



Application software

1-fold and 2-fold switch actuator 4A 230V AC, embedded Electrical / Mechanical characteristics: see product user manual

	Product reference	Product designation	Application software ref.	TP device Radio device (
Berker 75341101 11; Feb Add 120 V- 15:	7534 11 01	1-fold switch actuator 4A 230V AC, embedded	S75341101 Version 1.x	
Berker 75342101 22 yala And 200 V- 80	7534 21 01	2-fold switch actuator 4A 230V AC, embedded	S75342101 Version 1.x	-



CONTENTS

1	GENERAL		4
1.1	ABOUT THIS GL	JIDE	4
1.2		OGRAM	
		compatibility	
	1.2.2 Applie	cation descriptions	4
2	GENERAL DE	ESCRIPTION	5
2.1	INSTALLATION	OF THE DEVICE	5
	2.1.1 Over	view presentation	5
		ection	
		ical addressing	
2.2		DULES OF THE APPLICATION	
		ary functions	
		nced functions	
3	PARAMETER	R	10
3.1		THE GENERAL PARAMETERS	
		ation of the Status indication	
	3.1.2 Activa	ation of the logic blocks	11
		ation of the Device diagnosis objects	
		ore ETS-Parameterss during bus power cut or download	
		displaydisplay	
3.2		ITION	
3.3			
	3.3.1 Confi	guration of the logic fnction	18
		block authorization	
		result	
3.4		OSIS	
3.5		ECTIONition	
		DFF timings function	
		r	
		е	
		et	
		-up	
		ty	
	3.5.8 Hours	s counter	51
4	COMMUNICA	ATION OBJECTS	55
4.1	COMMUNICATION	ON OBJECTS <i>GENERAL</i>	55
		block	
		viour of the device	
		ce diagnosis	
4.2		MUNICATION OBJECTS	
		DFFDFF timings function	
		s indication	
		r	
		e	
	4.2.6 Prese	et	62
		-up	
		ty	
	4.2.9 Hours	s counter	65
5	APPENDIX		67
5.1	SPECIFICATION	IS	67
5.2	TABLE OF LOGI	CAL OPERATIONS	68



Contents



1 General

1.1 About this guide

The purpose of this manual is to describe the operation and configuration of the KNX-devices using the ETS program. It consists of four parts:

- General information
- Parameter description
- Overview of KNX objects
- Technical characteristics

1.2 About the program

1.2.1 ETS compatibility

The application programs are compatible with ETS4 and ETS3.

They can be downloaded from our website under the order number.

ETS version	File extension of compatible files
ETS4	*.knxprod or *.vd5
ETS3 (V3.0f)	*.vd5

1.2.2 Application descriptions

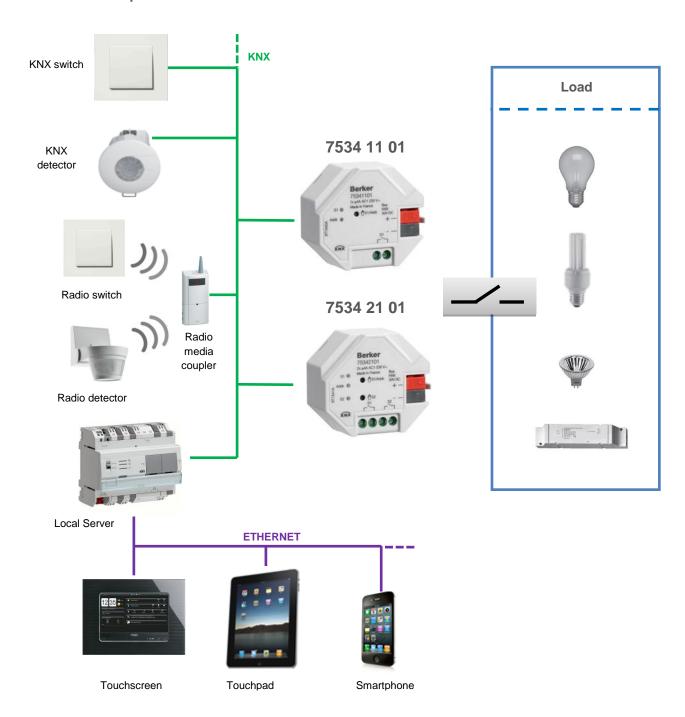
Application	Order number
S75341101	7534 11 01
S75342101	7534 21 01



2 General Description

2.1 Installation of the device

2.1.1 Overview presentation

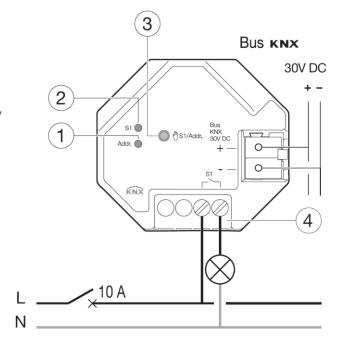




2.1.2 Connection

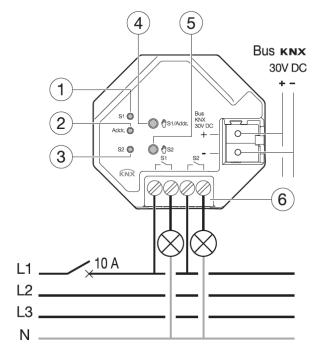
7534 11 01

- Physical addressing indicator
- Output state indicator
- Physical addressing pushbutton / "Manu" mode / reset
- Connection terminals



7534 21 01

- 1 Output state indicator S1
- ② Physical addressing indicator
- ③ Output state indicator S2
- Pushbutton for physical addressing and for manual control of the output S1
- Pushbutton 2 for manual control g of the output S2
- 6 Connection terminals





2.1.3 Physical addressing

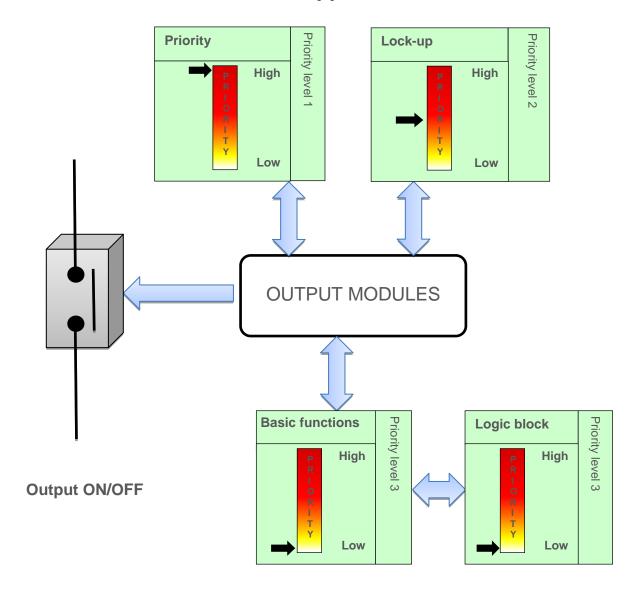
In order to perform the physical addressing or to check whether or not the bus is connected, press the pushbutton (3) (4) on the front of the device.

Light on = bus connected and ready for physical addressing.

Programming mode is activated, until the physical address is transferred from ETS. Pressing the button again, exits programming mode.

Physical addressing can be carried out in automatic or manual mode.

2.2 Function modules of the application





2.2.1 Primary functions

The applications allow individual configuration of the device outputs.

The most important functions are:

ON/OFF

An output can be switched on or off using the ON/OFF function. The command can come from switches, buttons or other control inputs.

■ Timer

The timer function is used to switch an output on or off for a programmable period

According to the selected operating mode of the timer, the output can be turned ON or OFF for a determined period of time. The timer may be interrupted before expiry of the delay time. A programmable Cut-OFF pre-warning announces the end of the delay time by a 1-second inversion of the output status. The timer duration can be modified via the bus.

■ Time-limited OFF

The Time-limited OFF function is a switching function that automatically switches off after a configurable delay time.

Application: Lighting of store rooms, cellars, sheds etc.

■ Priority

The priority function is used to force the output into a defined state. The Priority function is controlled with a 2-bit command.

Priority: **Priority** > Lock-up > basic functions.

Only a Priority OFF command authorizes the output for control.

Application: Keeping lighting on for security reasons.

■ Lock-up

The lock-up function is used to lock the output in a predefined state.

Priority: Priority > **Lock-up** > basic functions..

The Lock-up prevents actuation until an unlock command has been received.

The Lock-up duration can be set.

■ Scene

The Scene function is used to switch groups of outputs into a configurable predefined state.

A scene is activated by receipt of a 1-byte command.

Each output can be included in 64 different scenes.

■ Preset

The Preset function is used to switch an output into various predefined states.

The Preset function is activated via an object in 1-bit format.

Each output can be controlled via two Preset objects

■ Delay

The delay functions are used to activate the outputs with a switching or tripping delay, or with a switching and tripping delay.



■ Timer/toggle switch changeover

The Timer/toggle switch changeover function is used to switch between a timer and a toggle switch function applied to the communication object ON/OFF.

■ Hours counter

The Hours counter function is used to count the overall operating time of an output in the ON or OFF state

The counter setpoint can be programmed and altered via an object.

2.2.2 Advanced functions

The applications configure the general functions of the devices.

The following advanced functions apply to the entire device:

■ Status indication

The behaviour of the Status indication for each ON/OFF channel can be configured for the entire device. The Status indication ON/OFF sends the ON/OFF status of the individual output contact on the KNX-bus.

■ Logic Block

The Logic function is used to control an output depending on the result of a logic operation. This command has the lowest priority.

The result of the function can be output on the KNX bus and can directly control one or more outputs.

There are two logic blocks available per device with up to 4 inputs.

■ Devise diagnosis

The Device diagnosis function allows notifications about the operating state of the device to be sent via the KNX bus.

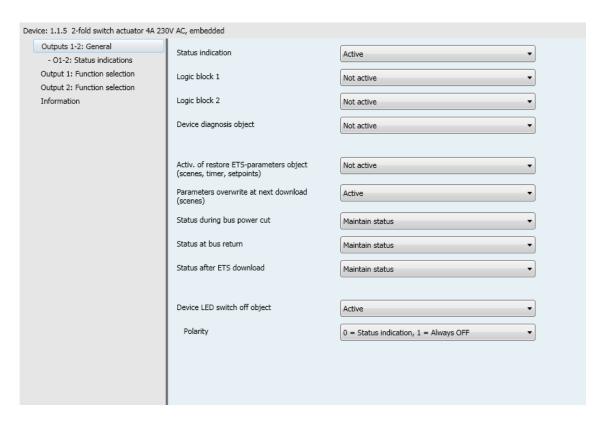
This information is sent periodically and/or on status change.



3 Parameter

3.1 Definition of the general parameters

This configuration window is used for general configuration of the device.



3.1.1 Activation of the Status indication

Parameter	Description	Value
Status indication	The Status indications parameter register is hidden.	Not active
	The Status indications parameter register is displayed.	Active*

For configuration see section: Status indication

^{*} Default value



3.1.2 Activation of the logic blocks

Parameter	Description	Value
Logic block 1	Logic block 1 communication objects and parameter register are hidden.	Not active*
	Logic block 1 communication objects and parameter register are displayed.	Active

For configuration see section: Logic block

Note: The parameters and objects are identical for block 2, only the terms will be adjusted.

For logic block 1

Communication objects: 43 - Logic block 1 - Input 1 (1 Bit - 1 Bit - 1.002 DPT_Bool)

47 - Logic block 1 - Logic result (1 Bit - 1.002 DPT_Bool)

For logic block 2

Communication objects 49 - Logic block 2 - Input 1 (1 Bit - 1 Bit - 1.002 DPT_Bool)

53 - Logic block 2 - Logic result (1 Bit - 1.002 DPT_Bool)

3.1.3 Activation of the Device diagnosis objects

Parameter	Description	Value
Device diagnosis object	The "Device diagnosis" parameter register and the associated communication object is hidden.	Not active*
	The "Device diagnosis" parameter register and the associated communication object are displayed.	Active

Communication object: **56 - Outputs 1-2 - Device diagnosis** (6 Byte – specific)

For configuration see section: Devise diagnosis

3.1.4 Restore ETS-Parameters

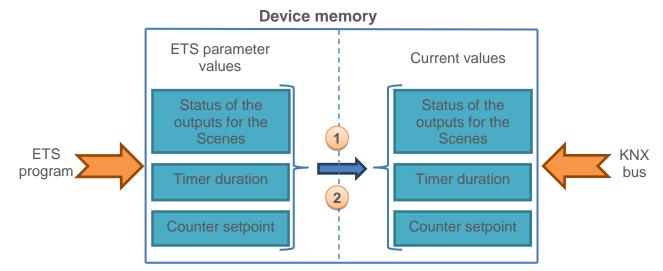
There are two types of parameters in the device:

- Parameters that can only be changed via ETS
- Parameters that can be changed via ETS or via the KNX bus.

For parameters that can be changed via ETS and via the KNX bus, two values are stored in the device memory: the value corresponding to the ETS-parameter and the currently used value.

^{*} Default value





- Receipt of the value "1" on the object, resets the ETS parameter values: Current parameter values are replaced by the ETS-parameter values.
- **Download of the ETS application:** Current parameter values are replaced by the ETS parameter values on download.

Parameter	Description	Value
Activ. of restore ETS- parameters object (scenes, timer,	The Restore ETS-params settings communication object is hidden	Not active*
setpoints)	The Restore ETS-params settings communication object is displayed.	Active
	On receipt of a 1 on this object, the parameters** that are adjustable via the bus are overwritten with values set in the ETS before the last download.	

^{**} Output state for scene x, Timer duration, Operating h. counter setpoint.

Communication **54 - Outputs 1-2 - Restore ETS-params settings** (1 Bit – 1.015 DPT_Reset) object:

Parameter	Description	Value
Parameters overwrite at next download (scenes)	The parameter values stored in the device will remain in the device at the next download.	Not active
	The parameter values stored in the device will be overwritten with the ETS configured values at the next download.	Active*

^{*} Default value



3.1.5 Status during bus power cut or download

Parameter	Description	Value
Status during bus power cut	The output status remains unchanged during a bus power cut	Maintain status*
	The output is turned on when there is a bus power cut	On
	The output is turned off when there is a bus power cut	Off

Parameter	Description	Value
Status at bus return	The output status remains unchanged at bus return	Maintain status*
	The output is switched on at bus return	On
	The output is switched off at bus return	Off

Note: The device will reboot on bus return. The priority functions that were present before the bus power cut, are no longer active.

Parameter	Description	Value
Status after ETS download	The output status remains unchanged after ETS download	Maintain status*
	The output is switched on after ETS download	On
	The output is switched off after ETS download	Off

3.1.6 LED display

Parameter	Description	Value
Device LED switch off object	The "Device LEDs lock-up" communication object is hidden	Not active*
	The "Device LEDs lock-up" communication object is displayed.	Active

This function is used to reduce the overall power consumption of the device. It allows the LEDs on the front of the device to be switched off.

Communication object: 55 - Outputs 1-2 - Device LED lock-up (1 Bit – 1.001 DPT_Switch)

^{*} Default value



Parameter	Description	Value
Polarity	Object Device LED lock receives "0" = the LED display is activated "1" = the LED display isdeactivated	0 = Status indication, 1 = Always OFF*
	"0" = the LED display is deactivated "1" = the LED display is activated	0 = Always OFF, 1 = Status indication

Note: This parameter is only visible if the parameter **Device LED switch off object** has the following

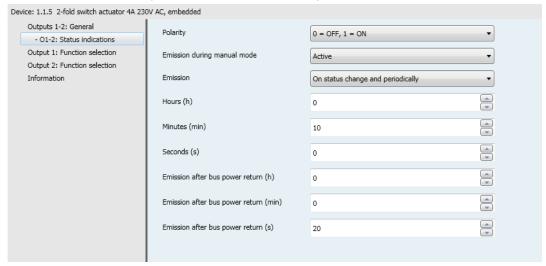
value: Active

^{*} Default value



3.2 Status indication

The status indication function specifies the status of the output contact.



Parameter	Description	Value
Polarity	The Status indication ON/OFF communication object sends: "0" for an open output contact "1" for a closed output contact	0 = OFF; 1 = ON*
	"0" for a closed output contact "1" for an open output contact	0 = ON, 1 = OFF

Note: If the blinking function is activated, the above parameter is ignored and replaced by the **Output status during blinking function** parameter

Parameter	Description	Value
Emission during manual mode	The Status indication ON/OFF communication object sends: values if the output status is switched in manual mode	Active*
	no values if the output status is switched in manual mode.	Not active

Parameter	Description	Value
Emission	The Status indication ON/OFF communication object is sent:	
	On each output change	On status change*
	Periodically after a configurable time	Periodically
	On output change and periodically after a configurable time	On status change and periodically

^{*} Default value



Parameter	Description	Value
Hours (h)	This parameter determines the time between	0 hours: 0 to 23 h
Minutes (min)	the individual transmissions of the Status	10 minutes: 0 to 59 min
Seconds (s)	indication ON/OFF object.	0 seconds: 0 to 59 s

Note: This parameter is only visible if the Emission parameter has the following value: Periodically or

On status change and periodically

Parameter	Description	Value
Emission after bus power return	This parameter determines the delay for emission of the Status change ON/OFF objects on return of the KNX bus after a power cut.	0 hours: 0 to 23 h 0 minutes: 0 to 59 min 20 seconds: 0 to 59 s

Note: The smallest executable time is 1 second

This parameter can be used to optimize the bus load after the return of the bus voltage.

^{*} Default value



3.3 Logic block

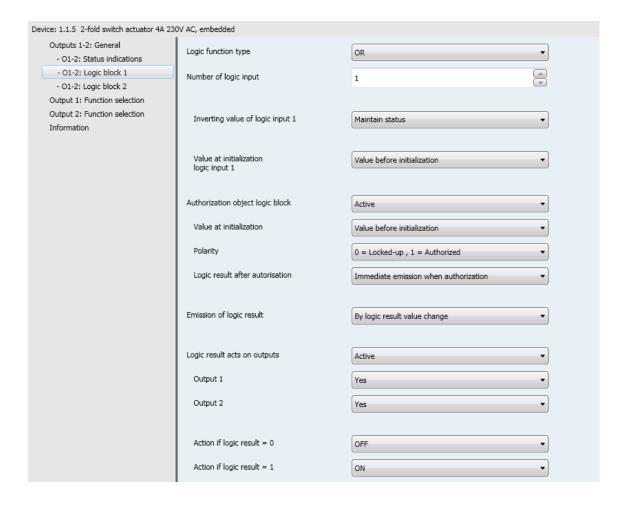
The logic function is used to control an output depending on the result of a logic operation. This command has the lowest priority.

The result of the function can be output on the KNX bus and may directly relate to the status of one or more outputs.

Two logic blocks are available for each device.

The operating mode is determined by the following parameters:

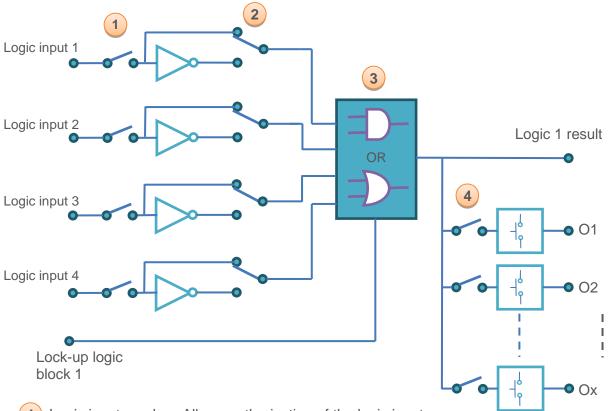
Note: The description of the parameters is given for logic block 1. The parameters and objects are identical for logic block 2; only the terms will be adapted.



^{*} Default value



Operating principle of the logic block:



- 1 Logic input number: Allows authorization of the logic input
- 2 Logic input value: Inverted, yes or no
- 3 Type of logic function (AND or OR): Selection of the logic function
- 4 The logic result is applied to outputs: Selection of the outputs concerned by the logic operation

3.3.1 Configuration of the logic fnction

Parameter	Description	Value
Logic function type	The input objects are	
	OR linked	OR*
	AND linked	AND

For logic table see: Appendix

Parameter	Description	Value
Number of logic inputs	This parameter determines the number of inputs of the logic block. Up to 4 inputs can be used.	1* 2 3 4

Communication objects:

* Default value



```
Block 1: 44 - Logic block 1 - Input 2 (1 Bit - 1.002 DPT_Bool)
45 - Logic block 1 - input 3 (1 Bit - 1.002 DPT_Bool)
46 - Logic block 1 - input 4 (1 Bit - 1.002 DPT_Bool)

Block 2: 50 - Logic block 2 - input 2 (1 Bit - 1.002 DPT_Bool)
51 - Logic block 2 - input 3 (1 Bit - 1.002 DPT_Bool)
52 - Logic block 2 - input 4 (1 Bit - 1.002 DPT_Bool)
```

Parameter	Descriptio	n	Value
Inverting value of logic input x	The value of logic input x v logic block	works on the	
	with its object value	(0=0; 1=1)	Maintain status*
	with inverted object value	(0=1; 1=0)	Status inversion
x= 1 to 4	•		•

Parameter	Description	Value
Value at initialization logic input 1	On initialization of the device after a download or after return of the bus power, the value of the logic input is:	
	set to "0"	0
	set to "1"	1
x= 1 to 4	set according to the value of the logic input before the initialization occurred	Value before initialization*

3.3.2 Logic block authorization

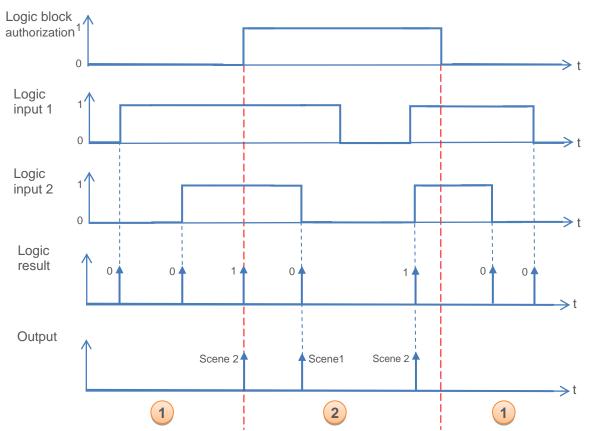
Principle of logic block authorization:

The parameters are set as follows:

- Logic block authorization: 0 = Locked-up, 1 = Authorized
- Action if logic result = 0: Scene 1
- Action if logic result = 1: Scene 2
- Logic input 1 and 2 are AND-linked
- Emission of logic result: By input value change

^{*} Default value





- 1 The logic result has no influence on the output
- 2 The commands from the logic result are executed

Note: The commands from the logic result are executed immediately after authorization, according to the "Logic result after authorization" parameter "Emission"..

Parameter	Description	Value
Authorization object logic block	The "Logic block 1 – Authorization" communication object and related parameters are hidden	Not active*
	The "Logic block 1 – Authorization" communication object and related parameters are displayed.	Active

Note: If the logic block is locked the logic operation is not processed.

Communication objects:

Block 1: **42 - Outputs 1-2 – Lock-up logic block 1** (1 Bit – 1.003 DPT_Enable)
Block 2: **48 - Outputs 1-2 – Lock-up logic block 2** (1 Bit – 1.003 DPT_Enable)

^{*} Default value



Parameter	Description	Value
Value at initialization	On initialization of the device after a download or after return of the bus power, the value of the Logic block 1 – Authorization object is:	
	set to "0"	0
	set to "1"	1
	set according to the value that the object had before initialization	Value before initialization*

Note: This parameter is only visible if the Authorization object logic block parameter has the following

value: Active

Parameter	Description	Value
Polarity	On receipt of a value on the Logic block 1 – Authorization object, this is	
	locked-up on object value "1"	0 = Authorized, 1 = Locked-up
	locked-up on object value "0"	0 = Locked-up, 1 = Authorized*

Note: This parameter is only visible if the Authorization object logic block parameter has the following

value: Active

Parameter	Description	Value
Logic result after authorization	On authorization of the logic block:	
	the value of the Logic result is immediately determined	Immediate emission when authorization*
	the value of the logic result is first determined after receipt of a value on a logic input.	No immediate emission

Note: This parameter is only visible if the Authorization object logic block parameter has the following

value: Active

3.3.3 Logic result

Parameter	Description	Value
Emission of logic result	The Logic result object will be sent on: each receipt of a telegram on one of the logic inputs	On receipt of an input telegram
	a change in the value of the logic result	By logic result value change*

^{*} Default value



Parameter	Description	Value
Logic result acts on outputs	The logic results acts:	
	only on the logic 1 result communication object	Not active*
	on the logic 1 result communication object and directly on one or more outputs.	Active

The status of the affected outputs is determined by the parameter action on logic result = x.

Parameter	Description	Value
Output 1x	The output relationship with the Logic result is:	
	directly dependent	Yes*
	independent	No

Note: This parameter is only visible if the Logic result acts on outputs parameter has the following

value: Active

Parameter	Description	Value
Action if logic result = 0	On the outputs that are directly dependent on Logic 1 result , if the output value = "0", the status:	
	is not changed	Maintain status
	is switched to the opposite status	Inversion
	is selectively switched on	On
	is selectively switched off	OFF*
	starts timer mode	Timer start
	stops timer mode	Timer stop
	starts one of the 64 scenes	Scene number
	adopts the default value given by the parameter Status if preset 1 object = 0	Preset 1
	adopts the default value given by the parameter Status if preset 2 object = 0	Preset 2

Note: The Timer mode, Scene function or Preset function of the selected output must be configured. If this is not the case, the status remains unchanged.

^{*} Default value



Parameter	Description	Value
Scene if logic result = 0	This parameter determines the scene number that is activated if the logic result is 0 after re-	Scenes 1 64
	evaluation.	Default value: 1

The outputs respond according to the scene numbers and associated parameters

Note: This parameter is only visible if the **Action if logic result = 0** parameter has the following value: **Scene number**

Parameter	Description	Value
Action if logic result = 1	On the outputs that are directly dependent on Logic 1 result , if the output value = "0", the status:	
	is not changed	Maintain status
	is switched to the opposite status	Inversion
	is selectively switched on	ON*
	is selectively switched off	OFF
	starts timer mode	Timer start
	stops timer mode	Timer stop
	starts one of the 64 scenes	Scene number
	adopts the default value given by the parameter Status if preset 1 object = 1	Preset 1
	adopts the default value given by the parameter Status if preset 2 object = 1	Preset 2

Note: The Timer mode, Scene function or Preset function of the selected output must be configured. If this is not the case, the status remains unchanged.

Parameter	Description	Value
Scene if logic result = 1	This parameter determines the scene number that is activated if the logic result is 1 after re-	Scenes 1 64
	evaluation.	Default value: 2

The outputs respond according to the scene numbers and associated parameters.

Note: This parameter is only visible if the **Action if logic result = 1** parameter has the following value: **Scene number**

^{*} Default value



3.4 Devise diagnosis

The **Device diagnosis object** allows notifications about the operating status of the device to be sent via the KNX bus.

This information is sent periodically and/or on status change.

The **Device diagnosis** object allows reporting of current faults according to the device and application. It also allows sending of the position of the switch on the front of the device and the number of the output that is affected by the fault(s).

The **Device Diagnosis** object is a 6-byte object that is composed as described below:

Byte number	6 (MSB)	5		4	3	2	1 (LSB)
Use	Switch position	Application type	Output number		Erro	r codes	

Details of the bytes:

- Bytes 1 to 4: correspond to the error codes.

MSB																															LSB
b31	b30	b29	b28	b27	b26	b25	b24	b23	b22	b21	b20	b19	b18	b17	b16	b15	b14	b13	b12	b11	b10	b9	b8	b7	b6	b5	b4	b3	b2	b1	b0
Χ	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	17	16	Х	14	Х	Х	Х	Χ	Χ	Χ	7	Х	5	4	3	2	Х

No.	Faults
2	Wrong context: the user's parameters are not transferable. The standard parameters are restored.
3	TP communication out of operation: Communication via the KNX bus was not available on the previous start.
4	The relay of the output concerned is caught: The output contact is mechanically damaged.
5	Overcurrent on the output concerned: The output current flowing through the output contact is too high.
7	Minimum switching time not complied with: The device is equipped with a mechanism for limiting the number of switching cycles per minute of the output contact. If the user requires a number of switching cycles that is greater than this limit, this bit informs the user that his command was not carried out.
16	Abnormal number of restarts : This bit is use for notification of repeated restarts and/or a restart triggered by a Watch-Dog. Such a restart is not necessarily apparent to the user from the function, rather it is manifest as a disturbed environment or a bad contact of the power supply.

Note: The use of the standard bits depends on the type of device used (switch actuator, dimmer, shutter/blind, etc.). Certain bits are same for all devices and others are application-specific.

^{*} Default value



- Byte 5: corresponds to the application type and the number of the output affected by the error.

MSB							LSB
b7	b6	b5	b4	b3	b2	b1	b0
Application type			O	utpu	ıt nı	umb	er
0 = not	0 =	= de	vice	e eri	ror		
1 = switch actuator			1 =	= ou	tpu	t 1	
2 = shutter/blind			2 =	= ou	tpu	t 2	
3 = dimmer							
			Υ:	= ou	ıtpu	t Y	

Note: Y is the placeholder for the maximum number of outputs.

- Byte 6: Switch position

MSB							LSB
b7	b6	b5	b4	b3	b2	b1	b0
Χ	Χ	Χ	Χ	Χ	Χ	Χ	1

1: 0 = Automatic mode/1 = manual mode Note: bits marked with an x are not used.

Device: 1.1.5 2-fold switch actuator 4A 230V AC, embedded			
Emission	On status shows and anticuliarly.		
Emission	On status change and periodically	Y	
Hours (h)	0		
	ŭ	_	
Minutes (min)	30	•	
		_	
Seconds (s)	0		
	Emission Hours (h) Minutes (min)	Emission On status change and periodically Hours (h) Minutes (min) 30	

Parameter	Description	Value
Emission	The Device diagnosis communication object is sent:	
	on each change	On status change*
	periodically after a configurable time	Periodically
	on change and periodically after a configurable time	On status change and periodically

Parameter	Description	Value
Hours (h)	This parameter determines the time between	0 hours: 0 to 23 h
Minutes (min)	the individual transmissions of the Device	30 minutes: 0 to 59 min.
Seconds (s)	diagnosis object.	0 seconds: 0 to 59 s

Note: The smallest executable time is 1 second.

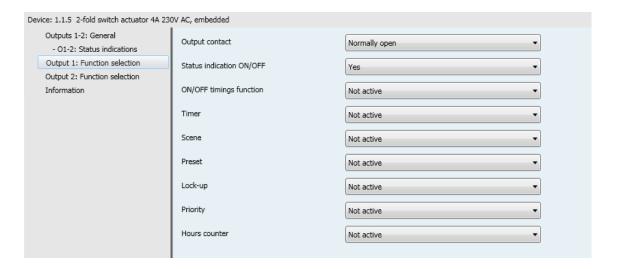
Note: This parameter is only visible if the **Emission** parameter has the following value: **Periodically** or **On status change and periodically**

* Default value



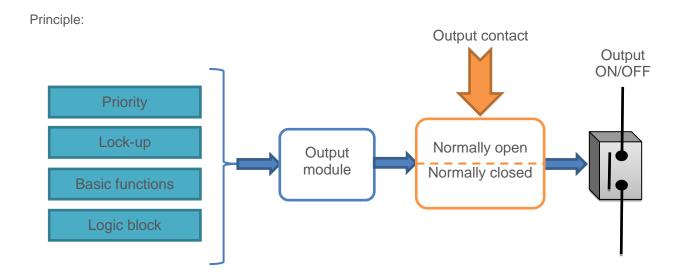
3.5 Function selection

This parameter window is used to set the device outputs. These parameters are available individually for each output.



3.5.1 Definition

Parameter	Description	Value
Output contact	On receipt of an ON command:	
	the output relay closes	Normally open*
	the output relay opens	Normally closed



^{*} Default value



Parameter	Description	Value
Status indication ON/OFF	The Status indication ON/OFF communication object is	
CIWOTT	hidden	No
	displayed, the status indication can be transmitted over the bus.	Yes*

Communication objects: **3 - Output 1 - Status indication ON/OFF** (1 Bit – 1.001 DPT_Switch)

23 - Output 2 - Status indication ON/OFF (1 Bit - 1.001 DPT_Switch)

Note: The transmission conditions for the Status indication objects must be set in the parameter Register "**O1-Ox: Status indication**"

Parameter	Description	Value
ON/OFF timings function	The delay tab and the associated parameters and objects are	
	hidden	Not active*
	displayed	Active

For configuration see section: ON/OFF timings function

Parameter	Description	Value
Timer	The Timer tab and the associated parameters and objects are	
	hidden	Not active*
	displayed	Active

Communication objects: **4 - Output 1 - Timer** (1 Bit – 1.001 DPT_Switch)

24 - Output 2 - Timer (1 Bit – 1.001 DPT_Switch)

For configuration see section: Timer

Parameter	Description	Value
Scene	The Scenes tab and the associated parameters and objects are	
	hidden	Not active*
	displayed	Active

Communication objects: **6 - Output 1 - Scene** (1 Byte - 17.001 DPT_SceneNumber)

26 - Output 2 - Scene (1 Byte - 17.001 DPT_SceneNumber)

For configuration see section: Scene

* Default value



Parameter	Description	Value
Preset	The Preset tab and the associated parameters and objects are	
	hidden	Not active*
	displayed for 1 Preset object	1 preset object
	displayed for 2 Preset objects	2 preset objects

Note: When the value of this parameter changes, the associated parameters and group addresses are deleted.

```
Preset 1 communication 7 - Output 1 - Preset 1 (1 Bit – 1.022 DPT_Scene_AB) objects: 27 - Output 2 - Preset 1 (1 Bit – 1.022 DPT_Scene_AB)
```

```
Preset 2 communication 8 - Output 1 - Preset 2 (1 Bit - 1.022 DPT_Scene_AB) objects: 28 - Output 2 - Preset 2 (1 Bit - 1.022 DPT_Scene_AB)
```

For configuration see section: Preset

Parameter	Description	Value
Lock-up	The Lock-up tab and the associated parameters and objects	
	are	
	hidden	Not active*
	displayed for 1 lock-up object	1 lock-up object
	displayed for 2 lock-up objects	2 lock-up objects

```
Lock-up 1 communication 11 - Output 1 - Lock-up 1 (1 Bit - 1.003 DPT_Enable) objects 31 - Output 2 - Lock-up 1 (1 Bit - 1.003 DPT_Enable)
```

Lock-up 2 communication 12 - Output 1 - Lock-up 2 (1 Bit - 1.003 DPT_Enable) objects: 32 - Output 2 - Lock-up 2 (1 Bit - 1.003 DPT_Enable)

For configuration see section: Lock-up

Parameter	Description	Value
Priority	The Priority tab and the associated parameters and objects are	
	hidden	Not active*
	displayed	Active

The device responds to telegrams received via the **Priority** object, as given in the following table:

^{*} Default value



Telegram received by the priority operation object		Status of the outputs
Bit 1	Bit 2	
0 0		End of the priority
0 1		End of the priority
1	0	Priority OFF
1	1	Priority ON

Communication objects: 14 - Output 1 - Priority (2 Bit – 2.002 DPT_Bool_Control)

34 - Output 2 - Priority (2 Bit – 2.002 DPT_Bool_Control)

For configuration see section: Priority

Parameter	Description	Value
Hours counter	The Hours counter tab and the associated parameters and objects are	
	hidden	Not active*
	displayed	Active

A telegram can be transmitted via the **Operating h. counter setpoint reached** object, in accordance with a programmable setpoint.

It is also possible to reset the count value via a "1" signal on the Reset hours counter value object

Communication objects:

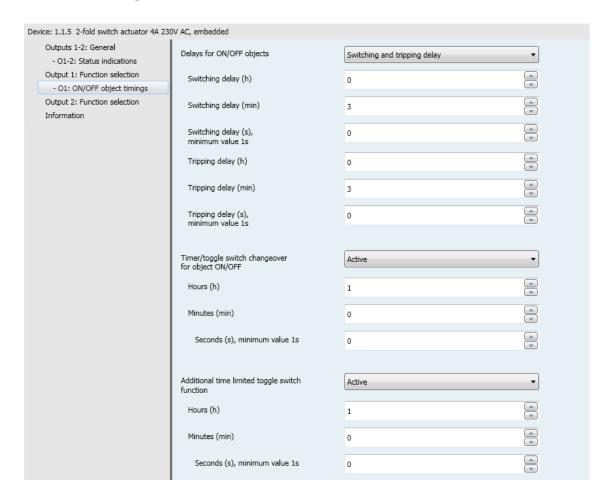
- **16 Output 1 Hours counter value** (2 Byte 7.001 DPT_16_Bit_Counter)
- **36 Output 2 Hours counter value** (2 Byte 7.001 DPT_16_Bit_Counter)
- 17 Output 1 Reset hours counter (1 Bit 1.015 DPT_Reset)
- **37 Output 2 Reset hours counter** (1 Bit 1.015 DPT_Reset)
- **18 Output 1 Hours counter setpoint reached** (1 Bit 1.002 DPT_Bool)
- **38 Output 2 Hours counter setpoint reached** (1 Bit 1.002 DPT_Bool)

For configuration see section: Hours counter

^{*} Default value



3.5.2 ON/OFF timings function



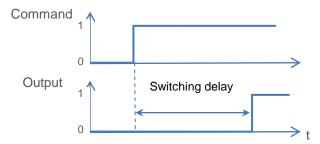
3.5.2.1 Delays for ON/OFF objects

Parameter	Description	Value
Delays for ON/OFF objects	The parameters for time-delayed switching of the outputs are	
	hidden	Not active*
	displayed for Switching delay	Switching delay
	displayed for Tripping delay	Tripping delay
	displayed for Switching and tripping delay	Switching and tripping delay

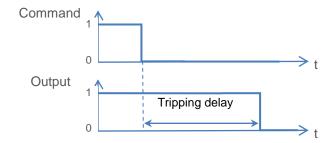
^{*} Default value



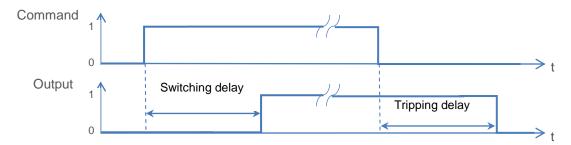
Switching delay: Allows the configuration of a delay between the switch-on command and the switching of the output contact.



Tripping delay: Allows the configuration of a delay between the switch-off command and the switching of the output contact.



Switching and tripping delay: Allows the configuration of a delay between the switch-on command and the switching of the output contact, as well as between the switch-off command and the switching of the output contact.



Parameter	Description	Value
Switching delay	This parameter defines the delay between the switch-on command and the switching of the output contact.	0 hours: 0 to 23 h 3 minutes: 0 to 59 min. 0 seconds: 0 to 59 s

Note: The smallest executable time is 1 second.

Note: This parameter is only visible if the **Delays for ON/OFF objects** parameter has the following

value: Switching delay or Switching and tripping delay.

Parameter	Description	Value
Tripping delay	This parameter defines the delay between the switch-off command and the switching of the output contact.	0 hours: 0 to 23 h 3 minutes: 0 to 59 min. 0 seconds: 0 to 59 s

Note: The smallest executable time is 1 second.

* Default value



Note: This parameter is only visible if the **Delays for ON/OFF objects** parameter has the following value: **Tripping delay** or **Switching and tripping delay**.

3.5.2.2 Timer/toggle switch changeover for ON/OFF object

This function switches the output channels between toggle switch and timer mode. The **ON/OFF** object is used for both functions.

Example: Switching function daytime and Time-limited OFF function at night.

During the day, the button is used as a switch. In the evenings, the button is used as a time-limited OFF switch, so that the light will turn off automatically.

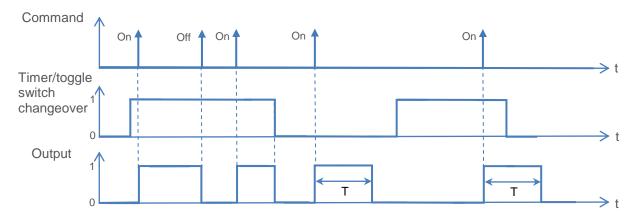
Parameter	Description	Value
Timer/toggle switch changeover for ON/OFF object	The parameters for a switch-over between toggle switch and timer modes for the ON/OFF object are	
	hidden	Not active*
	displayed	Active

Active: The associated parameters and objects are displayed.

- If the **Timer/toggle switch changeover** object receives the value "1", the toggle-switch mode function is activated.

The ON/OFF switching of the output is performed as usual via the **ON/OFF object**.

- If the **Timer/toggle switch changeover** object receives the value "0", the timer mode function is activated.
 - If the ON/OFF object receives the value "1", the output is switched ON.
 After expiry of a configurable time, the output is automatically switched OFF.
 - o If the **ON/OFF object** receives the value "0", the output is switched OFF.



Communication objects: 1 - Output 1 - Timer/toggle switch changeover (1 Bit - 1.001 DPT_Switch)
21 - Output 2 - Timer/toggle switch changeover (1 Bit - 1.001 DPT_Switch)

Parameter	Description	Value
Hours (h) Minutes (min) Seconds (s)	This parameter sets the length of the timer operation, if this is activated.	1 hour: 0 to 23 h 0 minutes: 0 to 59 min. 0 seconds: 0 to 59 s

^{*} Default value



Note: This parameter is only visible if the **Timer/toggle switch changeover** parameter for the ON/OFF object has the following value: **Active**

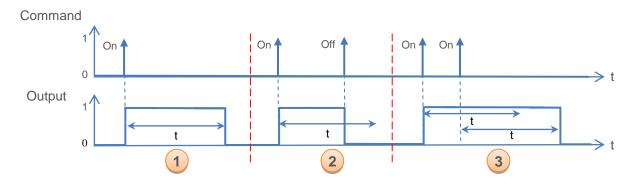
3.5.2.3 Time-limited OFF

The Time-limited OFF function enables automatic switch off after a programmable **Time-limited OFF** time.

The output works as a normal switch actuator but is switched off after a given time for security. Example: Attic, the lighting can be switched normally but switches off after not more than 3 hours.

Parameter	Description	Value
Additional time limited toggle switch function	The parameters for setting the Time-limited OFF time are	
	hidden	Not active*
	displayed	Active

- Function diagram



- 1 Emission of an ON command: The output which is at ON will switch to OFF on expiry of the **Time-limited OFF time**.
- Emission of an ON command: The output switches to ON.
 Emission of an OFF command before expiry of the Time-limited OFF time, t: The output switches to OFF
- 3 Emission of an ON command: The output switches to ON.
 Emission of an ON command before expiry of the **Time-limited OFF time**, t: The output remains at ON and the **Time-limited OFF time**, t, is re-started.

Communication objects: 2 - Output 1 - Time limited toggle switch (1 Bit - 1.001 DPT_Switch)
22 - Output 2 - Time limited toggle switch (1 Bit - 1.001 DPT_Switch)

Parameter	Description	Value
Hours (h) Minutes (min) Seconds (s)	This parameter sets the length of the timer operation for the Time-limited toggle switch , if this is activated.	1 hour: 0 to 23 h 0 minutes: 0 to 59 min. 0 seconds: 0 to 59 s

^{*} Default value

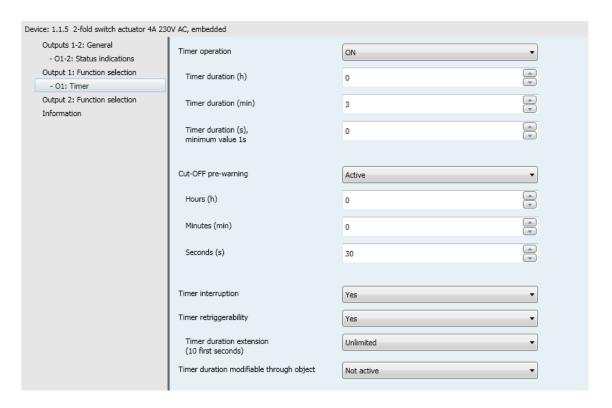


Note: This parameter is only visible if the **Additional time limited toggle switch function** parameter has the following value: **Active**

3.5.3 Timer

The timer function can switch a lighting circuit on or off for a configurable period.

According to the selected operating mode of the timer, the output can be turned ON or OFF for a determined period of time. The timer may be interrupted before expiry of the delay time. A programmable Cut-OFF pre-warning announces the end of the delay time by a 1-second inversion of the output status.



3.5.3.1 Timer operation

Parameter	Description	Value
Timer operation	When the timer is active, the output for the Timer duration is	
	switched ON	ON*
	switched OFF	OFF
	switched alternately ON and OFF (blink time is configurable via additional parameters)	Blinking

^{*} Default value



Parameter	Description	Value
Timer duration	'	0 hours: 0 to 23 h2 minutes: 0 to 59 min.0 seconds: 0 to 59 s

Parameter	Description	Value
Blinking ON duration (s)	This parameter determines the closing duration of the output contact when blinking.	5 seconds: 5 to 240 s

Note: This parameter is only visible if the Timer operation parameter has the following value: Blinking

Parameter	Description	Value
Blinking OFF duration (s)	This parameter determines the opening duration of the output contact when blinking.	5 seconds: 5 to 240 s

Note: This parameter is only visible if the **Timer operation** parameter has the following value: **Blinking**

Parameter	Description	Value
Output status during blinking function	When the switch actuator is blinking, the Status indication ON/OFF object sends	
	the value "1" = ON	ON*
	the value "0" = OFF	OFF
	the values "1" and "0" alternately (The status object blinks accordingly)	ON/OFF

Note: This parameter is only visible if the **Timer operation** parameter has the following value: **Blinking**

3.5.3.2 Cut-OFF pre-warning

Parameter	Description	Value
Cut-OFF pre-warning	Before expiry of the timer delay there is	
	no warning	Not active
	a warning through a 1-second inversion of the output status.	Active*
	The lead time of this warning can be set.	

Parameter	Description	Value
Hours (h) Minutes (min) Seconds (s)	This parameter determines the lead time of the cut-OFF pre-warning	0 hours: 0 to 23 h 0 minutes: 0 to 59 min. 30 seconds: 0 to 59 s
* Default value		



Note: This parameter is only visible if the **Cut-OFF pre-warning** parameter has the following value: **Active**

Note: If the lead time of the cut-OFF pre-warning is greater than the duration of the timer, the cut-OFF pre-warning is not triggered.

3.5.3.3 Configuration

Parameter	Description	Value
Timer interruption	On receiving the value "0" on the Timer communication object, the timing is	
	interrupted	Yes*
	not interrupted	No

Parameter	Description	Value
Timer retriggerability	The parameter Timer duration extension (10 first seconds) is	
	hidden	No
	displayed	Yes*

Parameter	Description	Value
Timer duration extension (10 first seconds)	If, during the first 10 seconds of the timer duration, on the Timer communication object multiple commands with the value "1" are received, it is	
	multiplied unlimited times. multiplied a maximum of 1x multiplied a maximum of 2x multiplied a maximum of 3x multiplied a maximum of 4x multiplied a maximum of 5x.	Unlimited* 1-time duration extension 2-time duration extension 3-time duration extension 4-time duration extension 5-time duration extension

Parameter	Description	Value
Timer duration modifiable through	The Timer duration communication object is	
object	hidden	Not active*
	displayed, the timer duration can be transmitted via the bus.	Active

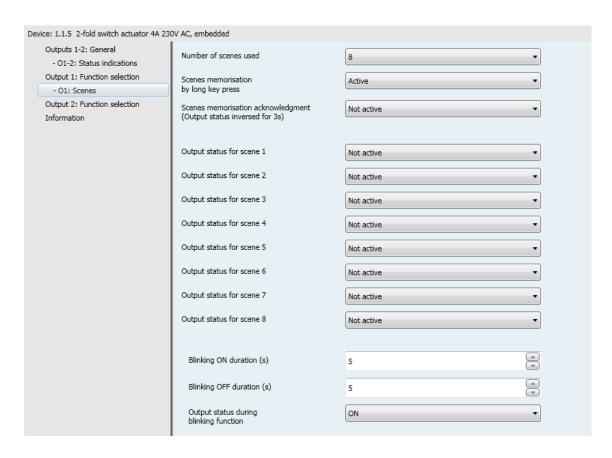
Communication objects: **5 - Output 1 - Timer duration** (3 Byte - 10.001 DPT_TimeOfDay)

25 - Output 2 - Timer duration (3 Byte – 10.001 DPT_TimeOfDay)

^{*} Default value



3.5.4 Scene



Parameter	Description	Value
Number of scenes used	This parameter determines the number of scenes used.	8 * - 16 – 24 – 32 – 48 - 64

Note: If the Scene number received on the Scene object is greater than the maximum number of scenes, the status of the output remains unchanged.

Parameter	Description	Value
Scenes memorisation by long key press	This parameter allows learning and storing of a scene by a long press (> 5 seconds) of the corresponding push button.	Not active Active*

^{*} Default value



Learning and storing scenes

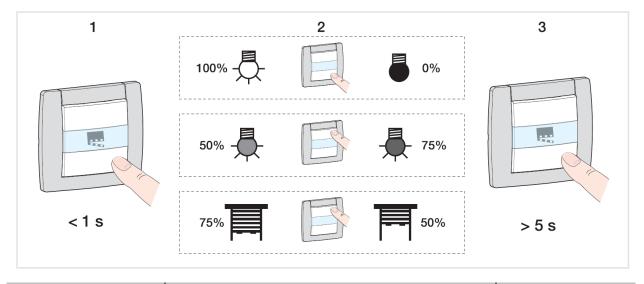
This process is used to change and store a scene. For example, by locally pressing the key in the room or by emission of the values from a visualization.

To access and store scenes, the following values must be sent.

Scene number	Access scene (object value 1-byte)	Store scene (object value 1-byte)
1-64	= Scene number -1	= Scene number +128
Examples		
1	0	128
2	1	129
3	2	130
64	63	191

Here is the scene memorisation for local switches, for example.

- Activate scene by briefly pressing the transmitter that starts it,
- The outputs (lights, shutters, etc.) are set in the desired state using the usual local control devices (buttons, remote control, etc.),
- Memorise the status of the outputs with a press greater than 5 seconds long on the transmitter that starts the scene. The memorisation can be displayed by short-term activation of the outputs.



	Parameter	Description	Value
	cenes memorisation cknowledgment	Memorisation of a scene is	
a	oknowioaginom	not acknowledged	Not active*
		acknowledged by the output by a 3 second long inversion of the output status.	Active

^{*} Default value



Parameter	Description	Value
Output status for scene X	On activation of Scene X, the output is	
^	not altered	Not active*
	switched ON	On
	switched OFF	Off
	switched alternately ON and OFF (blink time is configurable via additional parameters)	Blinking

X = 1 to 64

Note: Each output has up to 64 scenes available, in accordance with the **Number of scenes used** parameter

Parameter	Description	Value
Blinking ON duration (s)	This parameter determines the closing duration of the output contact when blinking.	5 seconds: 5 to 240 s

Note: This parameter applies to all scenes involving the respective output, which has the following value: **Blinking**

Parameter	Description	Value
Blinking OFF duration (s)	This parameter determines the opening duration of the output contact when blinking.	5 seconds: 5 to 240 s

Note: This parameter applies to all scenes involving the respective output, which has the following value: **Blinking**

Parameter	Description	Value
Output status during blinking function	When the switch actuator is blinking, the Status indication ON/OFF object sends	
	the value "1" = ON	ON*
	the value "0" = OFF	OFF
	the values "1" and "0" alternately (The status object blinks accordingly)	ON/OFF

Note: This parameter applies to all scenes involving the respective output, which has the following value: **Blinking**

^{*} Default value



3.5.5 **Preset**



The Preset function is used to switch an output into various predefined states. The preset function is activated via 1-bit format objects.

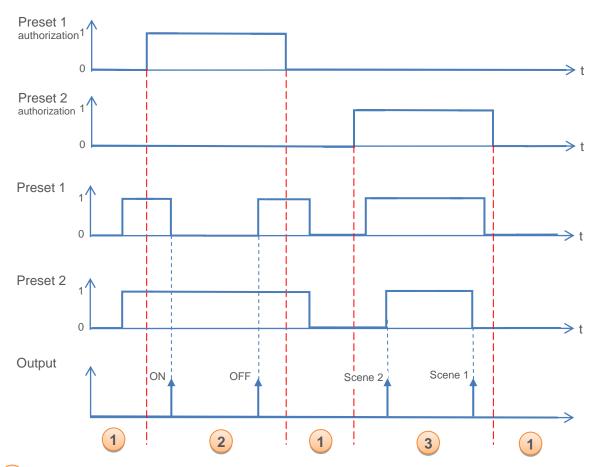
Principle of Preset authorization:

The parameters are set as follows:

- Polarity of Preset 1 authorization object: 0 = Locked-up, 1 = Authorized
- Polarity of Preset 2 authorization object: 0 = Locked-up, 1 = Authorized
- Status if preset 1 object = 0 ON
- Status if preset 1 object = 1 OFF
- Status if preset 2 object = 0 Scene1
- Status if preset 2 object = 1 Scene 2

^{*} Default value





- 1 The preset inputs have no influence on the output
- 2 The commands from Preset 1 are executed
- 3 The commands from Preset 2 are executed

Note: The commands from the Preset will not be executed immediately after authorization, but only when the value of the Preset changes.

Parameter	Description	Value
Preset authorization objects	The "Preset 1 authorization" communication object and associated parameters are	
	hidden	Not active*
	displayed	Active
	This object is used to authorize or lock-up the Preset 1 function via a bus telegram.	

Note: The number of available Preset objects is dependent on the **Preset** parameter. A maximum of two of these objects can be available.

^{*} Default value



Communication objects: **9 - Output 1 - Preset 1 authorization** (1 Bit – 1.003 DPT_Enable)

29 - Output 2 - Preset 1 authorization (1 Bit - 1.003 DPT_Enable)

Communication objects: **10 - Output 1 - Preset 2 authorization** (1 Bit – 1.003 DPT_Enable)

30 - Output 2 - Preset 2 authorization (1 Bit – 1.003 DPT_Enable)

Note: The parameters and objects are identical for Preset 2, only the terms are adjusted.

Parameter	Description	Value
Value of authorization preset 1 at initialization	On initialization of the device after a download or after return of the bus power, the value of the Preset 1 authorization object is:	
	set to "0"	0
	set to "1"	1
	set according to the value that the object had before initialization.	Value before initialization*

Note: This parameter is only visible if the Preset authorization objects parameter has the following

value: Active

Parameter	Description	Value
Polarity of Preset 1 authorization object	On receipt of a value on the Preset 1 authorization object, Preset 1	
	is locked-up on object value "1"	0 = Authorized, 1 = Locked-up
	is locked-up on object value "0"	0 = Locked-up, 1 = Authorized*

Note: This parameter is only visible if the Preset authorization objects parameter has the following

value: Active

Parameter	Description	Value
Status if preset 1 object = 0	On receipt of the value "0" on the Preset 1 object, the output is:	
	not changed	Maintain status*
	switched to the opposite status	Inversion
	selectively switched on	On
	selectively switched off	Off
	set to a scene value	Scene number
	set in blinking mode	Blinking
	switched to the status that was active before last receiving the value "1" on the Preset 1 object.	Status before preset 1 = 1

^{*} Default value



Parameter	Description	Value
Scene if Preset 1=0	This parameter determines the value of the scene if: - The Preset 1 object has value "1".	Scenes 1 64
	 The Status on preset 1 object = 0 object has the scene value 	Default value: 1

Parameter	Description	Value
Status if preset 1 object = 1	On receipt of the value "1" on the Preset 1 object, the output is:	
	not changed	Maintain status*
	switched to the opposite status	Inversion
	selectively switched on	On
	selectively switched off	Off
	set to a scene value	Scene number
	set in blinking mode	Blinking
	switched to the status that was active before last receiving the value "1" on the Preset 1 object.	Status before preset 1 = 0

Parameter	Description	Value
Scene if Preset 1=1	This parameter determines the value of the scene if: - The Preset 1 object has value "1".	Scenes 1 64
	- The Status on preset 1 object = 1 object has the scene value	Default value: 2

Parameter	Description	Value
Blinking ON duration (s)	This parameter determines the closing duration of the output contact when blinking	5 seconds: 5 to 240 s

Note: This parameter is only visible if the **Status if preset 1 object = 0** parameter or the **Status if preset 1 object = 1** parameter has the following value: **Blinking**

Parameter	Description	Value
Blinking OFF duration (s)	This parameter determines the opening duration of the output contact when blinking.	5 seconds: 5 to 240 s

Note: This parameter is only visible if the **Status if preset 1 object = 0** parameter or the **Status if preset 1 object = 1** parameter has the following value: **Blinking**

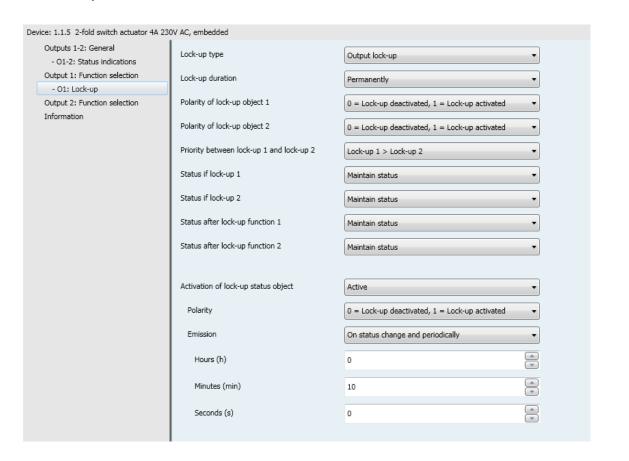
^{*} Default value



Parameter	Description	Value
Output status during blinking function	When the switch actuator is blinking, the Status indication ON/OFF object sends	
	the value "1" = ON	ON*
	the value "0" = OFF	OFF
	the values "1" and "0" alternately (The status object blinks accordingly)	ON/OFF

Note: This parameter is only visible if the **Status if preset 1 object = 0** parameter or the **Status if preset 1 object = 1** parameter has the following value: **Blinking**

3.5.6 Lock-up



The lock-up function is used to lock the output in a predefined state.

Priority: Priority > **Lock-up** > basic functions.

The lock-up prevents any actuation until an unlock command has been received.

The Lock-up duration can be set.

^{*} Default value



Parameter	Description	Value
Lock-up type	The Lock-up acts:	
	directly on the switch actuator. As long as the Lock-up is active, the output can only be controlled by higher priority commands. The output status at the end of the lock-up can be set.	Output lock-up*
	on selected communication objects. As long as the lock-up is active, the output can only be controlled via specific selectable objects.	Objects lock-up

Parameter	Description	Value
Lock-up duration	The duration of the lock-up is	
	not time limited, the lock-up is only authorized by means of a telegram on Lock-up 1 object.	Permanently*
	The lock-up is active for a limited time. After expiry of this time, control of the output is authorized.	Time limited

Parameter	Description	Value
Hours (h) Minutes (min) Seconds (s)	This parameter determines the activation time of the lock-up.	0 hours: 0 to 23 h 15 minutes: 0 to 59 min. 0 seconds: 0 to 59 s

Note: The smallest executable time is 1 second.

Note: This parameter is only visible if the **Lock-up duration** parameter has the following value: **Time**

limited

Parameter	Description	Value
Polarity of lock-up object 1	On receipt of a value on the Lock-up 1 object, the lock-up	
	is activated on object value "1" is deactivated on object value "0"	0 = Lock-up deactivated, 1 = Lock-up activated*
	activated on object value "0" deactivated on object value "1"	0 = Lock-up activated, 1 = Lock-up deactivated

Note: The parameters and objects are identical for Lock-up 2, only the terms will be adjusted.

^{*} Default value



Parameter	Description	Value
Priority between lock-up 1 and lock-up 2	The priority between lock-up 1 and lock-up 2 is set as follows:	
	Lock-up 1 has priority over lock-up 2	Lock-up 1 > Lock-up 2*
	Lock-up 2 has priority over lock-up 1	Lock-up 1 < Lock-up 2
	Lock-up 1 and lock-up 2 have the same priority	Lock-up 1 = Lock-up 2

Note: This parameter is only visible if the **Lock-up** parameter has the following value: **Active with 2 lock-up objects**

Note: The priority of the lock-up always functions in the same way, independently of the lock-up type (Output lock-up or object lock-up),

Operating principle of the priorities:

If Lock-up 1 > Lock-up 2

Active lock-up	Activation order of Lock-up 1	Activation order of Lock-up 2
None	Lock-up 1 is activated	Lock-up 2 is activated
Lock-up 1	Lock-up 1 remains active	Despite the activation order of Lock-up 2, Lock-up 1 remains activated
Lock-up 2	Lock-up 1 is activated	Lock-up 2 remains active

If Lock-up 1 = Lock-up 2

Active lock-up	Activation order of Lock-up 1	Activation order of Lock-up 2
None	Lock-up 1 is activated	Lock-up 2 is activated
Lock-up 1	Lock-up 1 remains active	Lock-up 2 is activated
Lock-up 2	Lock-up 1 is activated	Lock-up 2 remains active

If Lock-up 1 < Lock-up 2

Active lock-up	Activation order of Lock-up 1	Activation order of Lock-up 2
None	Lock-up 1 is activated	Lock-up 2 is activated
Lock-up 1	Lock-up 1 remains active	Lock-up 2 is activated
Lock-up 2	Despite the activation order of Lock-up 1, Lock-up 2 remains activated	Lock-up 2 remains active

^{*} Default value



Parameter	Description	Value
Status if lock-up 1	If the Lock-up type is set to "Output lock- up", on activation of the lock-up the output will:	
	not change	Maintain status*
	switch to the opposite status	Inversion
	selectively switch on	On
	selectively switch off	Off

Note: The parameters and objects are identical for Lock-up 2, only the terms will be adjusted.

Control is possible via the following objects despite Lock-up 1:

The parameters listed below allow the selection of the objects. The output can be controlled via the nevertheless active Lock-up.

Note: These parameters are only visible if the **Lock-up type** parameter has the following value: **Objects lock-up**

Parameter	Objects concerned	Value
ON/OFF	ON/OFF	Yes No*
Scene	Scene	Yes No*
Timer	Timer	Yes No*
Timer/toggle switch changeover	Timer/toggle switch changeover	Yes No*
Time limited toggle switch	Time limited toggle switch	Yes No*
Preset 1	Preset 1	Yes No*
Preset 2	Preset 2	Yes No*

Note: The parameters and objects are identical for Lock-up 2, only the terms will be adjusted.

^{*} Default value



Parameter	Description	Value
Status after lock-up function 1	If the Lock-up type is set to "Output lock-up", on cancellation of the lock-up the output will:	
	not change	Maintain status*
	switch to the opposite status	Inversion
	selectively switch on	On
	selectively switch off	Off
	return to the status that was active before the lock-up	Status before lock-up

Note: The application of this parameter depends on the priority of the other active functions. If a function with higher priority is active, this parameter will not be enacted. In the case where two functions with the same priority are active, the parameter of the most recently switched off function is enacted.

Note: The parameters and objects are identical for Lock-up 2, only the terms will be adjusted.

Parameter	Description	Value
Activation of lock-up status object	The "Status indication lock-up" communication object is hidden	Not active*
	The "Status indication lock-up" communication object is displayed	Active

Communication objects: 13 - Output 1 - Status indication lock-up (1 Bit - 1.011 DPT_State)

33 - Output 2 - Status indication lock-up (1 Bit - 1.011 DPT_State)

Parameter	Description	Value
Polarity	The Status indication Lock-up communication object sends:	
	"0" on deactivation of the lock-up "1" on activation of the lock-up	0 = Lock-up deactivated, 1 = Lock-up activated*
	"1" on deactivation of the lock-up "0" on activation of the lock-up	0 = Lock-up activated, 1 = Lock-up deactivated

^{*} Default value



Parameter	Description	Value
Emission	The Status indication lock-up communication object is sent:	
	on activation and deactivation of the lock-up	On status change*
	periodically after a configurable time	Periodically
	on activation and deactivation of the lock-up and periodically after a configurable time	On status change and periodically

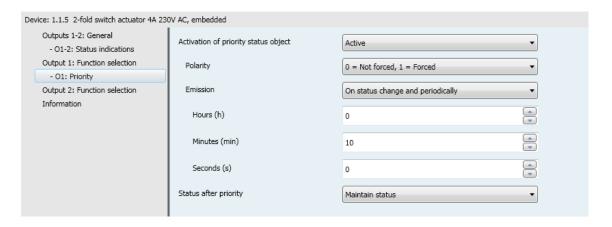
Note: This parameter is only visible if the **Activation of lock-up status object** parameter has the following value: **Active**

Parameter	Description	Value
Hours (h)	This parameter determines the time between	0 hours: 0 to 23 h
Minutes (min)	the individual transmissions of the Activation	10 minutes: 0 to 59 min.
Seconds (s)	of lock-up status object.	0 seconds: 0 to 59 s

Note: The smallest executable time is 1 second.

Note: This parameter is only visible if the **Emission** parameter has the following value: **Periodically** or **On status change and periodically**

3.5.7 Priority



The Priority is used to force the output into a predefined state.

Priority: **Priority** > Lock-up > Basic functions.

No other command is taken into account when the Priority is active.

Only by ending the Priority are other commands again permitted.

^{*} Default value



Parameter	Description	Value
Activation of priority status object	The "Status indication priority" communication object and related parameters are hidden	Not active*
	The "Status indication priority" communication object and related parameters are displayed.	Active

Communication objects: **15 - Output 1 - Status indication priority** (1 Bit – 1.011 DPT_State)

35 - Output 2 - Status indication priority (1 Bit - 1.011 DPT_State)

Parameter	Description	Value
Polarity	The Status indication priority communication object sends: "1" on activation of the Priority "0" on deactivation of the Priority	0 = Not forced, 1 = Forced*
	"1" on deactivation of the Priority "0" on activation of the Priority	0 = Forced, 1 = Not forced

Note: This parameter is only visible if the **Activation of priority status object** parameter has the following value: **Active**

Parameter	Description	Value
Emission	The Status indication priority communication object is sent:	
	on activation and deactivation of the Priority	On status change*
	periodically after a configurable time	Periodically
	on activation and deactivation of the Priority and periodically after a configurable time	On status change and periodically

Note: This parameter is only visible if the **Activation of priority status object** parameter has the following value: **Active**

Parameter	Description	Value
Hours (h)	This parameter determines the time between	0 hours: 0 to 23 h
Minutes (min)	the individual transmissions of the Activation	10 minutes: 0 to 59 min.
Seconds (s)	of priority status object.	0 seconds: 0 to 59 s

Note: The smallest executable time is 1 second.

Note: This parameter is only visible if the **Emission** parameter has the following value: **Periodically** or **On status change and periodically**

^{*} Default value



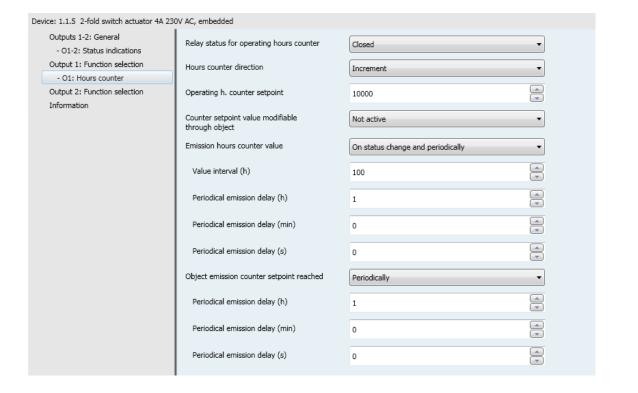
Parameter	Description	Value
Status after priority	At the end of the priority, the output is:	
	not changed	Maintain status*
	switched to the opposite status	Inversion
	selectively switched on	ON
	selectively switched off	OFF
	switched back to the status before priority was activated	Status before priority
	switched to the status which would be active according to other communication objects if the priority had not taken place	Theoretical status without priority

Note: The application of this parameter depends on the priority of the other active functions. If a function with higher priority is active, this parameter will not be enacted. In the case where two functions with the same priority are active, the parameter of the most recently switched off function is enacted.

3.5.8 Hours counter

The hours counter function is used to count the overall operating time of an output in the ON or OFF state.

The operating hours counter setpoint can be programmed and altered via an object.



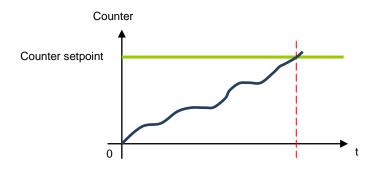
^{*} Default value



Parameter	Description	Value
Relay status for operating hours counter	The hours counter runs if	
operaning neare econic	the output is closed	Closed*
	the output is open	Open

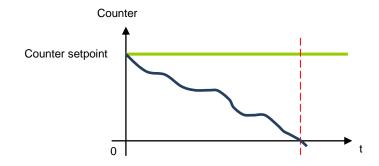
Parameter	Description	Value
Hours counter direction	The hours counter counts	
	ир	Increment*
	down	Countdown

Increment:



The counter starts to count up from the value 0. As soon as the counter setpoint (**Operating h. counter setpoint** object) is reached, the **Hours counter setpoint reached** object is set to "1" and sent to the bus.

Countdown:



The counter starts to count down from the operating hours counter setpoint (**Operating h. counter setpoint** object). As soon as the counter reaches 0, the **Hours counter setpoint reached** is set to "1" and sent to the bus.

^{*} Default value



Parameter	Description	Value
Operating h. counter setpoint	This parameter determines the value of the hours counter	1 10000 *65535 (hours)

An incrementing counter starts at 0 and counts up until it reaches the setpoint value.

A countdown counter starts to count at the setpoint value and counts down until it has arrived at 0.

Parameter	Description	Value
Counter setpoint value modifiable through object	The "Operating h. counter setpoint" communication object is hidden	Not active*
	The "Operating h. counter setpoint" communication object is displayed The value can be changed via the KNX bus	Active

Communication objects:

19 - Output 1 - Operating h. counter setpoint (2 Byte - 7.001 DPT_16_Bit_Counter)

39 - Output 2 - Operating h. counter setpoint (2 Byte - 7.001 DPT_16_Bit_Counter)

Parameter	Description	Value
Emission hours counter value	The Hours counter value communication object is sent:	
	On each change	On status change*
	Periodically after a configurable time	Periodically
	On each change and periodically after a configurable time	On status change and periodically
Parameter	Description	Value
Value interval (h)	This parameter specifies the value interval (in hours) for the sending frequency of the	1 100 * 65535 (hours)

Note: If the value interval is 200 hours, then the **Operating h. counter setpoint** object is sent each time the Operating h. counter value is increased by 200 hours.

Operating h. counter setpoint object.

Note: This parameter is only visible if the **Emission hours counter value** parameter has the following value: **On status change** or **On status change and periodically**

Parameter	Description	Value
Periodical emission delay	This parameter determines the time between the individual transmissions of the Operating	1 hour: 0 to 23 h 0 minutes: 0 to 59 min.
•	h. counter setpoint object.	0 seconds: 0 to 59 s

Note: The smallest executable time is 1 second.

^{*} Default value



Note: This parameter is only visible if the **Emission hours counter value** parameter has the following value: **Periodically** or **On status change and periodically**

Parameter	Description	Value	
Object emission counter setpoint reached	The Hours counter setpoint reached communication object is sent:		
	On reaching the counter setpoint	On status change	
	Periodically after a configurable time	Periodically*	
	On reaching the counter setpoint and periodically after a configurable time.	On status change and periodically	
Parameter	Description	Value	
Periodical emission delay	This parameter determines the time between the individual transmissions of the Hours counter setpoint reached object.	1 hour: 0 to 23 h 0 minutes: 0 to 59 min. 0 seconds: 0 to 59 s	

Note: The smallest executable time is 1 second.

Note: This parameter is only visible if the **Object emission counter setpoint reached** parameter has

the following value: Periodically or On status change and periodically

^{*} Default value



4 Communication objects

4.1 Communication objects General

	Number	Name	Object function	Length	С	R	w	Т
-	42	Logic block 1	Authorization	1 Bit	С	R	W	-
□ ≵I	43	Logic block 1	Input 1	1 Bit	С	R	W	-
□ ≵I	44	Logic block 1	Input 2	1 Bit	С	R	W	-
□ ≵I	45	Logic block 1	Input 3	1 Bit	С	R	W	•
□ ≵I	46	Logic block 1	Input 4	1 Bit	С	R	W	-
□ ≵I	47	Logic block 1	Logic result	1 Bit	С	R	-	Т
□ ≵I	48	Logic block 2	Authorization	1 Bit	С	R	W	-
□ ≵I	49	Logic block 2	Input 1	1 Bit	С	R	W	-
□ ≵I	50	Logic block 2	Input 2	1 Bit	С	R	W	-
□ ≵I	51	Logic block 2	Input 3	1 Bit	С	R	W	-
□ ≵I	52	Logic block 2	Input 4	1 Bit	С	R	W	-
□ ≵I	53	Logic block 2	Logic result	1 Bit	С	R	-	Т
□ ≵I	54	Outputs 1-2	Restore ETS-params settings	1 Bit	С	R	W	-
□ ≵I	55	Outputs 1-2	Device LED switch off	1 Bit	С	R	W	•
■ ≵I	56	Outputs 1-2	Devise diagnosis	6 Byte	С	R	-	Т

4.1.1 Logic block

No.	Description	Function of the object	Data type	Flags
42	Logic block 1	Authorization	1 Bit – 1.003 DPT_Enable	C, R, W

This object is activated if the **Logic block 1** parameter and the **Lock-up logic block** object are active.

This object makes it possible to activate or deactivate the logic blocks of the device via the KNX bus. Object value: depends on the **Polarity** parameter.

0 = Locked-up, 1 = Authorized:

- If the object receives the value "1", logic block 0 is deactivated.
- If the object receives the value "1", logic block 1 is activated.

0 = Authorized, 1 = Locked-up:

- If the object receives the value "1", logic block 0 is activated.
- If the object receives the value "1", logic block 1 is deactivated.

The value of this object can be initialized at start-up of the device.

For further information, see: Logic block



No.	Description	Function of the object	Data type	Flags
43	Logic block 1	Input 1	1 Bit – 1.002 DPT_Bool	C, R, W
44	Logic block 1	Input 2	1 Bit – 1.002 DPT_Bool	C, R, W
45	Logic block 1	Input 3	1 Bit – 1.002 DPT_Bool	C, R, W
46	Logic block 1	Input 4	1 Bit – 1.002 DPT_Bool	C, R, W

These objects are activated in accordance with the value of the **Number of logic inputs** parameter. There may be up to a maximum of 4 of these objects.

These objects are used to produce the status of a logic input for processing of the logic operation.

The value of these objects can be initialized at start-up of the device.

For further information, see: Logic block

No.	Description	Function of the object	Data type	Flags
47	Logic block 1	Logic result	1 Bit – 1.002 DPT_Bool	C, R, T

This object is activated when the **Logic block 1** parameter is active.

This object enables output of the results of the logic operation via the bus.

The value of the object is the result of a logic AND or OR operation, according to the status of the logic inputs. There may be up to a maximum of 4 of these objects. This result can also be directly assigned to the status of the output contact.

For further information, see: Logic block

No.	Description	Function of the object	Data type	Flags				
48	Logic block 2	Authorization	1 Bit – 1.003 DPT_Enable	C, R, A				
See ol	See object No. 42							

No.	Description	Function of the object	Data type	Flags				
49	Logic block 2	Input 1	1 Bit – 1.002 DPT_Bool	C, W				
50	Logic block 2	Input 2	1 Bit – 1.002 DPT_Bool	C, W				
51	Logic block 2	Input 3	1 Bit – 1.002 DPT_Bool	C, W				
52	Logic block 2	Input 4	1 Bit – 1.002 DPT_Bool	C, W				
See o	See object No. 43							

No.	Description	Function of the object	the object Data type				
53	Logic block 2	Logic result	1 Bit – 1.002 DPT_Bool	C, R, T			
See of	See object No. 47						

4.1.2 Behaviour of the device

No.	Description	Function of the object	Data type	Flags
54	Outputs 1-2	Restore ETS-params settings	1 Bit – 1.015 DPT_Reset	C, R, W

This object is activated if the **Activ. of restore ETS-parameters object (scenes, timer, setpoints)** parameter is active.

This object enables the current parameter value to be replaced at any time with the ETS parameter value.

If the object receives value "1", then the output status values for the scenes, the timer duration specifications and all the counter setpoints are reset to the values sent by the last download.

For further information, see: Restore ETS-params settings



No.	Description	Function of the object	Data type	Flags
55	Outputs 1-2	Device LED switch off	1 Bit – 1.001 DPT_Switch	C, R, W

This object is activated if the **Device LEDS lock-up** object parameter is active.

This function is used to reduce the overall power consumption of the device. It allows the LEDs on the front of the device to be switched off.

Object value: depends on the Polarity parameter

0 = Status indication, 1 = Always OFF:

- If the object receives value "0", the LED display is activated.
- If the object receives value "1", the LED display is deactivated.

0 = Always OFF, 1 = Status indication:

- If the object receives value "0", the LED display is deactivated.
- If the object receives value "1", the LED display is activated.

For further information, see: LED display

4.1.3 Device diagnosis

No.	Description	Function of the object	Data type	Flags
56	Outputs 1-2	Devise diagnosis	6 Byte - Specific	C, R, T

This object is activated when the **Device diagnosis object** parameter is active.

The object enables reporting of current faults according to the device and the application used. It also allows sending of the position of the switch on the front of the device and the number of the output that is affected by the fault(s).

Byte count	6 (MSB)	5		4	3	2	1 (LSB)
Use	Switch position	Application type	Output number		Erro	r codes	

This object is sent periodically and/or on status change.

For further information, see: Device diagnosis



4.2 Output communication objects

	Number	Name	Object function	Length	С	R	W	Т
□	0	Output 1	ON/OFF	1 Bit	С	R	W	-
□ ≵I	1	Output 1	Timer/toggle switch changeover	1 Bit	С	R	W	-
□≵	2	Output 1	Time limited toggle switch	1 Bit	С	R	W	-
□ ≵I	3	Output 1	Status indication ON/OFF	1 Bit	С	R	-	Т
□ ≵I	4	Output 1	Timer	1 Bit	С	R	W	-
□ ≵I	5	Output 1	Timer duration	3 Byte	С	R	W	-
■ ≵I	6	Output 1	Scene	1 Byte	С	R	W	-
□ ≵I	7	Output 1	Preset 1	1 Bit	С	R	W	-
■ ≵I	8	Output 1	Preset 2	1 Bit	С	R	W	-
□ ≵I	9	Output 1	Preset 1 authorization	1 Bit	С	R	W	-
■ ≵I	10	Output 1	Preset 2 authorization	1 Bit	С	R	W	-
□ ≵I	11	Output 1	Lock-up 1	1 Bit	С	R	W	-
■ ≵I	12	Output 1	Lock-up 2	1 Bit	С	R	W	-
□ ≵I	13	Output 1	Status indication lock-up	1 Bit	С	R	-	Т
■ ≵I	14	Output 1	Priority	2 Bit	С	R	W	-
□ ≵I	15	Output 1	Status indication priority	1 Bit	С	R	-	Т
■ ≵I	16	Output 1	Hours counter value	2 Byte	С	R	-	Т
□ ≵I	17	Output 1	Reset Hours counter	1 Bit	С	R	W	-
■ ≵I	18	Output 1	Hours counter setpoint reached	1 Bit	С	R	-	Т
□ ≵I	19	Output 1	Operating h. counter setpoint	2 Byte	С	R	W	-



	Number	Name	Object function	Length	С	R	W	Т
□ ≵I	20	Output 2	ON/OFF	1 Bit	С	R	W	-
□ ≵I	21	Output 2	Timer/toggle switch changeover	1 Bit	С	R	W	-
□ ≵I	22	Output 2	Time limited toggle switch	1 Bit	С	R	W	-
□ ≵I	23	Output 2	Status indication ON/OFF	1 Bit	С	R	-	Т
□ ≵I	24	Output 2	Timer	1 Bit	С	R	W	-
□ ≵I	25	Output 2	Timer duration	3 Byte	С	R	W	-
□ ≵I	26	Output 2	Scene	1 Byte	С	R	W	-
□ ≵I	27	Output 2	Preset 1	1 Bit	С	R	W	-
□ ≵I	28	Output 2	Preset 2	1 Bit	С	R	W	-
□ ≵I	29	Output 2	Preset 1 authorization	1 Bit	С	R	W	-
□ ≵I	30	Output 2	Preset 2 authorization	1 Bit	С	R	W	-
□ ≵I	31	Output 2	Lock-up 1	1 Bit	С	R	W	-
□ ≵I	32	Output 2	Lock-up 2	1 Bit	С	R	W	-
□ ≵I	33	Output 2	Status indication lock-up	1 Bit	С	R	-	Т
□ ≵I	34	Output 2	Priority	2 Bit	С	R	W	-
□ ≵I	35	Output 2	Status indication priority	1 Bit	С	R	-	Т
□ ≵I	36	Output 2	Hours counter value	2 Byte	С	R	-	Т
□ ≵I	37	Output 2	Reset Hours counter	1 Bit	С	R	W	-
□ ≵I	38	Output 2	Hours counter setpoint reached	1 Bit	С	R	-	Т
□ ≵I	39	Output 2	Operating h. counter setpoint	2 Byte	С	R	W	-

4.2.1 ON/OFF

No.	Description	Function of the object	Data type	Flags
0, 20	Output x	ON/OFF	1 Bit – 1.001 DPT_Switch	C, R, W

These objects are always activated. They enable switching of the output contact in accordance with the value that is sent via the KNX bus

Object value: depends on the **Output contact** parameter.

Normally open:

- On input of an OFF command, the output relay contact opens.
- On input of an ON command, the output relay contact closes.

Normally closed:

- On input of an OFF command, the output relay contact closes.
- On input of an ON command, the output relay contact opens.

For further information, see: **Definition**



4.2.2 ON/OFF timings function

No.	Description	Function of the object	Data type	Flags
1, 21	Output x	Timer/toggle switch changeover	1 Bit – 1.001 DPT_Switch	C, R, W

This object is activated if the **Timer/toggle switch changeover for ON/OFF object** parameter is active.

This object is used to switch between a toggle switch and timer switch operation on the same pushbutton

- If the **Timer/toggle switch changeover** object receives the value "1", the toggle-switch mode function is activated.
 - The ON/OFF switching of the output is performed as usual via the **ON/OFF object**.
- If the **Timer/toggle switch changeover** object receives the value "0", the timer mode function is activated.
 - If the ON/OFF object receives the value "1", the output is switched ON.
 After expiry of a configurable time, the output is automatically switched OFF.
 - o If the **ON/OFF object** receives the value "0", the output is switched OFF.

Example: Switching function daytime and time-limited OFF function at night.

During the day, the button is used as a switch. In the evenings, the button is used as a time-limited OFF switch, so that the light will turn off automatically.

For further information, see: ON/OFF timings function

No.	Description	Function of the object	Data type	Flags
2, 22	Output x	Time limited toggle switch	1 Bit – 1.001 DPT_Switch	C, R, W

This object is activated when the **Additional time limited toggle switch function** parameter is active.

This object combines a timer function with a tripping delay function.

- If the object receives the value "1", the output switches to ON for a configurable time period. After that period expires, the output switches to OFF.
- If the object receives the value "0", the output switches to OFF.

Note: The time-limited OFF function is generally used for lighting in cellars, attics and sheds.

For further information, see: ON/OFF timings function



4.2.3 Status indication

No.	Description	Function of the object	Data type	Flags
3, 23	Output x	Status indication ON/OFF	1 Bit – 1.001 DPT_Switch	C, R, T

This object is activated when the **Status indication ON/OFF** parameter is active.

This object allows the status of the output contact to be sent from the device over the KNX bus.

Object value: depends on the **Polarity** parameter.

0 = ON, 1 = OFF

- If the output relay is open, a telegram with logic value "1" is sent on the KNX bus.
- If the output relay is closed, a telegram with logic value "0" is sent on the KNX bus.

0 = Off; 1 = On

- If the output relay is open, a telegram with logic value "0" is sent on the KNX bus.
- If the output relay is closed, a telegram with logic value "1" is sent on the KNX bus.

This object is sent periodically and/or on status change.

For further information, see: Statusindication

4.2.4 Timer

No.	Description	Function of the object	Data type	Flags
4, 24	Output x	Timer	1 Bit - 1.001 DPT_Switch	C, R, W

This object is activated when the **Timer** parameter is active.

This object is used to activate the timer function of the device via the KNX bus.

Object value:

- If a rising edge (0 to 1) arrives at this object, the output switches for a configurable period.
- If a falling edge (1 to 0) arrives at this object, the output remains in its current state.

Note: Depending on the configuration, the timer switching can be interrupted on the timer by a long press of the control button.

Note: Depending on the configuration, the timer duration may be reset by input of a start command during timer operation.

For further information, see: Timer



No.	Description	Function of the object	Data type	Flags
5, 25	Output x	Timer duration	3 Byte – 10.001 DPT_TimeOfDay	C, R, W

This object is activated if the **Timer duration modifiable through object** object parameter is active. This object can be used to configure the timer duration. The timer duration can thus be configured in accordance with a time of day.

		Ву	/te 3	(M:	SB)			Byte 2 Byte				rte 1	(LS	SB)					
Hours					Minutes						(Seco	onds	S					
0	0	0	Н	Н	Н	Н	Н	0	0 M M M M M M			0	0	S	S	S	S	S	S

Fields	Code	Value	Units
Hours	binary	0 to 23 (4 Bit)	Hours
Minutes	binary	0 to 59 (6 Bit)	Minutes
Seconds	binary	0 to 59 (6 Bit)	Seconds

For further information, see: Timer

4.2.5 Scene

No.	Description	Function of the object	Data type	Flags
6, 26	Output x		1 Byte – 17.001 DPT_SceneNumber	C, R, W

This object is activated when the **Scene** parameter is active.

This object is used to recall or save a scene.

Details on the format of the object are given below.

7	6	5	4	3	2	1	0
Learning	Not active			Scene	number		

Bit 7: 0: The scene is called / 1: The scene is saved.

Bit 6: Not active

Bit 5 to Bit 0: Scene numbers from 0 (Scene 1) to 63 (Scene 64).

For further information, see: Scene

4.2.6 Preset

No.	Description	Function of the object	Data type	Flags
7, 27	Output x	Preset 1	1 Bit – 1.022 DPT Scene AB	C, R, W
			DF1_Scene_Ab	

This object is activated if the **Preset** has value **Active with preset 1-level object** or **Active with preset 2-level objects**.

With this object, several outputs can be set to a configurable predefined status.

Object value:

- If the object receives value "0", the values of the parameters for Preset 1 = "0" are used.
- If the object receives value "1", the values of the parameters for Preset 1 = "1" are used.

For further information, see: Preset



No.	Description	Function of the object	Data type	Flags
8, 28	Output x	Preset 2	1 Bit – 1.022 DPT_Scene_AB	C, R, W
	41 4 116 41			

This object is activated if the Preset parameter has value Active with preset 2-level objects. See object No. 7

No.	Description	Function of the object	Data type	Flags
9, 29	Output x	Preset 1 authorization	1 Bit – 1.003 DPT_Enable	C, R, W

This object is activated if the Preset authorization objects parameter is active

This object is used to activate or deactivate the Preset 1 function of the device via the KNX bus.

Object value: this is dependent on the Polarity of Preset 1 authorization object parameter.

0 = Locked-up, 1 = Authorized:

- If the object receives the value "0", Preset 1 is deactivated.
- If the object receives the value "1", Preset 1 is activated.

0 = Authorized, 1 = Locked-up:

- If the object receives the value "1", Preset 0 is activated.
- If the object receives the value "1", Preset 1 is deactivated.

For further information, see: Preset

No.	Description	Function of the object	Data type	Flags				
10, 30	Output x	Preset 2 authorization	1 Bit – 1.003 DPT_Enable	C, R, W				
See object No. 9								

4.2.7 Lock-up

No.	Description	Function of the object	Data type	Flags
11, 31	Output x	Lock-up 1	1 Bit – 1.003 DPT_Enable	C, R, W

This object is activated if the Lock-up has value Active with 1 lock-up object or Active with 2 lock-up objects.

This object is used to control the activation of the lock-up via the KNX bus.

Object value: this is dependent on the **Polarity of lock-up object 1** parameter.

0 = Lock-up activated, 1 = Lock-up deactivated:

- If the object receives value "0", the lock-up is activated.
- If the object receives value "1", the lock-up is deactivated.

0 = Lock-up deactivated, 1 = Lock-up activated:

- If the object receives value "0", the lock-up is deactivated.
- If the object receives value "1", the lock-up is activated.

For further information, see: Lock-up

No.	Description	Function of the object	Data type	Flags
12, 32	Output x	Lock-up 2	1 Bit – 1.003 DPT_Enable	C, R, W
	41 4 1 16 41			

This object is activated if the Lock-up parameter has value Active with 2 lock-up objects.

See object No. 11



No.	Description	Function of the object	Data type	Flags
13, 33	Output x	Status indication lock-up	1 Bit – 1.011 DPT_Switch	C, R, T

This object is activated when the Activation of lock-up status object parameter is active

This object allows the status of the lock-up to be sent from the device over the KNX bus.

Object value: depends on the Polarity parameter.

0 = Lock-up deactivated, 1 = Lock-up activated:

- If the lock-up is deactivated, a telegram with logic value "0" is sent on the KNX bus.
- If the lock-up is activated, a telegram with logic value "1" is sent on the KNX bus.

0 = Lock-up activated, 1 = Lock-up deactivated:

- If the lock-up is activated, a telegram with logic value "0" is sent on the KNX bus.
- If the lock-up is deactivated, a telegram with logic value "1" is sent on the KNX bus.

This object is sent periodically and/or on status change.

For further information, see: Lock-up

4.2.8 Priority

No.	Description	Function of the object	Data type	Flags
14, 34	Output x	Priority	2 Bit – 2.002 DPT_Bool_Control	C, R, W

This object is activated if the **Priority** parameter is active.

The status of the output contact is determined directly by this object.

Details on the format of the object are given below.

Telegram re the priority o object		Status of the outputs
Bit 1	Bit 2	
0	0	End of the priority
0	1	End of the priority
1	0	Priority OFF
1	1	Priority ON

The first bit of this object (Bit 0) determines the status of the output contact, which should be priority controlled. The second bit activates or deactivates the Priority.

For further information, see: Priority



No.	Description	Function of the object	Data type	Flags
15, 35	Output x	Status indication priority	1 Bit – 1.011 DPT_Switch	C, R, T

This object is activated if the Activation of priority status object parameter is active

This object allows the status of the Priority to be sent from the device on the KNX bus.

Object value: depends on the Polarity parameter.

0 = Not forced, 1 = Forced:

- If Priority is deactivated, a telegram is sent with logic value "0".
- If Priority is activated, a telegram is sent with logic value "1".

0 = Forced, 1 = Not forced:

- If Priority is activated, a telegram is sent with logic value "0".
- If Priority is deactivated, a telegram is sent with logic value "1".

This object is sent periodically and/or on status change.

For further information, see: Priority

4.2.9 Hours counter

No.	Description	Function of the object	Data type	Flags
16, 36	Output x	Hours counter value	2 Byte – 7.001 DPT 16 Bit Counter	C, R, T
			DI I_IO_DIL_OCGINIOI	

This object is activated when the **Hours counter** parameter is active.

This object allows the value of the operating hours to be sent from the device on the KNX bus.

The count value is saved during a power cut on the KNX bus. It is submitted after return of power to the bus or after an ETS download.

Object value: 0 to 65535 hours

This object is sent periodically and/or on status change.

For further information, see: Hours counter

No.	Description	Function of the object	Data type	Flags
17, 37	Output x	Reset Hours counter	1 Bit – 1.015 DPT_Reset	C, R, W

This object is activated when the **Hours counter** parameter is active.

This object enables the hours counter value to be reset.

Object value:

- If the object receives the value "0", the counter is not reset.
- If the object receives the value "1", the counter is reset.

For further information, see: Hours counter



No.	Description	Function of the object	Data type	Flags
18, 38	Output x	Hours counter setpoint reached	1 Bit – 1.002 DPT_Bool	C, R, T

This object is activated when the **Hours counter** parameter is active.

This object reports that the hours counter has reached its setpoint.

- incrementing counter: Counter = counter setpoint
- countdown counter: Counter = 0

Object value: If the setpoint is reached, a telegram with logic value "1" is sent on the KNX bus.

The count value is saved during a power cut on the KNX bus. It is submitted after return of power to the bus or after an ETS download.

This object is sent periodically and/or on status change.

For further information, see: Hours counter

No.	Description	Function of the object	Data type	Flags
19, 39	Output x	Operating h. counter setpoint	2 Byte – 7.001 DPT_16_Bit_Counter	C, R, W

This object is activated if the **Counter setpoint value modifiable through object** object parameter is active.

This object is used to initialize the counter setpoint of the hours counter via the KNX bus.

Object value: 0 to 65535 hours

This object is sent periodically and/or on status change.

For further information, see: Hours counter



5 Appendix

5.1 Specifications

753	4 11 01	753	34 21 01
Supply voltage	30 V DC SELV	Supply voltage	30 V DC SELV
Power dissipation	225 mW	Power dissipation	225 mW
Typical consumption on t	the KNX bus 5,3 mA	Typical consumption o	n the KNX bus 5,9 mA
Standby consumption of	on the KNX bus 4,7 mA	Standby consumption	on the KNX bus 4,7 mA
Dimensions	53 x 29 mm	Dimensions	53 x 29 mm
Operating temperature		Operating temperature	$-5^{\circ}C -> + 45^{\circ}C$
Storage temperature	-20 °C $-> +70$ °C	Storage temperature	- 20°C -> + 70°C
Electrical connection		Electrical connection	
	$0,75 \text{ mm}^2 -> 2,5 \text{ mm}^2$		$0.75 \text{ mm}^2 -> 2.5 \text{ mm}^2$
Breaking capacity	µ230V∼ 4A AC1	Breaking capacity	
Maximum switching rat		Maximum switching ra	
	6 switching cycles/minute		6 switching cycles/minute
Installation mode	DIN rail	Installation mode	DIN-rail
Operating altitude	< 2000 m	Operating altitude	< 2000 m
Pollution level	2	Pollution level	2
Tension de choc	4 kV	Surge voltage	4 kV
Indices de protection	IP 20	Protection rating	IP 20
IK	04	IK	04
Catégorie de surtension		Overvoltage category	III
Standard	EN50491-3 ; EN60669-2-1	Standard	EN50491-3 ; EN60669-2-1

Load type			
	230 V∼	Incandescent lamps	600 W
	230 V∼	Halogen lamps	600 W
	12V \sim 24V DC	Conventional transformer	600 W
	12V DC 24V DC	Electronic transformer	600 W
		Fluorescent tubes non compensated	600 W
=======================================	230 V∼	Fluorescent tubes for electronic ballast	6 x 58 W
		Parallel compensated fluorescent tubes	
		Compact fluorescent	6 x 18 W



5.2 Table of logical operations

Input 4	Input 3	Input 2	Input 1	OR	AND
-	-	0	0	0	0
-	-	0	1	1	0
-	-	1	0	1	0
-	-	1	1	1	1
-	0	0	0	0	0
-	0	0	1	1	0
-	0	1	0	1	0
-	0	1	1	1	0
-	1	0	0	1	0
-	1	0	1	1	0
-	1	1	0	1	0
-	1	1	1	1	1
0	0	0	0	0	0
0	0	0	1	1	0
0	0	1	0	1	0
0	0	1	1	1	0
0	1	0	0	1	0
0	1	0	1	1	0
0	1	1	0	1	0
0	1	1	1	1	0
1	0	0	0	1	0
1	0	0	1	1	0
1	0	1	0	1	0
1	0	1	1	1	0
1	1	0	0	1	0
1	1	0	1	1	0
1	1	1	0	1	0
1	1	1	1	1	1

5.3 Characteristics

Product	7534 11 01	7534 21 01
Max. number of group addresses	254	254
Max. number of allocations	255	255
Objects	37	57



Berker GmbH & Co. KG

Klagebach 38 58579 Schalksmühle/Germany Telefon + 49 (0) 2355/905-0 Telefax + 49 (0) 2355/905-111 www.berker.de