

ESYLUX

www.esylux.com

GB • OPERATING INSTRUCTIONS

Congratulations on your purchase of this high-quality ESYLUX product. To ensure proper operation, please read these user instructions carefully and keep them for future reference.

1 • SAFETY INSTRUCTIONS



WARNING! Work on the 230 V power system must be carried out by authorised personnel only, with due regard to the applicable installation regulations. Disconnect the bus power supply before installing the product. Please observe the installation regulations laid out in the safety measure for separated extra-low voltage (SELV).

Use this product only as intended (as described in the user instructions). Making any changes or modifications to the product, or painting it, will result in loss of warranty. Check the device for damage as soon as you unpack it. If there is any damage, you must not install the device under any circumstances. If you suspect that safe operation of the device cannot be guaranteed, you should turn the device off immediately and make sure that it cannot be operated unintentionally.



NOTE: This device must not be disposed of with unsorted municipal waste. Owners of old devices are legally obliged to correctly dispose of this device. Contact your local town council for more information.

2 • DESCRIPTION

The ESYLUX RCi KNX series is a motion detector with a 230° field of detection and 360° anti-creep protection. Follow the installation instructions when installing the device. ESYLUX motion detectors are passive infrared detectors, which react to moving heat sources (e.g. people or vehicles). If the motion detector senses a change in thermal radiation inside its field of detection, depending on the set light value, it will activate the connected system (e.g. lighting) for a preset length of time. The values can be individually modified via ETS.

For additional features, please refer to "Description of objects".

The RCi KNX series is only intended for use in a KNX (EIB), TP (twisted pair) bus system in conjunction with other KNX components.

If the ESYLUX RCi KNX series detects that persons are present in its field of detection, it transmits regulating or controlling telegrams for light outputs, depending on ambient brightness, as well as for HVAC (heating, ventilation and air conditioning) objects, depending on the presence of people.

- Blended light measurement is suitable for FL, PL, halogen and incandescent lamps.

Certified KNX/EIB training centres provide specialist training on how to plan, install, activate, document and use the ETS (Engineering Tool Software) that is required for parameter setting.

3 • INSTALLATION / ASSEMBLY / CONNECTION

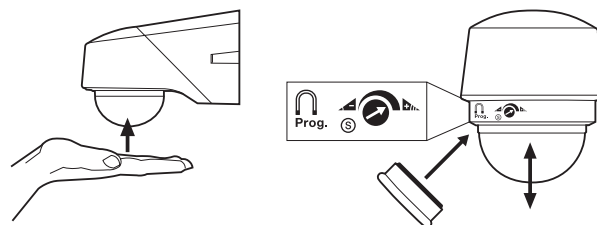


See separate installation instructions.

4 • START-UP

All parameter settings are carried out via the ETS (Engineering Tool Software). The magnet provided can be used to activate the programming status for the physical address on the RCi KNX series. This is indicated by the **blue LED**.

The product database and application description are available to download at www.esylux.com.



5 • SWITCH-ON BEHAVIOUR / LED DISPLAY

• Connect the bus supply

This initiates a warm-up phase that lasts approx. 60 seconds.

The **red LED** and **blue LED** will slowly flash alternately ($f = 1 \text{ Hz}$).

• LED display after warm-up

Each time motion is detected, this is indicated by 2 x flashes of the **red LED**.

- Remote control entries are acknowledged by 2 x flashes from the **blue LED** in alternation with 2 x flashes from the **red LED**.



NOTE: The red LED will only light up when motion is detected if it has been enabled by the ETS (Engineering Tool Software).

6 • TEST MODE

Parameters can be set via the ETS (Engineering Tool Software), and/or by using the Mobil-RCi remote control or X-REMOTE.

Test mode switches to the RUN status after "storing", or 10 minutes after activating the test mode.

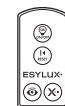
7 • REMOTE CONTROL

The optional remote control Mobil-RCi (EM10016004), Mobil-RCi-M (EM10016011) or X-REMOTE (EP10426995) can be used to control the lighting.

The following function settings can be temporarily set by remote control:

- Button : Lighting is switched ON or OFF continuously for 12 hours
- Button and : Restore preset ETS parameters

For further information, please refer to the operating instructions for the Mobil-RCi, Mobil-RCi-M or X-REMOTE remote controls.



Mobil-RCi

Mobil-RCi-M

8 • ESYLUX MANUFACTURER'S GUARANTEE

ESYLUX products are tested in accordance with applicable regulations and manufactured with the utmost care. The guarantor, ESYLUX Deutschland GmbH, Postfach 1840, D-22908 Ahrensburg (for Germany) or the relevant ESYLUX distributor in your country (visit www.esylux.com for a complete overview) provides a guarantee against manufacturing/material defects in ESYLUX devices for a period of three years from the date of manufacture.

This guarantee is independent of your legal rights with respect to the seller of the device.

The guarantee does not apply to natural wear and tear, changes/interference caused by environmental factors or damage in transit, nor to damage caused as a result of failure to follow the user or maintenance instructions and/or as a result of improper installation. Any illuminants or batteries supplied with the device are not covered by the guarantee.

The guarantee can only be honoured if the device is sent back to the guarantor unaltered, packaged, with sufficient postage and with the invoice/receipt, along with a brief description of the fault, as soon as a defect is identified.

If the guarantee claim proves justified, the guarantor will, within a reasonable period, either repair the device or replace it. The guarantee does not cover further claims; in particular, the guarantor will not be liable for damages resulting from the device's defectiveness. If the claim is unfounded

(e.g. because the guarantee has expired or the fault is not covered by the guarantee), then the guarantor may attempt to repair the device for you for a fee, keeping costs to a minimum.

LIGHT CHANNEL OBJECTS

Object 0: "Input: Lock light channel" (length = 1-bit)

The switching/dimming outputs for the light channel are locked with an ON telegram and unlocked with an OFF telegram. Parameters can be set to determine the status of the light channel after locking and unlocking.

Object 1: "Input: Light channel manual ON/OFF" (length = 1-bit)**Note: essential when in half automatic mode!**

When persons are present, manual operation is maintained until the switch off time has elapsed if "while presence" is set in the parameters. Light measurement is not active if "With disabled light processing during off-period" has been selected. After this, the detector switches to normal operating mode. Manual operation has no impact on motion detection.

Object 2: "Input: Light channel manual dimming" (length = 4 bits)**Function: Constant light control**

Input for dim up/dim down KNX touch sensors. Writing on this object manually overrides the light channel and the commands are transmitted to the dimming actuator via object 6.

When persons are present, manual operation is maintained until the switch off time has elapsed if "while presence" is set in the parameters. Light measurement is not active if "With disabled light processing during off-period" has been selected. After this, the detector switches to normal operating mode. Manual operation has no impact on motion detection.

Object 3: "Input: Light channel manual dim value" (length = 1 byte)**Function: Constant light control**

Input to preset dim values. Writing on this object manually overrides the light channel and the values are transmitted to the dimming actuator via objects 7 and 8.

When persons are present, manual operation is maintained until the switch off time has elapsed if "while presence" is set in the parameters. Light measurement is not active if "With disabled light processing during off-period" has been selected. After this, the detector switches to normal operating mode. Manual operation has no impact on motion detection.

Object 4: "Output: Light channel 1 ON/OFF" (length = 1-bit)**Function: Switching****Object 4: "Output: Light channel ON/OFF" (length = 1-bit)****Function: Constant light control**

If artificial lighting is required (threshold 1/set value via parameter) and persons are present, the output sends an ON telegram. If natural light is sufficient and/or no persons are present, an OFF telegram is sent once the switch off time has elapsed.

Object 5: "Output: Light channel 2 ON/OFF" (length = 1-bit)**Function: Switching**

If artificial lighting is required (difference between threshold 2 and threshold 1 via parameter) and persons are present, the output sends an ON telegram. If natural light is sufficient and/or no persons are present, an OFF telegram is sent once the switch off time has elapsed.

Object 6: "Output: Light channel dimming" (length = 4 bits)**Function: Constant light control**

Telegrams can be transmitted to the dimming actuator via this object by manually pressing and holding down a touch sensor (object 2).

Object 7: "Output: Light channel dim value 1" (length = 1 byte)**Function: Constant light control**

If artificial lighting is required and persons are present, the output sends an ON/value telegram (1 byte).

If natural light is sufficient (controller to minimum) and/or no persons are present, the lighting is set to 0% or the device switches to orientation lighting once the switch off time has elapsed.

Object 8 "Output: Light channel dim value 2" (length = 1 byte)**Function: Constant light control**

If artificial lighting is required and persons are present, the output sends an ON/value telegram (1 byte).

If natural light is sufficient (controller to minimum) and/or no persons are present, either 0% is sent or the device switches to orientation lighting once the switch off time has elapsed.

Option to offset dim value 2 and dim value 1 via parameter

Object 9: "Input: Light channel 1 actuator acknowledgement" (length = 1 bit)**Function: Switching****Object 9: "Input: Light channel actuator acknowledgement" (length = 1 bit)****Function: Constant light control**

This object can be used to evaluate the status object of an actuator. In the event that the actuator is not only controlled by the detector, light channel 1 switches to standby mode if the status of the channel differs from that of the actuator.

Object 10: "Input: Light channel 2 actuator acknowledgement" (length = 1 bit)**Function: Switching**

This object can be used to evaluate the status object of an actuator. In the event that the actuator is not only controlled by the detector, light channel 2 switches to standby mode if the status of the channel differs from that of the actuator.

Object 11: "Input: Switch orientation light" (length = 1 bit)**Function: Constant light control**

An OFF telegram is used to switch off the orientation light function, while an ON telegram switches it on.

Object 12: "Input: Select orientation light" (length = 1 bit)**Function: Constant light control**

An ON telegram changes the setting from orientation light value 1 to orientation light value 2, while an OFF telegram switches it from value 2 to value 1.

LIGHT VALUE OBJECTS

Object 13: "Input: Lock sending light value" (length = 1 bit)

An ON telegram locks sending, while an OFF telegram enables sending of the internal light value.

Object 14: "Input: External light value" (length = 2 bytes)

This object can be used to mix an external light value with the internal one for the actual value of the constant light control.

Object 15: "Output: Internal light value" (length = 2 bytes)

Internal light value output

HVAC CHANNEL OBJECTS

Object 16: "Input: Lock presence (HVAC)" (length = 1 bit)

The switching output for the HVAC channel is locked with an ON telegram and unlocked with an OFF telegram.
Parameters can be set to determine the status of the channel after locking and unlocking.

Object 17: "Output: Presence (HVAC) ON/OFF" (length = 1 bit)

If persons are detected, depending on the input delay, an ON telegram is sent.
If no persons are detected, depending on the switch off time, an OFF telegram is sent.

MOTION OBJECTS

Object 18: "Input: Slave/master motion" (length = 1 bit)

Trigger input for parallel connection of Master/Master or input of Slave.

Object 19: "Input: Lock motion detection" (length = 1 bit)

An ON telegram locks the internal motion detection function, while an "OFF" telegram unlocks it again.

Object 20: "Output: Motion detection" (length = 1 bit)

Internal motion output.

Object 20: "Output: Left sensor motion detection" (length = 1 bit)

Function: Separate motion detection output

This object indicates the movement direction detected by the left sensor.

Object 21: "Output: Right sensor motion detection" (length = 1 bit)

Function: Separate motion detection output

This object indicates the movement direction detected by the right sensor.

Object 23: "Output: Anti-creep protection motion detection" (length = 1 bit)

Function: Separate motion detection output

Anti-creep protection motion output.

TWILIGHT SWITCH OBJECTS

Object 24: "Input: Twilight switch manual ON/OFF" (length = 1 bit)

Device can be manually overridden until the off-period has elapsed.

Object 25: "Output: Twilight switch ON/OFF" (length = 1 bit)

If ambient brightness falls below the threshold value, the twilight switch sends an ON telegram once the time delay has elapsed.
If ambient brightness exceeds the threshold value, the twilight switch sends an OFF telegram once the time delay has elapsed.

PRESENCE SIMULATION OBJECT

Object 26: "Input: Presence simulation ON/OFF" (length = 1 bit)

Presence simulation is switched on or off.

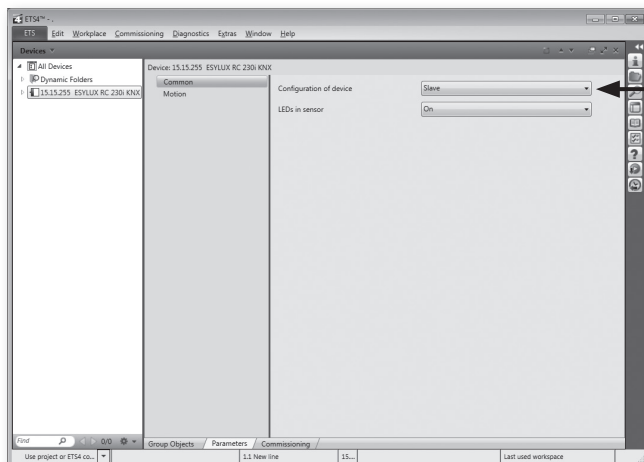
OBJECTS FOR SWITCHING FUNCTION

Object	Name	Length	C	R	W	T	U	Data Type	Priority
#2 0	Input: Lock light channel	1 bit	C	-	W	-	-	Low	
#2 1	Input: Light channel manual ON/OFF	1 bit	C	-	W	-	-	Low	
#2 4	Output: Light channel 1 ON/OFF	1 bit	C	R	-	T	-	Low	
#2 5	Output: Light channel 2 ON/OFF	1 bit	C	R	-	T	-	Low	
#2 9	Input: Light channel 1 actuator feedback	1 bit	C	-	W	-	-	Low	
#2 10	Input: Light channel 2 actuator feedback	1 bit	C	-	W	-	-	Low	
#2 13	Input: Lock sending light value	1 bit	C	-	W	-	-	Low	
#2 14	Input: External light value	2 Byte	C	-	W	-	-	Low	
#2 15	Output: Internal light value	2 Byte	C	R	-	T	-	Low	
#2 16	Input: Lock presence (HVAC)	1 bit	C	-	W	-	-	Low	
#2 17	Output: Presence (HVAC) ON/OFF	1 bit	C	R	-	T	-	Low	
#2 18	Input: Slave/master motion	1 bit	C	-	W	-	-	Low	
#2 19	Input: Lock motion detection	1 bit	C	-	W	-	-	Low	
#2 20	Output: Left sensor motion detection	1 bit	C	R	-	T	-	Low	
#2 21	Output: Right sensor motion detection	1 bit	C	R	-	T	-	Low	
#2 23	Output: Anti-creep protection motion detection	1 bit	C	R	-	T	-	Low	
#2 24	Input: Twilight switch manual ON/OFF	1 bit	C	-	W	-	-	Low	
#2 25	Output: Twilight switch ON/OFF	1 bit	C	R	-	T	-	Low	
#2 26	Input: Presence simulation ON/OFF	1 bit	C	-	W	-	-	Low	

OBJECTS FOR CONTROLLING/REGULATING FUNCTION

Object	Name	Length	C	R	W	T	U	Data Type	Priority
#2 0	Input: Lock light channel	1 bit	C	-	W	-	-	Low	
#2 1	Input: Light channel manual ON/OFF	1 bit	C	-	W	-	-	Low	
#2 2	Input: Light channel manual dimming	4 bit	C	-	W	-	-	Low	
#2 3	Input: Light channel manual dim value	1 Byte	C	-	W	-	-	Low	
#2 4	Output: Light channel ON/OFF	1 bit	C	R	-	T	-	Low	
#2 6	Output: Light channel dimming	4 bit	C	R	-	T	-	Low	
#2 7	Output: Light channel dim value 1	1 Byte	C	R	-	T	-	Low	
#2 8	Output: Light channel dim value 2	1 Byte	C	R	-	T	-	Low	
#2 9	Input: Light channel actuator feedback	1 bit	C	-	W	-	-	Low	
#2 11	Input: Select orientation light	1 bit	C	-	W	-	-	Low	
#2 12	Input: Orientation light ON/OFF	1 bit	C	-	W	-	-	Low	
#2 13	Input: Lock sending light value	1 bit	C	-	W	-	-	Low	
#2 14	Input: External light value	2 Byte	C	-	W	-	-	Low	
#2 15	Output: Internal light value	2 Byte	C	R	-	T	-	Low	
#2 16	Input: Lock presence (HVAC)	1 bit	C	-	W	-	-	Low	
#2 17	Output: Presence (HVAC) ON/OFF	1 bit	C	R	-	T	-	Low	
#2 18	Input: Slave/master motion	1 bit	C	-	W	-	-	Low	
#2 19	Input: Lock motion detection	1 bit	C	-	W	-	-	Low	
#2 20	Output: Left sensor motion detection	1 bit	C	R	-	T	-	Low	
#2 21	Output: Right sensor motion detection	1 bit	C	R	-	T	-	Low	
#2 23	Output: Anti-creep protection motion detection	1 bit	C	R	-	T	-	Low	
#2 24	Input: Twilight switch manual ON/OFF	1 bit	C	-	W	-	-	Low	
#2 25	Output: Twilight switch ON/OFF	1 bit	C	R	-	T	-	Low	
#2 26	Input: Presence simulation ON/OFF	1 bit	C	-	W	-	-	Low	

DESCRIPTION OF APPLICATION



1. MASTER/SLAVE

The Master detects presence and evaluates it according to set parameters.

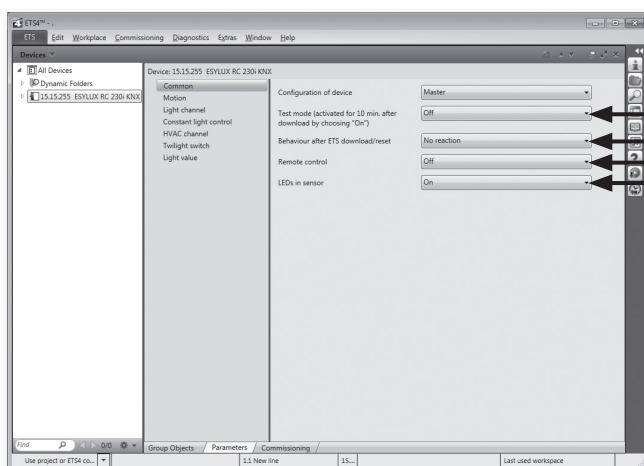
"Lighting ON/OFF" or "lighting light value higher/lower"

The Slave is used exclusively to extend the field of detection. Presence is transmitted to the Master (object 18) for evaluation according to the set parameters.

• Master/Master selection

Two Masters can work in parallel to extend the field of detection. Each Master evaluates the presence (objects 18 and 20, and if applicable 21) according to its parameters set via the ETS (Engineering Tool Software) and regulates/controls the lighting appropriately.

Default setting: Master



2. TEST MODE

(Only for Master device configuration)

When test mode "ON" → light measurement disabled.

When test mode is enabled, the connection with the lighting system is checked.

Depending on the parameter settings, if the motion sensor detects movement, the lighting will be "ON" for 5 seconds, followed by a dead time of 1 second "OFF". **The red LED** indicates that movement has been detected. Test ON automatically switches to test OFF after 10 minutes, or when the parameters are stored.



Note: During test → Slave input enabled.

3. BEHAVIOUR AFTER ETS DOWNLOAD/RESET

Choose from: "No reaction", "ON", "OFF"

During the process, the following telegrams are sent:

Switching operating mode:

- Object 4: "Output: Light channel 1 ON/OFF"
- Object 5: "Output: Light channel 2 ON/OFF"

"Controlling" or "regulating" operating mode:

- Object 4: "Output: Light channel ON/OFF"
- Object 7: "Output: Light channel dim value 1"
- Object 8: "Output: Light channel dim value 2"

- Also, object 17: "Output: Presence (HVAC) ON/OFF"

4. REMOTE CONTROL

This is where you can disable operation via the Mobil-RCi, Mobil-RCi-M or X-REMOTE (iPhone).



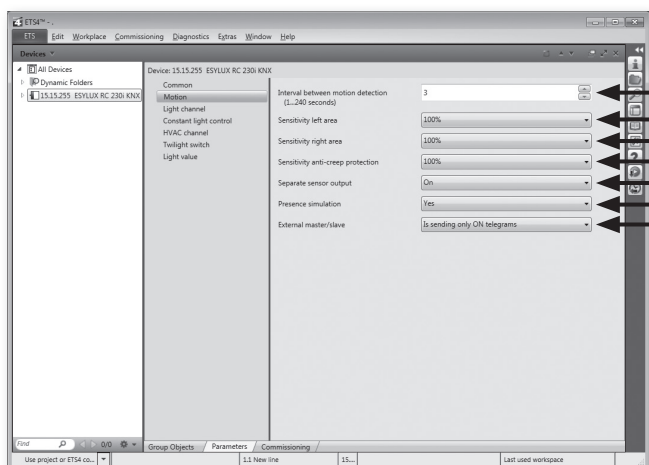
Note: Remote control is disabled in test mode.

5. LEDS IN SENSOR

Options: LED "ON" or "OFF"

If the LED is not switched off, the **red LED** flashes when motion is detected.

DESCRIPTION OF APPLICATION



6. MOTION DETECTION

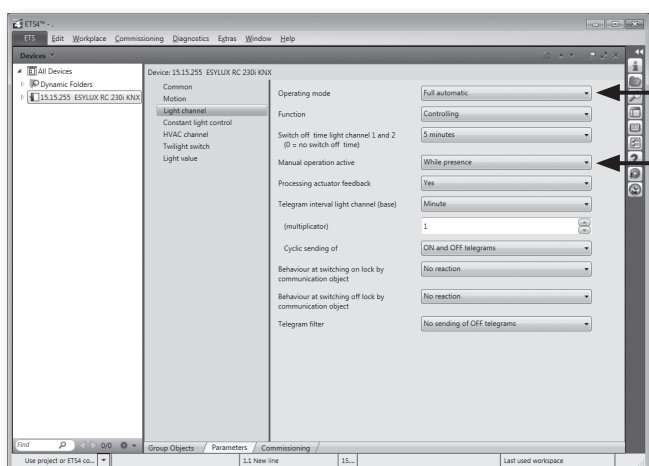
When movement is detected, this status is maintained for the preset time period. Then, several requests are sent to the sensors each second to determine whether further motion has been detected. The sensitivity of each sensor can be defined separately. If separate sensor output is selected, the output will be made via objects 20, 21 and 23. When analysed correctly, this can be used, for instance, to display motion direction. Object 19 can be used to lock motion detection.

7. PRESENCE SIMULATION

The detector stores any detected movement for a period of 1 week. An ON telegram via object 26 can then be used to switch the channels on or off according to this recorded movement. Normal motion detection remains active during this process.

8. EXTERNAL MASTER/SLAVE

This parameter can be used to determine whether the external master/slave only sends ON telegrams when motion is detected, or whether the external device sends an ON telegram when motion is detected and OFF telegrams when no movement is detected.



9. LIGHT CHANNEL

9.1 Light channel operating mode

• "Full automatic" operating mode

Lighting is automatically switched on if the detector detects presence and the ambient lighting level has fallen below the preset brightness threshold or set value. The lighting is automatically switched off if no persons are present and once the set switch off time has elapsed.

The lighting will also switch off automatically if the preset brightness threshold or set value is exceeded, regardless of presence.

When persons are present, in order to avoid sudden changes in brightness caused by undesired switching on/off of the lighting, the detector will only be triggered after a time delay.

Example: a passing cloud could potentially cause unnecessary switching.

Time delay from "light to dark": 30 seconds.

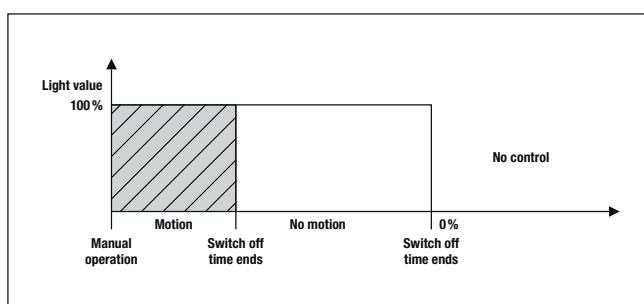
Time delay from "dark to light": 5 minutes.

• Additional manual lighting control in "Full automatic" mode

The lighting can be switched on or off manually using infrared remote control (Mobil-RCi-M, please also refer to separate Mobil-RCi-M operating instructions) or by telegrams, e.g. by pressing external KNX/EIB buttons.

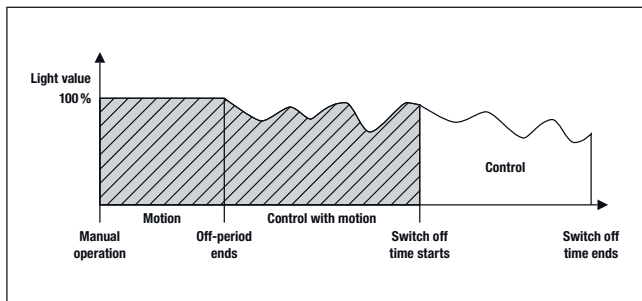
If "Manual operation active while presence" is set, the light can be switched on manually. This will remain switched on for as long as the detector continues to detect movement, regardless of the ambient brightness.

Manual operation active while presence



DESCRIPTION OF APPLICATION

Manual operation active during off-period



If "Manual operation active during off-period" is set, the detector turns the lighting to 100 % during this period. Once the off-period comes to an end and if there are persons present, the device will start regulating according to the preset value.

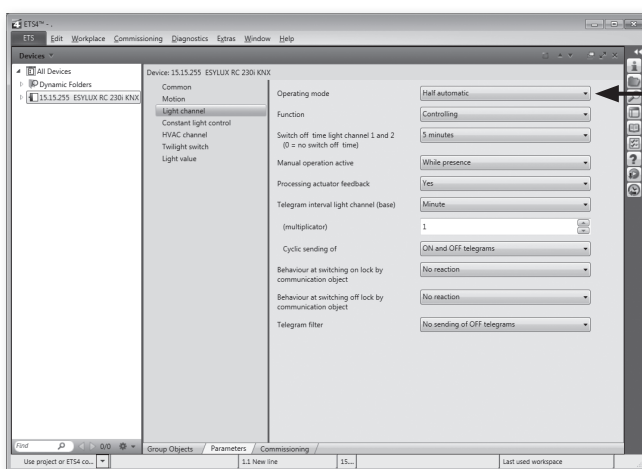
If no more movement is detected, the detector will revert to the previous automatic mode after the set switch off time has elapsed.



Note: Applies to all light channel operating modes.



Regardless of the operating mode (fully automatic or semi-automatic) and brightness value, the light can be switched on manually, e.g. using the KNX/EIB buttons.



• "Half automatic" operating mode

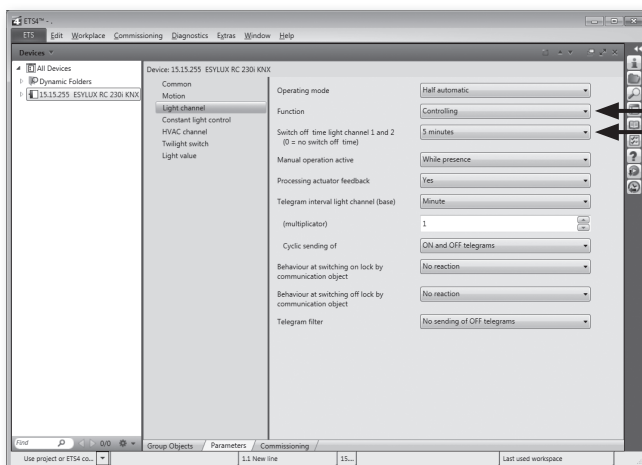
If "Half automatic" mode has been selected, the lighting must be switched on manually using infrared remote control (Mobil-RCi) or by telegrams, e.g. by pressing external KNX/EIB buttons. This means that the detector does not automatically switch "ON" the lighting when persons are present. However, should the natural lighting level increase and the ambient lighting level exceed the preset light value, the detector will automatically switch the lighting off 5 minutes after reaching the preset light value, regardless of any presence.

The lighting can subsequently be switched back on manually at any time. If "Manual operation active during off-period" is set, during this time the detector behaves in the same way as when the setting "Manual operation active while presence" is set. The detector then switches to normal operating mode. This means that the light can be switched on by the user even if the threshold value has been exceeded, but will then be automatically switched off again once the preset time has elapsed.



Note: External ON telegram, e.g. through KNX/EIB button, is essential in "Half automatic" mode. Applies to all light channel operating modes.

Default setting: Full automatic



9.2 Light channel function

Options:

- Switching:** ON/OFF to a defined threshold.
- Controlling:** ON/light control to a defined set value/(OFF) constant light control.
- Regulating:** light is regulated via linear correlation between the dim value and the light value.

Default setting: Switching

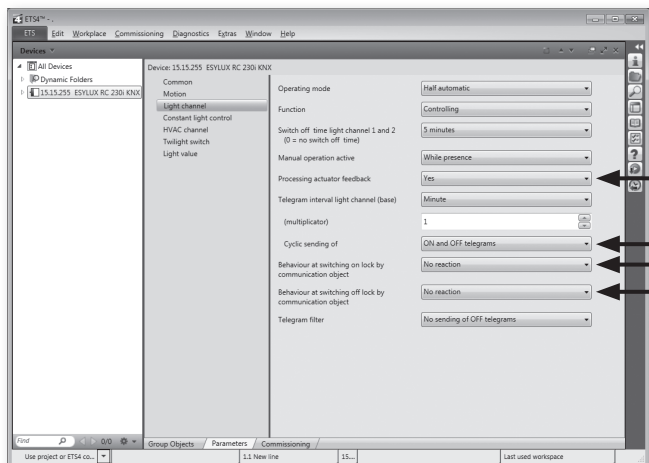
9.3 Light channel switch off time

• Light channel switch off time

Options: 0 seconds, 30 seconds – 30 minutes.

Default setting: 5 minutes.

DESCRIPTION OF APPLICATION



9.4 Processing actuator acknowledgement

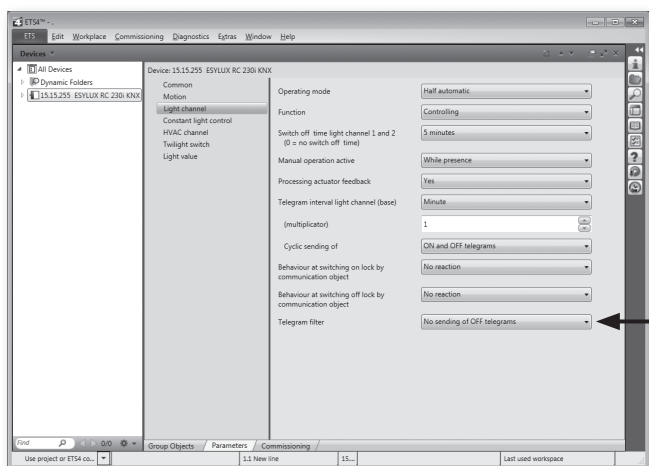
Objects 9 and 10 can be used to evaluate the status object of an actuator. In the event that the actuator is not only controlled by the detector, the light channel switches to standby mode if the status of the channel differs from that of the actuator.

9.5 Cyclic sending

The light channel sends its current status in cycles according to specified time intervals. At the same time, it is also possible to determine whether it repeatedly sends OFF or ON telegrams in cycles.

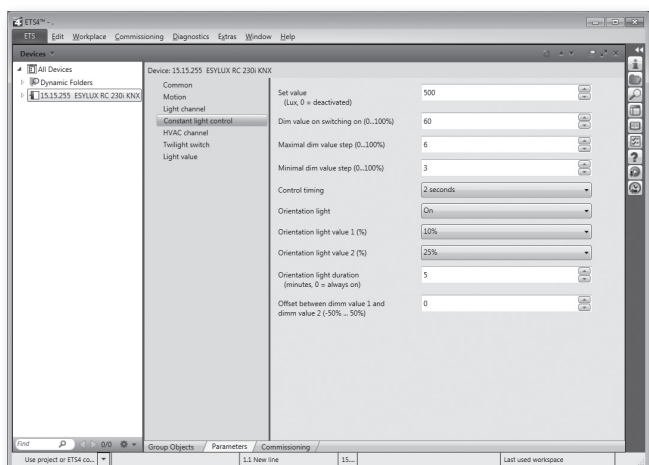
9.6 Behaviour during locking and unlocking

Options for each include: "No reaction", "Switch off" or "Switch on" the light channel.



9.7 Telegram filter

This can be used to prevent OFF or ON telegrams from being sent through the light channel.



10. LIGHT CHANNEL FUNCTION

10.1 Switching

0 = disabled

Select from 1 lux – 2,000 lux (using the up/down menu) or directly enter a value between 0 and 2,000 lux

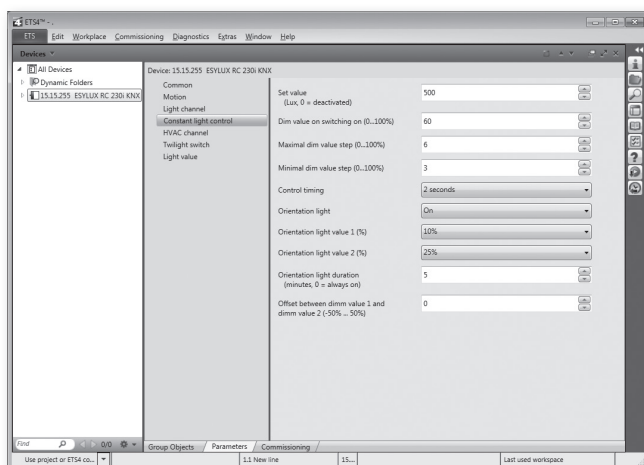
Default setting: 500 lux

There is an option of determining an offset between: "threshold ON/OFF 1" and "threshold ON/OFF 2"

-50% to +50%

Default setting: ±0%

DESCRIPTION OF APPLICATION



10.2 Controlling

• Dim value when controlling begins

0 = disabled

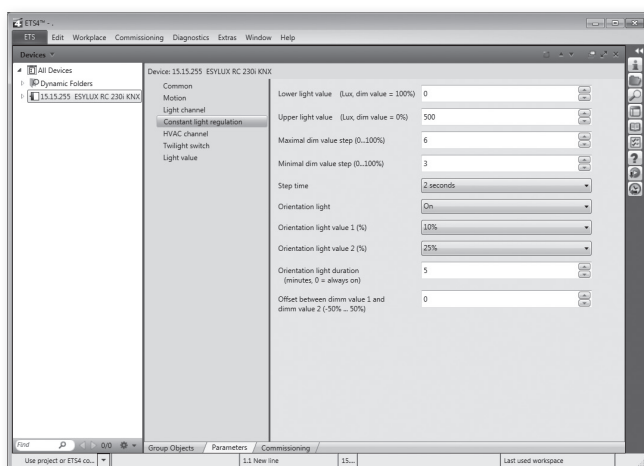
Select from 1 lux – 2,000 lux (using the up/down menu) or directly enter a value between 0 and 2,000 lux
Default setting: 500 lux

Control timing: Options: 0.5 seconds – 10 seconds (up/down menu)



Note: If the control loop exhibits a hunting tendency, the sensor can be adjusted to various illuminants and ballasts using the "control timing" parameter.

As a rule of thumb: the slower the lighting responds, the longer the control timing (0.5-10 seconds).



10.3 Regulating

• Dim value when regulating begins

0 = disabled

Select from 1 lux – 2,000 lux (using the up/down menu) or directly enter a value between 0 and 2,000 lux
Default setting: 500 lux

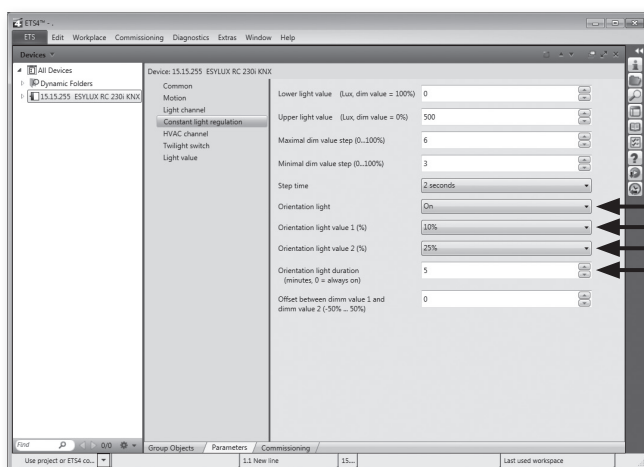
Control timing: Options: 0.5 seconds – 10 seconds (up/down menu)



Note: If the control loop exhibits a hunting tendency, the sensor can be adjusted to various illuminants and ballasts using the "control timing" parameter.

As a rule of thumb: the slower the lighting responds, the longer the control timing (0.5-10 seconds).

Default setting: 2 seconds.



10.4 Orientation light value

• Orientation light value 1

Options: 0/5 - 50 % (up/down menu) in 5 % steps



Note: Only active for "Controlling" and "Regulating"! Orientation light value 1 is active by default. Via object 12, an ON telegram changes the setting to orientation light value 2 and an OFF telegram changes the setting to orientation light value 1. This is only active if the orientation light has been set to "ON".

Default setting: 10 %

• Orientation light value 2

Options: 0/5 - 50 % (up/down menu) in 5 % steps

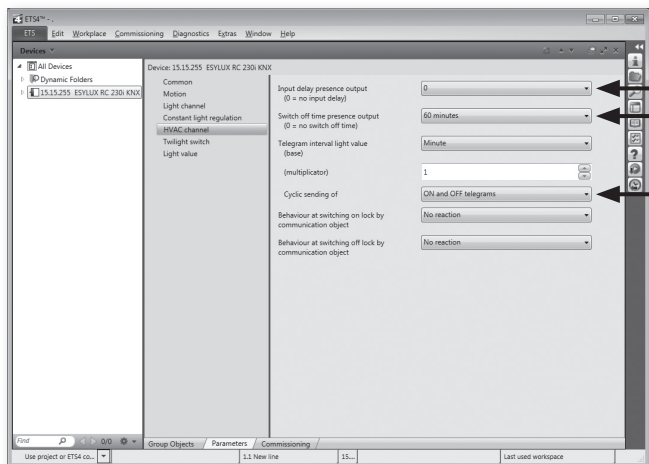


Note: Only active for constant light control!
Only active if orientation light has been set to "ON".

Default setting: 25 %

An OFF telegram via object 11 is used to switch off the orientation light function, while an ON telegram switches it on. If the orientation light function is switched off, the detector switches to OFF/0 % once there is no more presence and once the switch off time has elapsed.

DESCRIPTION OF APPLICATION



11. HVAC CHANNEL



Note: The presence output is independent of the set light values.

Option of selecting input delay of 0 minutes or 2 minutes – 30 minutes.
Default setting: 0 minutes.

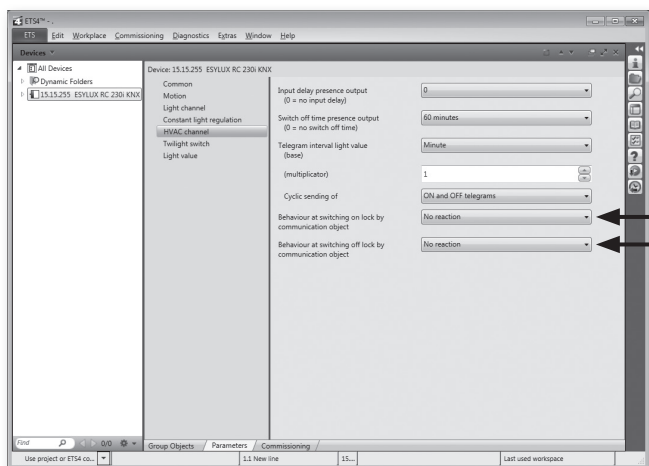
Option of selecting a switch off time of 0 seconds, 10 seconds or 1 minute – 60 minutes.
Default setting: 60 minutes.

11.1 Cyclic sending

The HVAC channel sends its current status in cycles according to specified time intervals. At the same time, it is also possible to determine whether it repeatedly sends OFF or ON telegrams in cycles.

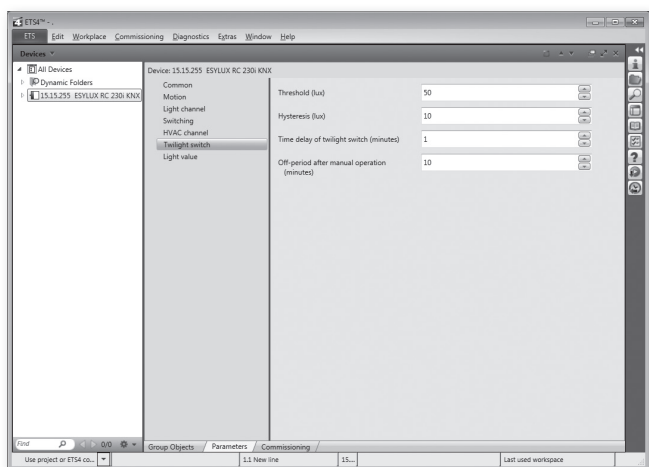
11.2 Behaviour during locking and unlocking

Options for each include: "No reaction", "Switch off" or "Switch on" the light channel.



12. TWILIGHT SWITCH

In normal operating mode, the twilight switch sends an ON telegram if the threshold value is not reached during the entire switching time and an OFF telegram if the threshold value is exceeded (plus hysteresis) during the entire switching time. The twilight switch remains inactive after manual switching and then switches to normal operating mode once the off-period has elapsed.



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