KNX Product documentation

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KNX motion detector Cube 240 Order no. 2194 ..





KNX Product documentation

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1. Information about the product

1.1. Detector function

The KNX motion detector Cube consists of three passive infrared (PIR) motion detectors with integrated brightness sensor, integrated IR receiver and integrated red light emitting diode (LED) for indicating a detected movement in test mode.

- Improved detection also of radial movements
- Insensitivity to heat sources in the detection range
- Diffuse and directional light measurement
- Dynamic self-learning delay time

1.2. Functions

- Light outputs 1-2 output switching the lighting for up to 2 light outputs
- Presence output brightness-independent switching in the event of presence
- Absence output brightness-independent switching in the event of absence
- Twilight sensor output brightness-dependent switching regardless of presence
- Brightness output output of the measured brightness value
- IR remote control PIR KNX

Which of these functions is to be used (activated) is set using the "General Settings" parameter window with the Engineering Tool Software (ETS), version ETS 4.0 and higher.

1.3. Light output

The motion detector has two independent light outputs. Each light output can be parametrised with its own switching threshold. Several data point types are available for the output object. Depending on the data point type of the output object, input objects can be used for overriding accordingly. The light output can be set to fully or semi-automatic mode. The delay time can be set permanently or a dynamic delay time can be configured.

It is possible to set whether the light output uses the motion detector logic or the presence detector logic can be . With the motion detector logic, the sensor does not switch off according to the incident daylight. With the presence detector logic, the lighting is switched off when there is sufficient daylight. The presence detector logic is parametrised with an offset. If the measured brightness exceeds the "Twilight stage + twilight stage offset OFF" value, the delay time is not re-triggered when presence is detected. The output switches off when the delay time has expired.

In example one, presence is detected at the time t_1 and the light output switches on. From now on, presence is detected continuously.

At the time t_2 the sudden change in brightness is determined. From t_3 on, the brightness increases further. The measured brightness exceeds the "Twilight stage + twilight stage offset OFF" value from t_4 on.

Only from time t_5 on is the delay time no longer re-triggered. Here the measured brightness exceeds the "Twilight stage + twilight stage offset OFF + offset". At the time t_6 the delay time has passed and the light output is switched off.



Bild 1: Example 1, brightness-based switching off

In example two, the light output 1 switches on first (t_1) . The sudden change in brightness is determined at t_2 . Then the measured brightness falls below the switching threshold of the light output 2 and switches the light output 2 on (t_3) .

The sudden change in brightness is determined in t₄ and added to an offset with the sudden change in brightness of light 1.

From time t_5 on, the measured brightness exceeds the "Light 2 switching threshold + light 2 OFF switching threshold offset + offset" value and the delay time for light 2 is no longer re-triggered. Light 2 switches the output off after the delay time has passed (t_6). The sudden change in brightness is determined at t_7 and added to the offset.

From time t_8 on, the measured brightness exceeds the "Light 1 switching threshold + light 1 OFF switching threshold offset + offset" value and the staircase light time for light output 1 is no longer re-triggered. The light output 1 switches off after the delay time has passed (t_9).



Bild 2: Example 2, brightness-based switching off

1.3.1. Dynamic delay time

If much movement is detected, the delay time is increased (5...20 min), so that the probability of switching off is small if there are still persons present.

However, if there is little movement, a short delay time is selected. If motion is detected the light is only on for a short time.

1.4. Presence output

The presence output operates independently of brightness. A switch-on delay and a delay time can be parametrised. It is possible to send the current status cyclically depending on the status.

1.5. Absence output

Just like the presence output, the absence output operates independently of brightness. A switch-on delay and a delay time can be parametrised. In this case the delay time passes as soon as someone enters the detection range. It is possible to send the current status cyclically depending on the status.

1.6. Twilight sensor

The twilight sensor output operates only according to the measured twilight stage and independent of the presence of persons. If the measured value is below the set threshold, the output is switched. Switching off the output takes place with a delay of 3 minutes.

1.6.1. Function

The twilight sensor continuously measures the ambient brightness. When the light is switched on, it detects the increase in brightness caused by its own light (own light jump). This is recorded 60 seconds after switching on.

Based on this value, the twilight sensor calculates the switch-off threshold - i.e. the brightness value at which the light is deactivated again.

As soon as the measured ambient brightness rises above this switch-off threshold, a delay time of 3 minutes starts, after which the light is automatically switched off.

1.6.2. Manual function test - procedure

1. Initial state:

The twilight sensor is active, the ambient brightness is above the twilight threshold, the light is switched off.

2. Dimming:

Darken the sensor completely by hand. The light should switch on. The dimming must be maintained for at least 60 seconds.

3. Restore the light supply:

After the 60 seconds have elapsed, remove the hand so that sufficient light falls on the sensor again.

4. Switch-off delay:

The sensor detects when the switch-off threshold is exceeded and starts the 3-minute switch-off delay. The light is then deactivated automatically.

1.7. Brightness measurement

The brightness measurement output sends the measured brightness value of the sensor on the bus either after a minimum change of the value or cyclically after a permanently defined interval.

2. Fully & semi-automatic

A parameter can be used to set whether the KNX motion detector Cube should operate in fully automatic or semi-automatic mode. The mode of operation can be set for the light outputs via the "Operating mode" parameter.

If operated in fully automatic mode, the lighting is switched on automatically when persons are present and, depending on the setting, either automatically or not depending on the brightness, and is switched off automatically when persons are absent or if brightness is sufficient.

If operated in "semi-automatic" mode, the lighting must be switched on manually. However, it is automatically switched off either depending on the brightness (depending on the setting) or when there is no longer a person in the detection range of the detector.

3. Day-night switchover

The "Day/night switchover" parameter can be used to define different settings for the switch-on and switch-off values of the lighting, delay times and twilight stage for the light output 1-2 outputs. For each light output there is an input object that can be used to switch to "night mode".

4. Remote control, programming mode and feedback LED

4.1. Remote control

The remote control functions can be activated or deactivated under "General".

4.2. Remote control & programming mode

Via the IR remote control PIR KNX the security light can be set to KNX programming mode. Press the $\mathcal{C} \rightarrow \succeq \rightarrow \psi$ buttons one after the other to do this.

4.3. Programming mode via programming button

Alternatively, a programming button (1) is available for activating programming mode, for programming the physical KNX address using the ETS. The LED (2) lights up red as soon as programming mode is activated.



4.4. Feedback LED

Function	Colour	Туре	Note
Initialisation of the sensor after download or bus voltage recovery (already parametrised)	Red	Flashing	1x per sec.
Remote control command accepted	Red	Rapid flashing	1x
KNX programming mode	Red	On	
Normal mode		Off	

5. Changing the values via the bus

Some of the setting parameters can be changed via the bus. For the light outputs, these are the switching thresholds or setpoints and time settings. The time settings for presence and absence.

6. Performance after a bus voltage failure and recovery or restart and download

In the event of a bus voltage failure, the KNX motion detector Cube fails because the electronics are supplied via the bus voltage. Before a bus voltage failure, all user inputs are saved (brightness values, delay times, switching thresholds, hystereses and disabled objects) so that they can be automatically restored when the bus voltage recovers after the bus voltage failure.

After bus voltage recovery as well as after a complete or partial loading of the product database into the motion detector using ETS (i.e. after a restart), the motion detector undergoes a disable time of between 10 and 40 seconds. At the start of the disable time the lighting is switched on and at the end of the disable time it is switched off for approx. 3 seconds. From then on the motion detector is ready for operation and sends the current telegrams of the outputs.

7. Communication objects

The maximum number of communication objects listed below are available for the KNX motion detector Cube. Which of them are visible and can be linked to group addresses is determined both by the setting in the "General" parameter window and by setting further parameters for desired functions and communication objects.

Object	Object name	Function	DPT	Flag
1	Status	Status	5.001	KLÜ
2	Sensitivity	0 to 100%	5.001	KLSÜ
20	Measured brightness value	Lux	9.004	KLÜ
25	Twilight sensor output	ON/OFF	1.001	KLÜ
26	Twilight stage	21000 lux	9.004	KLSÜ
27	Disable twilight sensor output	ON/OFF	1.001	KSÜ
28	Twilight sensor output disable status	ON/OFF	1.001	KLÜ
35	Presence output presence	ON/OFF	1.001	KLÜ
36	Presence output delay time	1s65535s	7.005	KLSÜ
37	Presence output switch-on delay	0s10s	7.005	KLSÜ
38	Disable presence output	ON/OFF	1.001	KSÜ
39	Presence output disable status	ON/OFF	1.001	KLÜ
45	Absence output absence	ON/OFF	1.001	KLÜ
46	Absence output delay time	1s65535s	7.005	KLSÜ
47	Absence output switch-on delay	1s10s	7.005	KLSÜ
48	Disable absence output	ON/OFF	1.001	KSÜ
49	Absence output disable status	ON/OFF	1.001	KLÜ
55	Switch light output 1	ON/OFF	1.001	KLSÜ
56	Light output 1 switch input	ON/OFF	1.001	KSÜ
57	Light output 1 dimming value	0 to 100%	5.001	KLÜ
58	Dim light output 1 (DPT3)	brighter/darker	3,007	KLÜ
59	Light output 1 dim input	brighter/darker	3,007	KSÜ
60	Light output 1 dimming value input	0 to 100%	5.001	KSÜ
61	Light output 1 scene	Call up scene	18.001	KLÜ
62	Light output 1 auxiliary unit input	ON/OFF	1.001	KSÜ
63	Light output 1 switching threshold	21000 lux	9.004	KLSÜ
64	Light output 1 delay time	10s65535s	7.005	KLSÜ
65	Light output 1 external brightness	Lux	9.004	KSÜ
66	Light output 1 night input	ON/OFF	1.001	KSÜ
67	Disable light output 1	ON/OFF	1.001	KSÜ
68	Light output 1 disable status	ON/OFF	1.001	KLÜ
75	Switch light output 2	ON/OFF	1.001	KLSÜ
76	Light output 2 switch input	ON/OFF	1.001	KSÜ
77	Light output 2 dimming value	0 to 100%	5.001	KLÜ
78	Dim light output 2 (DPT3)	brighter/darker	3.007	KLÜ
79	Light output 2 dim input	brighter/darker	3.007	KSÜ
80	Light output 2 dimming value input	0 to 100%	5.001	KSÜ
81	Light output 2 scene	Call up scene	18.001	KLÜ

Object	Object name	Function	DPT	Flag
82	Light output 2 auxiliary unit input	ON/OFF	1.001	KSÜ
83	Light output 2 switching threshold	21000 lux	9.004	KLSÜ
84	Light output 2 delay time	10s65535s	7.005	KLSÜ
85	Light output 2 external brightness	Lux	9.004	KSÜ
86	Light output 2 night input	ON/OFF	1.001	KSÜ
87	Disable light output 2	ON/OFF	1.001	KSÜ
88	Light output 2 disable status	ON/OFF	1.001	KLÜ

7.1. Description of status communication object

Object	Description
Status	This object is always present.
	This object is used to return whether the selected sensor under the sensor selection parameter matches the attached sensor in the general settings. If the sensor matches, the corresponding sensor type is returned. If the com- bination does not match, an error is returned and the sensor does not work.

7.2. Description of light output X (1..2) communication objects

Object	Description
Light output X	This object is always present when the light output is activated.
Switching	This object is used to switch the light output X.
	The group address linked to this object is used to send the switching com- mand to the actuator via the bus or to request the switching status from the motion detector.
Light output X	This object is always present when the light output is activated.
Switch input	If the "Operating mode" parameter is set to "Fully automatic" and a telegram is received via this object, light output X is disabled because the room user wants to switch the light output on or off permanently. It remains disabled until either a telegram for enabling is received via the "Disable light output X" object or until the motion detector detects that there is no longer a person in the room, enables light output X again and switches it off.
	If the "Operating mode" parameter is set to "Semi-automatic" and a telegram "1" is received via this object, light output X is switched on for the set delay time. Every detected presence in the switched-on state triggers the delay time. If a "0" is received, the light output X switches off without disabling.
Light output X Dimming value	This object is only visible if the "Light output X function" parameter is set to "Dimming value transmitter".
	The group address linked to this object is used to send the dimming value to the actuator via the bus or to request it from the motion detector.
Dim light output X (DPT3)	This object is only visible if the "Light output X function" parameter is set to "Dimming value transmitter".

Object	Description
Light output X Dim input	This object is only visible if the "Light output X function" parameter is set to "Dimming value transmitter".
	If a telegram is received via this object, light output X is disabled because the room user wants the light output to be permanently set to a different dimming value. It remains disabled until either a telegram for enabling is received via the "Disable light output X" object or until the motion detector detects that there is no person in the room any more, enables light output X again and switches it off. When enabled, the light output X sends its set value via the bus.
Light output X Dimming value input	This object is only visible if the "Light output X function" parameter is set to "Dimming value transmitter".
	If a telegram is received via this object, light output X is disabled because the room user wants the light output to be permanently set to a different dimming value. It remains disabled until either a telegram for enabling is received via the "Disable light output X" object or until the motion detector detects that there is no longer a person in the room, enables light output X again and switches it off. When enabled, the light output X sends its set value via the bus.
Light output X Scene	This object is only visible if the "Light output X function" parameter is set to "Light scene auxiliary unit".
	The group address linked to this object is used to send the scene to the actu- ator via the bus or to request it from the detector.
Light output X Auxiliary unit input	This object is only visible if the "Auxiliary unit" parameter is not set to "inac- tive".
	The group address linked to this object is used to receive the presence status from the auxiliary unit via the bus.
Light output X	This object is always present when the light output is activated.
Switching threshold	The group address linked to this object is used to receive or request the switching threshold (in lux) for the light output via the bus.
Light output X Delay time	This object is always present when the light output is activated. The group address linked to this object is used to receive the delay time for light output X via the bus. A received value that is outside the permissible range is rejected. This object can also be used to request the current delay time.
Light output X External brightness	This object is only visible if the "Brightness sensor ON" parameter is set to "External".
	The group address linked to this object is used to receive the brightness value measured by a brightness sensor and compare it with the switching threshold.
Light output X Night input	This object is only visible if the "Day-night switchover" parameter is not set to "Inactive".
	The group address linked to this object is used to receive the switchover between day and night. A "0" activates the parameters for the day. A "1" activates the parameters for the night.
Light output X Disabling	This object is only visible if the "Polarity of disable object" parameter is not set to "No".
	The "Polarity of disable object" parameter is also used to set whether disa- bling is to be carried out by a received value of "1" or a received value of "0". If the output is disabled, the output does not send any telegrams. An excep- tion is manual overriding via the input objects.

Object	Description
Light output X Disable status	This object is only visible if the "Polarity of disable object" parameter is not set to "No".
	Via the group address linked to this object, the disable status is automatically sent via the bus with every change or the disable status can be requested at any time.

7.3. Description of presence output communication objects

Object	Description
Presence output pres-	This object is always present when the presence output is activated.
ence	The group address linked to this object is used to send information to the actuator via the bus on whether the presence of persons was detected (out-put="ON") or not (output="OFF") or the presence status can be requested at any time from the motion detector.
Presence output delay	This object is always present when the presence output is activated.
time	The group address linked to this object is used to receive the delay time for the presence output via the bus. A received value that is outside the permis- sible range is rejected. This object can also be used to request the current delay time.
Presence output	This object is always present when the presence output is activated.
switch-on delay	The group address linked to this object is used to receive the switch-on delay for the presence output via the bus. A received value that is outside the per- missible range is rejected. This object can also be used to request the current delay time.
Disable presence out- put	This object is only visible if the "Polarity of disable object" parameter is not set to "No".
	The "Polarity of disable object" parameter is also used to set whether disabling is to be carried out by a received value of "1" or a received value of "0". If the output is disabled, the output does not send any telegrams.
Presence output disa- ble status	This object is only visible if the "Polarity of disable object" parameter is not set to "No".
	Via the group address linked to this object, the disable status is automatically sent via the bus with every change or the disable status can be requested at any time.

7.4. Description of absence output communication objects

Object	Description
Absence output	This object is always present when the absence output is activated.
absence	The group address linked to this object is used to send information to the actuator via the bus on whether the absence of persons was detected (out-put="ON") or not (output="OFF") or the absence status can be requested at any time from the motion detector.
Absence output delay	This object is always present when the absence output is activated.
time	The group address linked to this object is used to receive the delay time for the absence output via the bus. A received value that is outside the permis- sible range is rejected. This object can also be used to request the current delay time.

Object	Description
Absence output switch-on delay	This object is always present when the absence output is activated. The group address linked to this object is used to receive the switch-on delay for the absence output via the bus. A received value that is outside the per- missible range is rejected. This object can also be used to request the current delay time.
Disable absence output	This object is only visible if the "Polarity of disable object" parameter is not set to "No". The "Polarity of disable object" parameter is also used to set whether disa- bling is to be carried out by a received value of "1" or a received value of "0". If the output is disabled, the output does not send any telegrams.
Absence output disable status	This object is only visible if the "Polarity of disable object" parameter is not set to "No". Via the group address linked to this object, the disable status is automatically sent via the bus with every change or the disable status can be requested at any time.

7.5. Description of twilight switch communication objects

Object	Description
Twilight sensor output	This object is always present when the twilight sensor is activated.
	The group address linked to this object is used to send information to the actuator via the bus on if the measured brightness is below the set twilight stage (output="ON") or not (output="OFF") or the twilight sensor status can be requested at any time by the motion detector.
Twilight stage	This object is always present when the twilight switch is activated.
	The group address linked to this object is used to receive or request the switching threshold (in lux) for the light output via the bus.
Disable twilight sensor output	This object is always present if the twilight switch output is activated and the "Polarity of disable object" parameter is not set to "No".
	The "Polarity of disable object" parameter is also used to set whether disabling is to be carried out by a received value of "1" or a received value of "0".
Twilight sensor output disable status	This object is only visible if the "Polarity of disable object" parameter is not set to "No".
	Via the group address linked to this object, the disable status is automatically sent via the bus with every change or the disable status can be requested at any time.

7.6. Description of brightness measurement communication objects

Object	Description
Measured brightness value	This object is always present when brightness measurement is activated. Via the group address linked to this object, the internal brightness value measured by the detector is sent via the bus or it can be requested from the detector at any time.

8. ETS parameters

8.1. General parameters

General parameters			
Name	Settings	Factory setting	
Number of light outputs	02	1	
This parameter is used to set	how many light outputs shou	Ild be available.	
Presence output	inactive	inactive	
	active		
active: The presence output w	vith the corresponding param	eters is also available.	
inactive: The presence output	is not available.		
Absence output	inactive	inactive	
	active		
active: The absence output w	ith the corresponding parame	eters is also available.	
inactive: The absence output	is not available.		
Twilight sensor	inactive	inactive	
	active		
active: The twilight sensor ou	tput with the corresponding	parameters is also available.	
inactive: The twilight sensor o	output is not available.		
Brightness measurement	inactive	inactive	
	active		
active: The measured brightne	ess value output with the cor	responding parameters is also available.	
inactive: The measured bright	ness value output is not avai	lable.	
Remote control	inactive		
	active		
active: The IR remote control	is activated. Some parameter	rs, such as delay times, sensitivity and	
switch-on thresholds, can be	changed with the IR remote	control.	
inactive: The IR receiver integ	rated in the motion detector	is deactivated.	

8.2. Light output 1..2

8.2.1. General

Light output X = 12			
Name	Settings	Factory setting	
Light output X function	Switching	Switching	
	Dimming value transmitter		
	Light scene auxiliary unit		
This parameter is used to set the object with which the output sends.			
Dimming value at start of detec- tion (0100%)	0%100%	100%	

Light output X = 12			
Name	Settings	Factory setting	
This parameter is used to set which dimming value is sent for the ON state.			
Dimming value at end of detec- tion (0100%)	0%100%	0%	
This parameter is used to set wh	ich dimming value is sent for the	OFF state.	
Send switching objects	ON/OFF telegram ON telegram OFF telegram	ON/OFF telegram	
This parameter is used to set whe are to be sent for the dimming va	ether the ON and OFF switching calue transmitter function.	ommands or only ON or only OFF	
	I	[
Light scene number at start of detection (164)	164	1	
This parameter is used to set wh	ich scene is sent for the ON state		
Light scene number at end of detection (164)	164	2	
This parameter is used to set wh	ich scene is sent for the OFF state	2.	
	-	-	
Send status cyclically	Do not send status cyclically ON/OFF ON OFF	Do not send status cyclically	
This parameter is used to set whe cyclically and at which status.	ether the output should not only b	e sent after each change but also	
Do not send status cyclically: No	status is sent cyclically.		
ON/OFF: The ON and OFF status	is sent cyclically		
ON: Only the ON status is sent c	yclically.		
OFF. Only the OFF status is sent			
Time for cyclic transmission	hh:mm:ss	00.00.30	
Time interval at which evalua tran	minimuss	um time interval is 19:12:15	
	Istilission takes place. The maxim		
Operating mode	Fully automatic (Auto ON, Auto OFF) Semi-automatic (Manual ON,	Fully automatic (Auto ON, Auto OFF)	
	Auto OFF)		
This parameter is used to set wh (fully automatic) or whether it sh	ether the light output should be s ould only be switched off automa	witched on and off automatically tically (semi-automatic).	
Dynamic delay time	Active Inactive	Inactive	

Light output X = 12			
Name	Settings	Factory setting	
This parameter is used to set whether the light output delay time is to be selected via a parameter (inactive) or whether the dynamic delay time is to automatically and continuously adapt the delay time between 5 and 20 minutes to the use of the room (active).			
Light output delay time	hh:mm:ss	00:05:00	
The delay time is started if no presence is detected. It is used to prevent the output from being switched off immediately when the room is briefly left and being switched on again when the room is returned. The delay time can be set from 00:00:10 to 18:12:15.			
	1	1	
Auxiliary unit	Inactive	ON	
	ON telegram		
	ON/OFF telegram		
This parameter defines whether t telegram.	the auxiliary unit input expects an	ON telegram or an ON and OFF	
8.2.2. Brightness			
Light output X = 12			

Name	Settings	Factory setting	
Day mode	Yes	NO	
	No		
Setting whether the light output	should switch independently of th	ne brightness.	
Brightness sensor ON	Internal	Internal	
	External		
This parameter defines the bright threshold.	tness measurement with which th	e sensor compares its switching	
External brightness sensor initial value	2 lux 1000 lux	200 lux	
This parameter defines the value with which the sensor operates until the first value is received via the KNX bus.			
External brightness sensor weighting	1 % 100 %	100 %	
This value defines to what extent the external value is weighted.			
Twilight stage ON	2 lux1000 lux	50 lux	
This parameter is used to set the brightness and detected presence used to switch on the light output.			
Switch off depending on bright-	Yes	Yes	
ness	No		

Light output X = 12			
Name	Settings	Factory setting	
Yes: The light output is switched off when there is sufficient brightness despite presence detection.			
No: The light output remains switched on until the delay time has passed. The delay time is re-trig- gered when presence is detected.			
Twilight stage offset OFF	10 lux1000 lux	100 lux	
This parameter is used to set	the offset above which the	ight output is switched off.	

8.2.3. Basic illumination (only visible if "Function light output X = Dimmer")

Light output X = 12			
Name	Setting	Factory setting	
Basic illumination	Inactiv	Inactiv	
	Activ		
Setting whether the basic illumin	ation should be activated.		
Basic illumination ON	For limited time	For limited time	
	Depending on light level		
	Dim		
	Always		
If required, basic illumination car time or always when the brightne For limited time: At the end of the	n be activated either for a limited ess falls below a threshold value. e run-on time, the output switches	time after the end of the run-on the lighting to basic illumination	
if the detector has been paramet the "Twilight stage ON" + "Twilig	erised in day mode or the current ht stage offset OFF".	ly measured brightness is below	
Depennding on light level: If no p but the basic illumination is activ brightness threshold value at this until the measured brightness sig ness measurement setting from t	presence is detected by the detect vated if the brightness measured b s time. It remains switched on un- gnificantly exceeds the basic brigh the "Brightness sensor ON" paran	for, the output is not switched off by the sensor is below the basic til either presence is detected or otness threshold value. The bright- neter is used.	
Dim: The sensor automatically di	ms the lighting down gradually u	ntil it switches off.	
Always: The basic illumination is	always active when the output is	not switched on.	
Basic illumination dimming level	1100 %	10 %	
This parameter is used to set the dimming value to which the basic illumination is switched on.			
Basic illumination light-level threshold	21000 lux	50 lux	
This parameter is used to set the above which it is deactivated aga	threshold value below which the l ain.	pasic illumination is activated and	
This takes place regardless of whether the second	nether there are people in the dete	ection area or not.	

Light output X = 12			
Name	Setting	Factory setting	
Basic illumination ON period	hh:mm:ss	00:15:00	
After the switch-on time set here has elapsed, the basic illumination is switched off.			
The switch-on time can be set from 00:00:10 to 18:12:15.			

8.2.4. Day-night parameters

Light output X = 12			
Name	Settings	Factory setting	
Day-night switchover	Inactive	Inactive	
	Active		
If day/night switchover is activate	ed, the parameter setting can be s	switched over via an input object.	
Dimming value at start of detec- tion (0100%)	0%100%	100%	
(only for "General" parameter: light output X function, dimming value)			
This parameter is used to set wh	ich dimming value is sent for the	ON state.	
Dimming value at end of detec- tion (0100%)	0%100%	0%	
(only for "General" parameter: light output X function, dimming value)			
This parameter is used to set whi	ich dimming value is sent for the (OFF state.	
Light scene number at start of detection (164%)	164	1	
(only for "General" parameter: light output X function, light scene auxiliary unit)			
This parameter is used to set wh	ich scene is sent for the ON state.		
Light scene number at end of detection (164%)	164	2	
(only for "General" parameter:			
light output X function, light			
scene auxiliary unit)			
This parameter is used to set which scene is sent for the OFF state.			
Day mode	Yes	NO	
Sotting whather the light output	no nould awitch independently of th		
	should switch independently of tr		
Twilight stage ON	2 lux 1000 lux	50 102	
	2 1ux 1000 1ux	50 lux	

Light output X = 12			
Name	Settings	Factory setting	
This parameter is used to set the	brightness and detected presence	ce used to switch on the light out-	
put.			
Switch off depending on bright-	Yes	No	
ness	No		
This parameter is used to set whether the light output should switch off depending on brightness despite presence.			
Twilight stage offset OFF	10 lux1000 lux	100 lux	
This parameter is used to set the offset above which the light output is switched off.			
Light output delay time	hh:mm:ss	00:05:00	
The delay time is started if no pro switched off immediately when t room is returned to.	esence is detected. It is used to p the room is only briefly left and be	prevent the output from being eing switched on again when the	
The delay time can be set from 0	0:00:10 to 18:12:15.		

8.2.5. Disabling

Light output X = 12			
Name	Settings	Factory setting	
Polarity of the disable object	No	No	
	0 = enable / 1 = disable		
	0 = disable / 1 = enable		

This parameter is used to set whether the output can be disabled and with which telegram the output is disabled and re-enabled.

No: The output cannot be disabled.

0 = enable / 1 = disable: The output is disabled by a telegram with the value "1" for the disable object and enabled by a telegram "0".

0 = disable / 1 = enable: The output is disabled by a telegram with the value "0" for the disable object and enabled by a telegram "1".

Telegram at start of disabling	None	None	
	ON telegram		
	OFF telegram		
This parameter is used to set whether the output should be switched on or off before disabling or whether the output should remain unchanged.			
None: No further action is taken before disabling.			
ON telegram: The output is swite	hed on before disabling.		
OFF telegram: The output is swit	ched off before disabling.		
Telegram at the end of disabling	Enable and do not send a tele-	Enable and do not send a tele-	
	gram	gram	
	Enable and send ON telegram		
	Enable and send OFF telegram		

GIRA		ETS parameter
Light output X = 12		
Name	Settings	Factory setting
This parameter is used to se the output is switched on o	et whether the output resumes its act r off first.	ivity after being enabled or whether
Enable and do not send a to according to the configurat	elegram: The output is in normal moc ion.	le immediately and sets the output
Enable and send ON telegra 5 seconds, normal mode is	am: After enabling, the output is swit reactivated.	ched on. After a waiting period of
Enable and send OFF telegi 5 seconds, normal mode is	am: After enabling, the output is swi reactivated.	tched off. After a waiting period of
8.3. Presence output		
Presence output		
Name	Settings	Factory setting
Switch-on delay	0 s10 s	1 sec.
A movement must be detec switch ON.	ted over the entire time of the switch-	on delay. Only then does the output
Delay time	hh:mm:ss	00:00:10
The delay time is started if switched off immediately w is returned.	no presence is detected. It is used to when the room is briefly left and being	prevent the output from being switched on again when the room
The delay time can be set f	rom 00:00:00 to 18:12:15.	
Send status cyclically	Do not send status cyclically	Do not send status cyclically
	ON/OFF	
	ON	
	OFF	
This parameter is used to se	et whether the output should not only	be sent after each change but als
cyclically and at which stat	US.	

Do not send status cyclically: No status is sent cyclically.

ON/OFF: The ON and OFF status is sent cyclically

ON: Only the ON status is sent cyclically.

OFF: Only the OFF status is sent cyclically.

Time for cyclic transmission	hh:mm:ss	00:00:30
Time interval at which cyclic transmission takes place.		

Polarity of the disable object	No	No
	0 = enable / 1 = disable	
	0 = disable / 1 = enable	

This parameter is used to set whether the output can be disabled and with which telegram the output is disabled and re-enabled.

No: The output cannot be disabled.

0 = enable / 1 = disable: The output is disabled by a telegram with the value "1" for the disable object and enabled by a telegram "0".

0 = disable / 1 = enable: The output is disabled by a telegram with the value "0" for the disable object and enabled by a telegram "1".

Presence output		
Name	Settings	Factory setting
Telegram at start of disabling	None	None
	ON telegram	
	OFF telegram	
This parameter is used to set wh	ether the output should be switch	ned on or off before disabling or
whether the output should remai	n unchanged.	
None: No further action is taken	before disabling.	
ON telegram: The output is switc	hed on before disabling.	
OFF telegram: The output is swit	ched off before disabling.	
Telegram at the end of disabling	Enable and do not send a tele-	Enable and do not send a tele-
	gram	gram
	Enable and send ON telegram	
	Enable and send OFF telegram	
This parameter is used to set whe	ether the output resumes its activi	ty after being enabled or whether
the output is switched on or off f	first.	
Enable and do not send a telegra	m: The output is in normal mode	immediately and sets the output
according to the configuration.		
Enable and send ON telegram: A	fter enabling, the output is switch ivated	ned on. After a waiting period of
Enable and send OFE telegram: /	After enabling, the output is switc	had off After a waiting period of

Enable and send OFF telegram: After enabling, the output is switched off. After a waiting period of 5 seconds, normal mode is reactivated.

8.4. Absence output

Absence output			
Name	Settings	Factory setting	
Switch-on delay	010 sec.	1 sec.	
No movement may be detected over the entire time of the switch-on delay. Only then does the output switch ON.			
Delay time	hh:mm:ss	00:00:10	
The delay time is started if no absence is detected. It is used to prevent the output from being switched off immediately when the room is only briefly left and being switched on again when the room is returned to.			
The staircase light time can be se	et from 00:00:10 to 18:12:15.		
Send status cyclically	Do not send status cyclically ON/OFF ON OFF	Do not send status cyclically	
This parameter is used to set whether the output should not only be sent after each change but also cyclically and at which status.			
Do not send status cyclically: No status is sent cyclically.			
ON/OFF: The ON and OFF status is sent cyclically			
ON: Only the ON status is sent cyclically.			
OFF: Only the OFF status is sent cyclically.			

Absence output		
Name	Settings	Factory setting
Time for cyclic transmission	hh:mm:ss	00:00:30
Time interval at which cyclic tran	ismission takes place.	
Polarity of the disable object	No	No
	0 = enable / 1 = disable	
	0 = disable / 1 = enable	
This parameter is used to set whe is disabled and re-enabled.	ther the output can be disabled an	d with which telegram the output
No: The output cannot be disable	ed.	
0 = enable / 1 = disable: The outp and enabled by a telegram "0".	ut is disabled by a telegram with t	he value "1" for the disable object
0 = disable / 1 = enable: The outp and enabled by a telegram "1".	ut is disabled by a telegram with t	he value "0" for the disable object
	1	1
Telegram at start of disabling	None	None
	ON telegram	
	OFF telegram	
This parameter is used to set whether the output should remain	ether the output should be switch	ied on or off before disabling or
None: No further action is taken	hefore disabling	
ON telegram. The output is switch	thed on before disabling	
OFF telegram: The output is swit	ched off before disabling.	
Telegram at the end of disabling	Enable and do not send a tele-	Enable and do not send a tele-
	gram	gram
	Enable and send ON telegram	
	Enable and send OFF telegram	
This parameter is used to set whether the output resumes its activity after being enabled or whether		
Enable and do not send a telegra	m: The output is in normal mode	immediately and sets the output
according to the configuration.		
Enable and send ON telegram: After enabling, the output is switched on. After a waiting period of 5 seconds, normal mode is reactivated.		
Enable and send OFF telegram: After enabling, the output is switched off. After a waiting period of		
5 seconds, normal mode is react	ivated.	
8.5. Twilight sensor		
Twilight sensor		
Name	Settings	Factory setting

Name	Settings	Factory setting
Twilight stage	2 1000 lux	10 lux
This parameter is used to set the brightness above which the twilight sensor output switches on.		

Twilight sensor			
Name	Settings	Factory setting	
Polarity of the disable object	No	No	
	0 = enable / 1 = disable		
	0 = disable / 1 = enable		
This parameter is used to set whe is disabled and re-enabled.	ther the output can be disabled ar	nd with which telegram the output	
No: The output cannot be disable	ed.		
0 = enable / 1 = disable: The outp	ut is disabled by a telegram with t	he value "1" for the disable object	
and enabled by a telegram "0".			
0 = disable / 1 = enable: The outp and enabled by a telegram "1".	ut is disabled by a telegram with t	he value "0" for the disable object	
Telegram at start of disabling	None	None	
	ON telegram		
	OFF telegram		
This parameter is used to set wh	ether the output should be switch	ned on or off before disabling or	
whether the output should remai	n unchanged.		
None: No further action is taken	before disabling.		
ON telegram: The output is swite	hed on before disabling.		
OFF telegram: The output is swit	ched off before disabling.		
Telegram at the end of disabling	Enable and do not send a tele-	Enable and do not send a tele-	
	Enable and send ON telegram	gran	
	Enable and send OFF telegram		
This parameter is used to set whe	ther the output resumes its activi	ty after being enabled or whether	
the output is switched on or off first.			
Enable and do not send a telegra according to the configuration.	m: The output is in normal mode	immediately and sets the output	
Enable and send ON telegram: After enabling, the output is switched on. After a waiting period of			
5 seconds, normal mode is reactivated.			
Enable and send OFF telegram: After enabling, the output is switched off. After a waiting period of			
8.6. Brightness output			
Brightness output	-	_	
Name	Settings	Factory setting	
Send measured value	Change	Change	
	Cyclically		
This parameter is used to set whe occurs or cyclically.	ether the measured values are ser	nt on the bus only when a change	

Min. change in brightness 1...255 lux

30 lux

This parameter is used to set the minimum value by which the last measured value sent must have changed in order for the measured value to be sent again.

Brightness output		
Name	Settings	Factory setting
Cyclic transmission of the meas- ured value	hh:mm:ss	00:00:30
Time interval at which all measured brightness values are sent cyclically.		