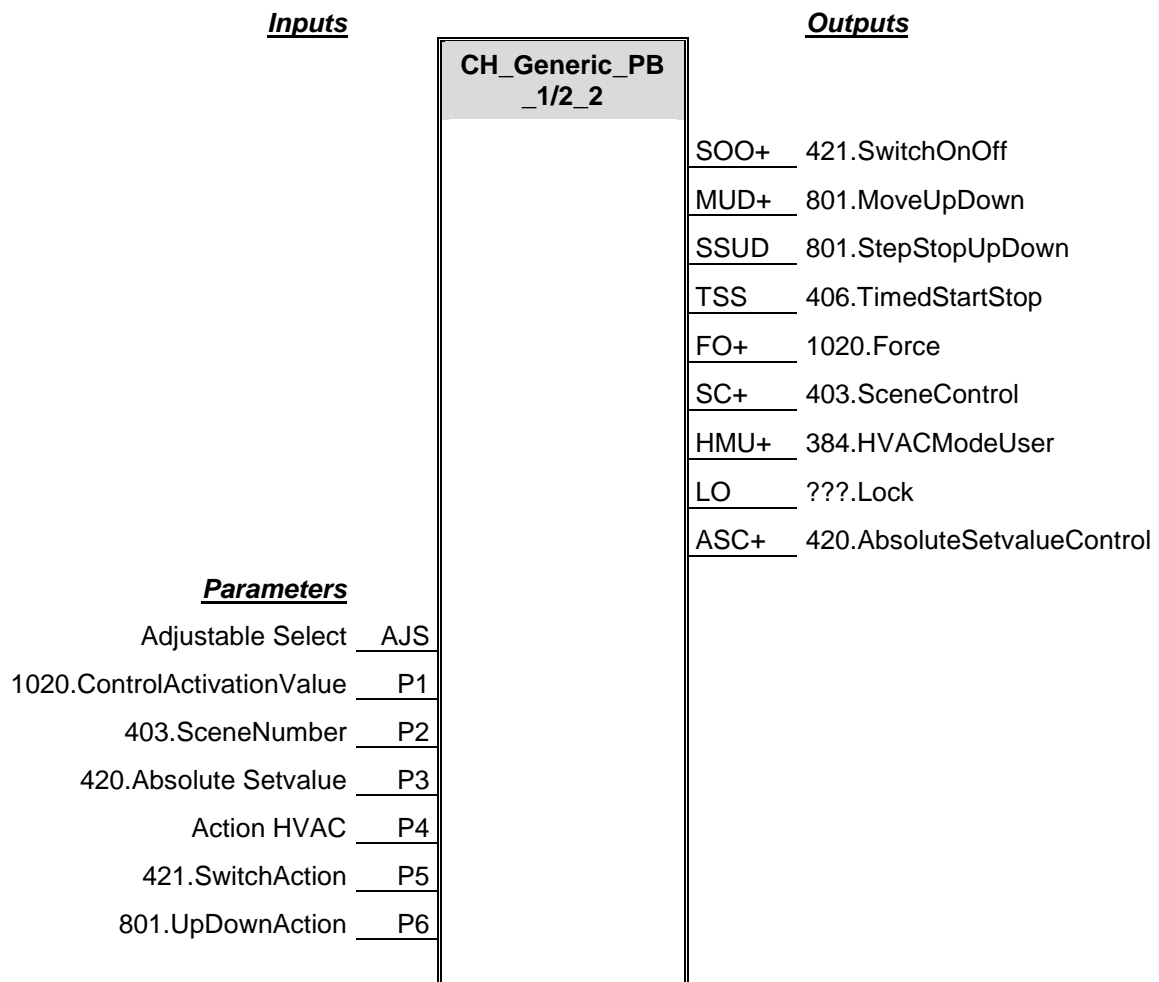
- **Description:**

Please refer to the functional specifications of the composing FBs.

- **Datapoint list:**

Index	FB Datapoint ID	Name	Sub-unit	Main CC	Additional CCs	Flags (i/o,x,v,…)
1	SOO	421.SwitchOnOff	1	CC_Switch_OnOff	CC_Logical	OL
1	MUD	801.MoveUpDown	1	CC_Move_UpDown	CC_Logical	O
1	TSS	406.TimedStartStop	1	CC_Timed		O
1	LO	???.Lock	1	CC_Heating_Enabled	CC_Logical	O
2	SSUD	801.StepStopUpDown	1	CC_StepStop_UpDown		O
3	FO	1020.Forced	1	CC_Forced		O
4	SC	403.SceneControl	1	CC_Scene_Number		O
4	HMU	384.HvacModeUser	1	CC_HVAC_Mode		O
4	ASC	420Absolute Setvalue Control	1	CC_Dimming_Value		O

- **Adjustable table:**

Selection	Parameter value	Datapoint 1 Output 1 bit	Datapoint 2 Output 1 bit	Datapoint 3 Output 2 bit	Datapoint 4 Output 8 bit
Default	0 (none)	SOO	-	-	-
Switch	CH_PushButton	SOO	-	-	-
Sunblind	CH_PB_Shutter	MUD	SSUD	-	-
Timed	CH_PB_Timed	TSS			-
Forced	CH_Switch_Forced	-	-	FO	-
Scene Number	CH_PB_Scene_Numbered	-	-	-	SC
HVAC Mode	CH_PB_HVAC_Mode	-	-	-	HMU
HVAC Control	CH_PB_HVAC_HeatingEnabled	LO	-	-	-
Dimming value	CH_PB_Dimmer_Value	-	-	-	ASC

The corresponding parameter to this adjustable table is parameter index 1 Adjustable selection.

- **Parameter table:**

| Index	Identifier	Name	Recommended default value	Bit-Offset
1	AJS	Adjustable selection	0: none	0
2	P1	1020.ControlActivationValue	0: Ctrl False	15
2	P2	403.Scene number [a]	0	10
2	P3	420.Absolute Setvalue Control	100 % (format DPT_Scaling)	8
2	P4	PB action hvac	0 =Comfort/Economy	14
2	P5	421.Switch Action	11b: OnOff	14
2	P6	801.Up Down Action	0b11: DownUp	14
[a]		This parameter is only defined in this E-Mode Channel definition. It is not defined in the FB specification in Chapter 7/50/1 "Shutters and Blinds Sensors".		

Parameter overview

0	8	15

Adjustable selection = 0 (none)	
Adjustable selection = 1 (PushButton)	Switch action
Adjustable selection = 2 (PB Shutter)	Switch action shutter
Adjustable selection = 3 (PB Timed)	
Adjustable selection = 4 (Switch Forced)	Control type
Adjustable selection = 5 (PB Scene Number)	Scene Number
Adjustable selection = 6 (Hvac Mode User)	PB action hvac
Adjustable selection = 7 (Hvac Heating Enabled)	
Adjustable selection = 8 (Dimmer Info)	Abs. Setvalue Control

2.21 CH_Generic_Switch_Lighting_Complex_Info (Channel Code 0315h)

- **Name:**   CH_Generic_Switch_Lighting_Complex_Info

- **ID:**   0315h

- **Classification:**   sensor

- **Functional Block(s):**

  - 421 – FB Switching Sensor Basic (See [03])
  - 403 – FB Scene Sensor (See [01])
  - 1020 – FB Priority Sensor (See [01])
  - 406 – FB Timed Sensor (See [01])
  - 420 - FB Dimming Sensor Basic (See [03])

- **Graphical representation:**
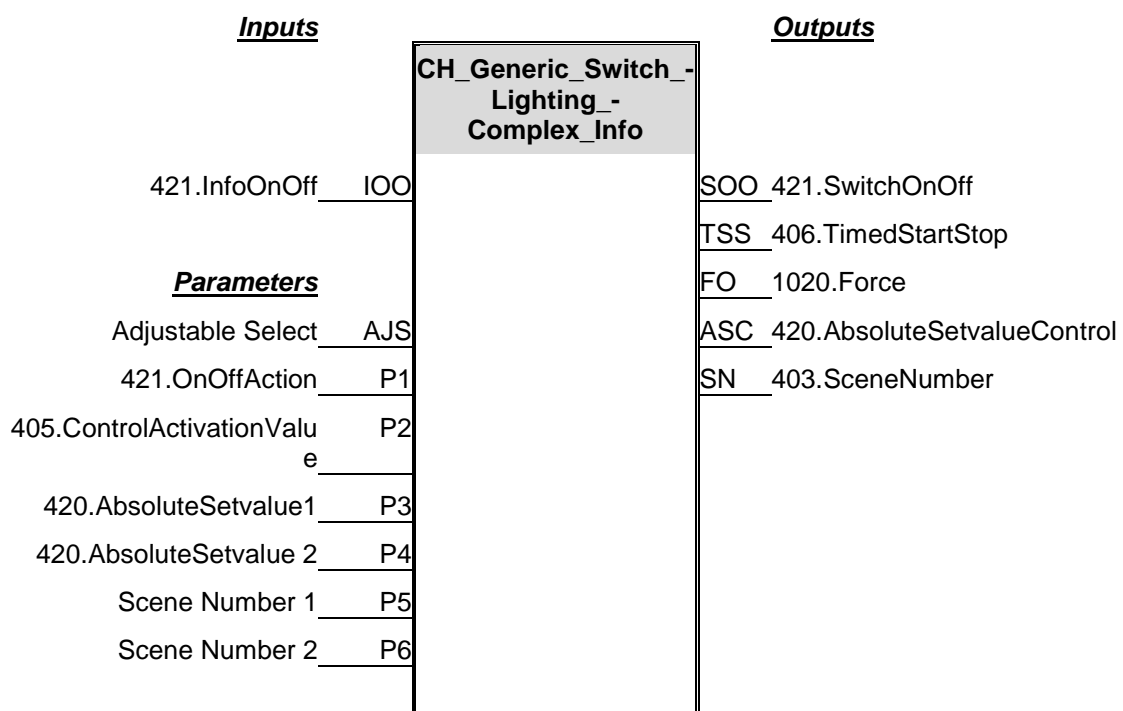
- **Description:**

Please refer to the functional specification of the FBs that compose this E–Mode E-Mode Channel.

To avoid multiplication of generic PB, this E-Mode Channel is usable even if no info is displayed to the user.

- **Datapoint list:**

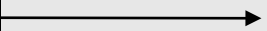| Index	FB Datapoint ID	Name	Sub unit	Main CC	Additional CCs	Flags (i/o,x,v,…)
1	421.IOO	InfoOnOff	1	CC_Switch_OnOff_Status		I
2	421.SOO	SwitchOnOff	1	CC_Switch_OnOff	CC_Logical	O L
3	406.TSS	TimedStartStop	1	CC_Timed StartStop		O
4	1020.FO	Force	1	CC_Forced		O
5	421.ASC	AbsoluteSetvalueControl	1	CC_Dimming_Value		O
6	SN	Scene number	1	CC_Scene_Numbered		O

- **Adjustable table:**

Selection	Parameter value	Datapoint 1	Datapoint 2	Datapoint 3	Datapoint 4	Datapoint 5	Datapoint 6
Default	0 (none)	-	SOO	-	-	-	-
Switch	CH_Push_Button_Info	IOO	SOO	-	-	-	-
Toggle	CH_PB_Toggle	IOO	SOO	-	-	-	-
Timed	CH_Timed StartStop_Info	IOO		TSS	-	-	-
Forced	CH_Forced_Info	IOO	-	-	FO	-	-
Dimming Value	CH_PB_Dimming_Value_Info	IOO	-	-	-	ASC	-
Switch Dimming Value	CH_Switch_Dimming_Value_Info	IOO	-	-	-	ASC	-
Scene Numbered	CH_PB_Scene_Numbered	-	-	-	-	-	SN
Switch Scene Numbered	CH_Switch_Scene_Numbered	-	-	-	-	-	SN

- **Parameter table:**

Index	Identifier	Name	Recommended default value	Bit Offset
1	AJS	Adjustable selection	none (=0)	0
2	P1	OnOffAction	11b : OnOff	14
2	P2	Control Activation Value	0 : ctrl False	15
2	P3	Absolute Setvalue 1	FFh : 100 %	8
3	P4	Absolute Setvalue 2	00h : 0 %	16
2	P5	Scene Number 1	0 : Scene 1	10
3	P6	Scene Number 2	0 : Scene 1	18

Parameter overview

0	8	15	16	23
AJS = 0 (none)				
AJS = 1 (Switch)	**OnOffAction (P1)** ⟶			
AJS = 2 (Toggle)				
AJS = 3 (Timed)				
AJS = 4 (Forced)	ControlActivationValue (P2) ⟶			
AJS = 5 (Dimming Value)	**AbsoluteSetvalue 1 (P3)**			
AJS = 6 (Switch Dimming Value)	**AbsoluteSetvalue 1 (P3)**		**AbsoluteSetvalue 2 (P4)**	
AJS = 7 (Scene Numbered)		**Scene Number 1 (P5)**		
AJS = 8 (Switch Scene Numbered)		**Scene Number 1 (P5)**		**Scene Number 2 (P6)**

2.22 CH_Generic_PB_½_Info_5 (Channel Code 0316h)

- **Name:**   CH_Generic_PB_½_Info_5

- **ID:**   0316h

- **Classification:**   sensor

- **Functional Block(s):**

    - 421 - FB Switching Sensor Basic (See [03])
    - 420 - FB Dimming Sensor Basic (See [03])
    - 801 - Sunblind Sensor Basic (See [04])
    - 403 - FB Scene Sensor (See [01])
    - 406 - FB Timed Sensor (See [01])
    - 1020 - FB Priority Sensor (See [01])
    - 802 - FB Wind Sensor (See [05])
    - 803 - FB Rain Sensor (See [05])
    - 384 - User HVAC Room Settings (UHRS) (See [02])
    - 421 - FB Switching Sensor Basic (See [03])
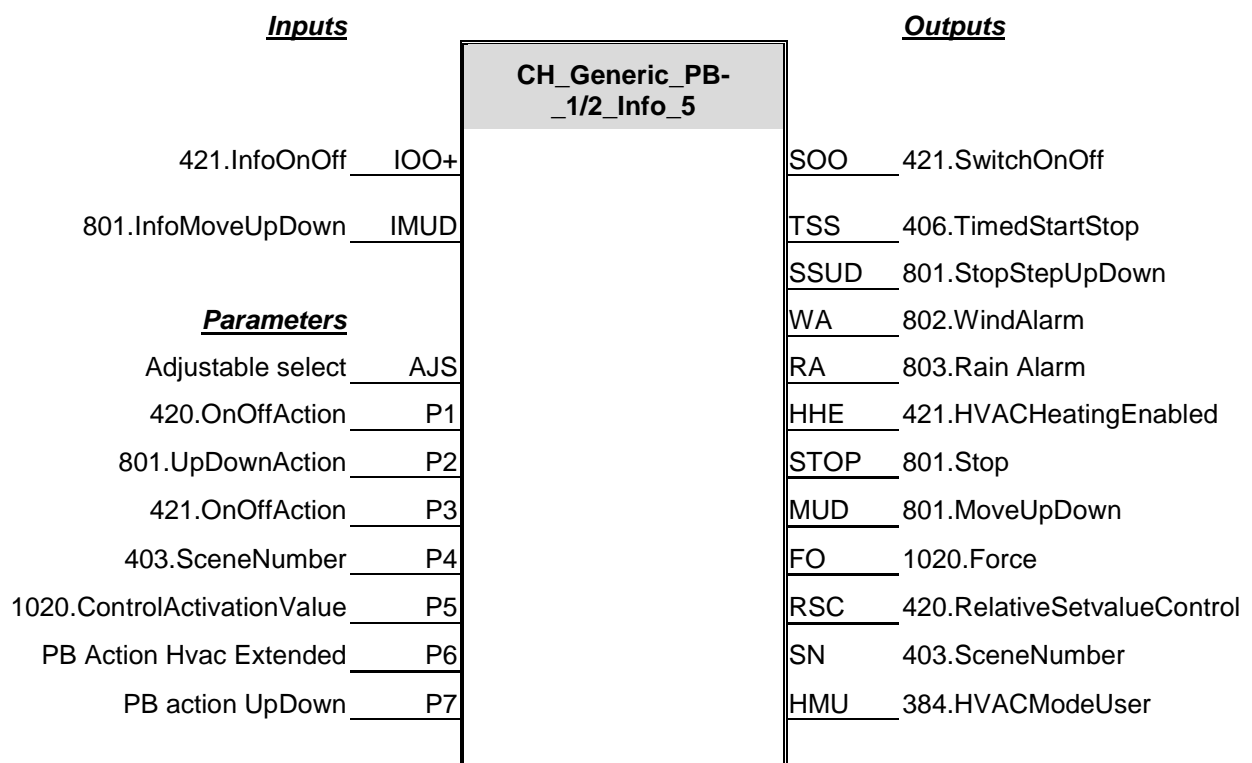
- **Graphical representation:**

Inputs		CH_Generic_PB-_1/2_Info_5		*Outputs*
421.InfoOnOff	IOO+		SOO	421.SwitchOnOff
801.InfoMoveUpDown	IMUD		TSS	406.TimedStartStop
			SSUD	801.StopStepUpDown
			WA	802.WindAlarm
Parameters			RA	803.Rain Alarm
Adjustable select	AJS		HHE	421.HVACHeatingEnabled
420.OnOffAction	P1		STOP	801.Stop
801.UpDownAction	P2		MUD	801.MoveUpDown
421.OnOffAction	P3		FO	1020.Force
403.SceneNumber	P4		RSC	420.RelativeSetvalueControl
1020.ControlActivationValue	P5		SN	403.SceneNumber
PB Action Hvac Extended	P6		HMU	384.HVACModeUser
PB action UpDown	P7			

Description:

This E-Mode Channel groups functionality from the given Functional Blocks to a generic switch with ability for switching, numbered scenes, timed, switch forced, dimming and shutter control.

NOTE   To avoid multiplication of generic PB, this E-Mode Channel is usable even if no info is displayed to the user.

- **Datapoint list:**

Index	FB Datapoint ID	Name	Sub-unit	Main CC	Additional CCs	Flags (i/o,x,v,…)
1	421.IOO	Info OnOff	1	CC_Switch_OnOff_Status		I
1	801.IMUD	Info MUD	1	CC_Move UpDown_Status		I
2	421.SOO	OnOff	1	CC_Switch_OnOff	CC_Logical	O L
2	406.TSS	Timed StartStop	1	CC_Timed		O
2	801.SSUD	StepStop UpDown	1	CC_StepStop UpDown		O
2	802.WA	Wind Alarm	1	CC_Wind		O
2	803.RA	Rain Alarm	1	CC_Rain		O
2	421.HHE	Hvac Heating Enabled	1	CC_Heating_Enabled	CC_Logical	O
2	801.STOP	Stop	1	CC_Stop	CC_StepStop-_UpDown	O
3	801.MUD	Move UpDown	1	CC_Move UpDown	CC_Logical	O
4	1020.FO	Forced	1	CC_Forced		O
5	420.RSC	Relative Setvalue Control	1	CC_Dimming_Ctrl		O
6	403.SN	Scene Number	1	CC_Scene_Number		O
6	384.HMU	Hvac Mode User	1	CC_Hvac_Mode		O

- **Adjustable table:**

Selection	Parameter value	Datapoint 1	Datapoint 2	Datapoint 3	Datapoint 4	Datapoint 5	Datapoint 6
Default	0 (none)	-	SOO	-	-	-	-
Toggle	CH_PB_Toggle	IOO	SOO	-	-	-	-
Dimming Toggle	CH_PB_Dimming_Toggle	IOO	SOO	-	-	RSC	-
Sunblind Toggle	CH_PB_Sunblind_Toggle	IMUD	SSUD	MUD	-	-	-
Dimming Info	CH_Dimmer_Info	IOO	SOO	-	-	RSC	-
PB_Sunblind	CH_PB_Sunblind	-	SSUD	MUD	-	-	-
Push Button	CH_Push_Button	IOO	SOO	-	-	-	-
Timed	CH_Timed StartStop_Info	IOO	TSS	-	-	-	-
Scene Number	CH_PB_Scene_Numbered		-	-	-	-	SN
Forced	CH_Forced	IOO	-	-	FO	-	-
Wind Sensor	CH_Wind_Sensor	-	WA	-	-	-	-
Rain Alarm	CH_Rain_Sensor	-	RA	-	-	-	-
HVAC Mode	CH_PB_HVAC_Mode_1	-	-	-	-	-	HMU
HVAC Control	CH_PB_HVAC_Heating_Enabled	-	HHE	-	-	-	-
Sunblind	CH_PB_Shutter_1		STOP	MUD			

The corresponding parameter to this adjustable table is parameter index 1 Adjustable selection

- **Parameter table**

Index	Identifier	Name	Recommended default value	Bit-Offset
1	AJS	Adjustable selection	None (=0)	0
2	P1	420.OnOffAction	Dim up	15
2	P2	801.UpDownAction	Up	15
2	P3	421.OnOffAction	0b11 : OnOff	14
2	P4	403.SceneNumber	0	10
2	P5	1020.ControlActivationValue	0: Ctrl OFF	15
2	P6	PB action hvac	0 =Comfort/Economy	13
2	P7	PB action UpDown	0b11 : DownUp	14

Parameter overview