4 • START-UP

All parameter settings are carried out via the ETS (Engineering Tool Software). Pressing the programming button activates the programming status for the physical address on the PD-C360i/8 KNX UP. 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

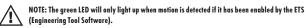
• Connect the bus supply

This initiates a warm-up phase that lasts approx. 10 seconds. The red LED and green LED will slowly flash alternately (f = 1 Hz).

LED display after warm-up

Each time motion is detected, this is indicated by 2 flashes of the preset LED colour. • In the "Master" function, the remote control entries will be acknowledged by 3 flashes from the **blue LED.**

• In the "Slave" function, each detection is acknowledged by 2 flashes of the green LED.



6 • TEST MODE

Parameters can be set via the ETS (Engineering Tool Software). Test mode switches to the RUN status after "storing", or 10 minutes after activating the test mode. The **blue LED** flashes to indicate movement

7 • REMOTE CONTROL

The optional user remote control Mobil-PDi/User (EM10425547) can be used to regulate/ control the lighting.

The Mobil-PDi/User remote control adjusts the lighting value for the period that persons are present plus the switch-off delay time. Thereafter, the values set via the ETS (Engineering Tool Software) will apply

NOTE: In the "Slave" function the detector does not respond to the remote control!

The Mobil-PDi/User can be used to control the lighting as follows:

- switching on or off
- dimming (only with "controlling" feature)
- storing and calling up of 2 scenes
 pressing the "Reset" button resets the KNX presence detector to the values set via ETS (Engineering Tool Software). The stored light scenes 1 + 2 are kept.

For further information, please refer to the operating instructions for Mobil-PDi/User the Mobil-PDi/User remote control.

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, Germany (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 with the invoice/receipt, unchanged, packed and with sufficient postage to the guarantor, along with a brief description of the fault, as soon as a defect has been 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 augrantee), then the augrantor may attempt to repair the device for you for a fee, keeping costs to a minimum

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• PD-C360i/8 KNX UP

ESYLUX

www.esylux.com



GB • OPERATING INSTRUCTIONS

Congratulations on your purchase of this high-quality ESYLUX product. To ensure correct device operation, please read these installation/operating instructions carefully and keep them in a safe place for future reference.

1 • SAFETY INSTRUCTIONS

WARNING! Work on electrical systems must be carried out by authorised personnel only, with due regard to the applicable installation regulations. Switch off the power supply before installing the system. 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). Do not make any changes or alterations as this will render any warrantees null and void. You should check the device for damage immediately after unpacking it. If there is any damage, you should 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. For correct use of the device, ensure that the UC network (or KNX/EIB) to be connected is designed for protection class 3.

NOTE: this device must not be disposed of as unsorted household waste. Used devices must be disposed of correctly. Contact your local town council for more information.

2 • DESCRIPTION

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The ESYLUX PD-C360i/8 KNX UP is a presence detector with a 360° field of detection and integrated bus coupler for ceiling mounting. Follow the installation instructions provided when installing the device. The detector is able to control lighting ("switching" or "constant light control" features).

For additional features, please refer to the "Description of applications" section of the operating instructions. With a range of up to 8 m in diameter, the presence detector is suitable for use in offices, classrooms, conference facilities and halls with natural lighting.

The PD-C360i/8 KNX UP is intended to be used in a KNX (EIB), TP bus system in conjunction with other KNX components

If the PD-C360i/8 KNX UP detects that persons are present in its field of detection, it transmits controlling telegrams for light outputs, depending on ambient brightness, and for HVAC (heating, ventilation and air conditioning) objects.

Mixed 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





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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 1/2: "Input: Light channel manual ON/OFF" (length = 1 bit)

Note: essential when in semi-automatic mode!

Manual operation is maintained when persons are present until the switchoff delay time has elapsed if "while presence" is set in the parameters. Light measurement is not active if the parameter "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. The function is transmitted to communication objects 5/6.

Object 3/4: "Input: Light channel manual dimming" (length = 4 bits)

Function: active when constant light control/regulation has been selected!

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 7.

Manual operation is maintained when persons are present until the switchoff delay 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 5/6: "Input: Light channel manual dim value" (length = 1 byte)

Function: active when constant light control/regulation has been selected!

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 8 and 9.

Manual operation is maintained when persons are present until the switchoff delay 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 7: "Input: Light channel control/regulating without presence" (length = 1 bit)

Operating mode: controlling

This object can be used to enable light control without presence.

Operating mode: regulating

This object can be used to enable light regulation without presence.

Object 8: "Output: Light channel ON/OFF" (length = 1 bit)

If artificial lighting is required (switching 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 delay time has elapsed.

Object 9: "Output: Light channel 2 ON/OFF" (length = 1 bit)

Function: switching - only available with switching function!

If artificial lighting is required (difference between switching threshold 2 and switching 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 delay time has elapsed.

Object 10/11: "Output: Light channel dimming" (length = 4 bits)

Function: constant light control/regulation

Telegrams can be transmitted to the dimming actuator via this object by manually pressing and holding down a touch sensor (object 2). Only active when "constant light control/regulation" has been enabled!

Object 12: "Output: Light channel dim value 1" (length = 1 byte)

Function: constant light control/regulation

If artificial lighting is required and persons are present, the output sends a 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 delay time has elapsed. Only active when "constant light control/regulation" has been enabled!

Object 13: "Output: Light channel dim value 2" (length = 1 byte)

Function: constant light control/regulation

If artificial lighting is required and persons are present, the output sends a 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 delay time has elapsed.

Option to offset dim value 2 and dim value 1 via parameter. Only active when "constant light control/regulation" has been enabled!

Object 14: "Input: Light channel 1 switching threshold" (length = 2 bytes)

(Operating mode: switching)

This object can be used to specify the switching threshold (lux) for channel 1 via telegram. This is only available if "switching threshold via telegram" has been selected.

Object 14: "Input: Light channel set value control" (length = 2 bytes)

(Operating mode: controlling)

This object can be used to specify the set value (lux) for light control via telegram. This is only available if "switching threshold via telegram" has been selected.

Object 14: "Input: Light channel regulating lower light value" (length = 2 bytes)

(Operating mode: regulating) This object can be used to specify the lower light value (lux) for light regulation via telegram. This is only available if "switching threshold via telegram" has been selected.

Object 15: "Input: Light channel 2 switching threshold" (length = 2 bytes)

(Operating mode: switching)

This object can be used to specify the switching threshold (lux) for channel 2 via telegram. This is only available if "switching threshold via telegram" has been selected.

Object 15: "Input: Light channel regulating upper light value" (length = 2 bytes)

(Operating mode: regulating)

This object can be used to specify the upper light value (lux) for light regulation via telegram. This is only available if "switching threshold via telegram" has been selected.

Object 16/17: "Input: Light channel 1/2 actuator feedback" (length = 1 bit)

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, the detector will be switched on with an ON telegram and then switched off once the switchoff delay time has elapsed (provided no further movement is detected). If an OFF telegram is sent, the detector will be switched off and will then revert immediately to standby mode. This is only available if "actuator feedback" has been enabled.

Object 18: "Input: Toggle light channel orientation light" (length = 1 bit)

Function: constant light control/regulation

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.

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OPERATING INSTRUCTIONS

Object 19: "Input: Light channel orientation light ON/OFF" (length = 1 bit)

Function: constant light control/regulation

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

Object 20: "Input: Snooze function ON/OFF" (length = 1 bit)

Function: constant light control/regulation

If the snooze function is enabled and presence is detected, the detector sends a value specified in the parameters instead of controlling/regulating the light.

LIGHT VALUE OBJECTS

Object 21: "Input: Lock sending light value" (length = 1 bit)

An ON telegram locks sending, while an OFF telegram enables sending of the internal light value. This is only active if "Behaviour at switching on lock" has been enabled.

Object 22: "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 for constant light control/regulation. This is evaluated using multipliers.

Object 23: "Output: Internal light value 1" (length = 2 bytes)

This object can be used to output the internal light value without offset or factor values.

Object 24: "Output: Internal light value 2" (length = 2 bytes)

This object can be used to output the internal light value without offset or factor values.

Object 25: "Output: Current light value" (length = 2 bytes)

This object can be used to output the light's current actual value. This takes into account the offset, the internal light value factor and the external light value factor and value. This value is used by the light channel and the twilight switch to evaluate the light value.

HVAC CHANNEL OBJECTS

Object 26: "Input: Lock HVAC channel" (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 27: "Input: HVAC channel 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 delay time, an OFF telegram is sent.

Object 28: "Output: HVAC channel 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 delay time, an OFF telegram is sent.

Object 29: "Output: HVAC channel dim value" (length = 1 byte)

This communication object can be used to output a parametrisable dim value ranging from 0 - 100%.

Object 30 "Output: HVAC channel scene" (length = 1 byte)

Individual scenes (1 of 64) can be called up for switch ON and switch OFF.

MOTION OBJECTS

Object 31: "Input: Slave/Master motion" (length = 1 bit)

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

Object 32: "Input: Lock motion detection" (length = 1 bit)

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

Object 33: "Output: Motion detection" (length = 1 bit)

Output of own PIR motion detection.

OBJECTS FOR CONTROLLING/REGULATING TWILIGHT SWITCH FUNCTION

Object 37: "Input: Twilight switch manual ON/OFF" (length = 1 bit)

Manual override remains active until the off-period has elapsed.

Object 38: "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. Hysteresis can be adjusted using the parameters.

Object 39: "Output: Twilight switch dim value" (length = 1 byte)

This communication object can be used to output a parametrisable dim value ranging from 0 - 100%.

Object 40: "Output: Twilight switch scene" (length = 1 byte)

Individual scenes (1 of 64) can be called up for switch ON and switch OFF.

PRESENCE SIMULATION OBJECT

Object 41: "Input: Presence simulation ON/OFF" (length = 1 bit)

Presence simulation is switched on or off.

NIGHTLIGHT OBJECT

Object 42: "Input: Nightlight ON/OFF" (length = 1 bit)

The nightlight function is switched on or off - the motion detection/locking display is retained.



ALARM OBJECTS

Object 43: "Input: Lock alarm" (length = 1 bit)

"1" locks the alarm function, while "0" unlocks the alarm function.

Object 44: "Input: Alarm ON/OFF manually" (length = 1 bit)

This object can be used to manually override the alarm, irrespective of motion detection. Note: If "Alarm must be acknowledged" is set in the parameters, the alarm can only be switched off via this object.

Object 45: "Output: Alarm ON/OFF" (length = 1 bit)

An alarm is triggered if a continuous number of movements are detected within a parametrisable time frame. If "Alarm must be acknowledged" is not set in the parameters, the alarm will be switched off if no movements are detected within a specific time frame.

Object 46: "Output: Sensor status" (length = 1 bit)

Indicates whether the sensor head is assembled. The types of telegram with or without sensor head, and cyclic sending can be adjusted.

RESET OBJECT

Object 47: "Input: Reset" (length = 1 bit)

An ON telegram via this object restarts the device.

OBJECTS FOR SWITCHING FUNCTION

New 🔹 🔓 Close Pro	ject 👘) Print 🖍 Undo 🖓 Redo 📃	Workplace 🔹 🏭	Catalogs	Diagnostics 💌									1.0
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ldd Devices 👻 🖄 De	ter 15	New Dynamic Folder											Find	27
1.1.1 ESYLUX P., *	Number	None	Object Function	Description	Group Address	Length	100	8	w	T	U	Data Teles	Priority	_
ZO: Input: Lock L.	\$0	Input Lock light channel				1 bit	с		w				Low	
Z1: Input Light.	\$ 1	Input Light channel 1 manual ON/OFF				1 bit	С		w				Low	
#2: Input: Light	22	Input: Light channel 2 manual ON/OFF				1 bit	с		w				Low	
28: Output: Ligh	\$ 8	Output: Light channel 1 ON/OFF				1 bit	С	R		т			Low	
#9 Output Ligh	\$ 9	Output: Light channel 2 ON/OFF				1 bit	с	R		т			Law	
110 Output Lig.	10	Output: Light channel 1 scene				1 Byte	С	R		Т			Law	
111 Output Lig.	2 11	Output: Light channel 2 scene				1 Byte	с	R		т			Law	
12: Output: Lig	2 12	Output: Light channel 1 dim value				1 Byte	С	R		Т			Low	
	2 13	Output: Light channel 2 dim value				1 Byte	с	R		т			Low	
14 Input Light	2 14	Input Light channel 1 threshold				2 Byte	с		w				Low	
15: Input: Light.	i⊈ 15	Input Light channel 2 threshold				2 Byte	С		w				Low	
16: Input: Light.	2 16	Input: Light channel 1 actuator feedback				1.bit	С		W				Low	
17: Input Light.	¢ 17	Input Light channel 2 actuator feedback				1.bit	с		w				Low	
21: Input Lock F	21	Input: Lock sending light value				1.bit	С		w				Low	1
22: Input Exter.	\$ 22	Input External light value				2 Byte	С		w				Low	
23: Output: Int.	23	Output: Internal light value 1				2 Byte	С	R		т			Low	
24: Output: Int.	\$ 24	Output: Internal light value 2				2 Byte	С	R		т			Low	
25: Output: Cu.	25	Output: Current light value				2 Byte	С	R		т			Law	
26 Input Lock.	26	Input: Lock presence (HVAC)				1 bit	с		w				Law	
27 Input Pres.	27	Input: Presence (HVAC) ON/OFF				1 bit	С		w				Law	
28: Output: Pr	28	Output: Presence (HVAC) ON/OFF				1 bit	с	R		т			Low	
29: Output: HV	12 29	Output: HVAC channel dim value?				1 Byte	С	R		Т			Low	
30: Output: HV	12 30	Output: HVAC channel scene?				1 Byte	С	R		т			Low	
31: Input: Slav	2 31	Input Slave/master motion				1 bit	С		w				Low	
32: Input: Lock.	2 32	Input Lock motion detection				1.bit	с		w				Low	
33: Output: M	2 33	Output: Motion detection				1.bit	С	R		Ŧ			Low	
37: Input: Twik	\$ 37	Input Twilight switch manual ON/OFF				1.bit	с		w				Low	
38: Output: Tw	i ‡ 38	Output: Twilight switch ON/OFF				1.bit	С	R		Ŧ			Low	
39: Output: Tw	4 39	Output: Twilight switch dim value				1 Byte	с	R		т			Low	
240: Output: Tw	i∉ 40	Output: Twilight switch scene				1 Byte	С	R		T			Low	
	2 41	Input: Presence simulation ON/OFF				1 bit	0		w				Law	

OBJECTS FOR CONTROLLING/REGULATING FUNCTION

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dd Devices 👻 🖂 I	Delete 🛛	New Dynamic Folder		_							Find	2
1.1.1 ESYLUX P *	Numb	er Name	Object Function Descripti	Group Address.	Length	1.0	R	W	T	U	Data Ty Priority	_
0: Input: Lock L.	=# 0	Input: Lock light channel			16≷	С		W			Low	
1: Input: Light	=#1	Input: Light channel 1 manual ON/OFF			1.b≹	С		W			Low	
2: Input: Light	∎ ‡ 2	Input: Light channel 2 manual ON/OFF			1 bit	С		W			Low	
3: Input: Light	H\$ 3	Input: Light channel 1 manual dimming			4 bit	С		W			Low	
4: Input: Light	12 4	Input: Light channel 2 manual dimming			4 bit	С		W			Low	
5 Input: Light	12 S	Input: Light channel 1 manual dim value			1 Byte	С		W			Low	
6 Input: Light	∎ 2 6	Input: Light channel 2 manual dim value			1 Byte	С		W			Low	
8: Output: Ligh	= 2 8	Output: Light channel 1 ON/OFF			1 bit	С	R		Т		Low	
9: Output: Ligh	129	Output: Light channel 2 ON/OFF			1 bit	С	R		т		Low	
10: Output: Lig	# 2 10	Output: Light channel 1 dimming			4 bit	С	R		т		Low	
11: Output: Lig	## 11	Output: Light channel 2 dimming			4 bit	С	R		т		Low	
12: Output: Lig	## 12	Output: Light channel 1 dim value			1 Byte	С	R		т		Low	
13: Output: Lig #	## 13	Output: Light channel 2 dim value			1 Byte	С	R.		т		Low	
18: Input: Sele	## 18	Input: Select orientation light			16≷	С		W			Low	
19: Input: Orie	## 19	Input: Orientation light ON/OFF			16≷	С		W			Low	
21: Input: Lock.	## 21	Input: Lock sending light value			1 b≷	С		W			Low	
22: Input: Exter	# # 22	Input: External light value			2 Byte	С		W			Low	
23: Output: Int	# # 23	Output: Internal light value 1			2 Byte	С	R.		Т		Low	
24: Output: Int	12 24	Output: Internal light value 2			2 Byte	С	R.		т		Low	
25: Output: Cu	# 2 25	Output: Current light value			2 Byte	С	R		Т		Low	
26: Input: Lock.	12 26	Input: Lock presence (HVAC)			1 bit	С		W			Low	
27: Input: Pres.	# 2 27	Input: Presence (HVAC) ON/OFF			1 bit	С		W			Low	
28: Output: Pr	# 2 28	Output: Presence (HVAC) ON/OFF			1 bit	С	R		Т		Low	
29: Output: HV	12 29	Output: HVAC channel dim value?			1.0yte	С	R		T		Low	
30: Output: HV	#2 30	Output: HVAC channel scene?			1.0yte	С	R		т		Low	
31: Input: Slav	82 31	Input: Slave/master motion			1.b≹	С		W			Low	
32: Input: Lock	# # 32	Input: Lock motion detection			1.b≹	С		W			Low	
33: Output: M.	12 33	Output: Motion detection			1.b≹	С	R		T		Low	
37: Input: Twili	∎ ‡ 37	Input: Twilight switch manual ON/OFF			1.6≷	С		W			Low	
38: Output: Tw	12 38	Output: Twilight switch ON/OFF			1.6≷	C	R		T		Low	

	Commissioning Diagnostics Extras				
Devices Y		🕼 Redo 🛛 📰 Workplace 🔹 🇱	Carry Carpendia +		
(Find P) <> 0. Use project or ETS4 connecti	Group Objects / Parameters / Cor	rmissioning /	Last used workspace	ATMOund	

1. MASTER/SLAVE

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

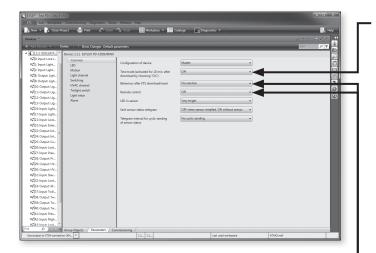
"Lighting ON/OFF" or "lighting light value higher/lower"

The Slave is used exclusively to extend the field of detection. Presence is transmitted to the Master (object 31) 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 (object 33) 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 is "ON" \rightarrow light measurement is disabled.

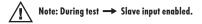
When test mode is enabled, the connection with the

lighting system is checked.

If the motion sensor detects movement, the lighting will be "ON" for 5 seconds, followed by a dead time of 1 second "OFF".

The blue LED indicates that movement has been detected.

Test ON switches to test OFF automatically after 10 minutes, or when the parameters are stored.



3. BEHAVIOUR AFTER ETS DOWNLOAD/RESET

Choose from: "No reaction", "ON", "OFF" During the process, the following objects are sent:

Switching operating mode:

- Object 8: "Output: Light channel 1 ON/OFF"
- Object 9: "Output: Light channel 2 ON/OFF"

"Controlling" or "regulating" operating mode:

- Object 8: "Output: Light channel ON/OFF"
- Object 12: "Output: Light channel dim value 1"
- Object 13: "Output: Light channel dim value 2"
- Also, object 28: "Output: HVAC channel ON/OFF"

4. REMOTE CONTROL

This is where you can disable operation via the Mobil-PDi/User or X-REMOTE (iPhone).

Caution: Remote control is disabled in test mode.

evices *				3 + +
Add Devices 👻 🔨 Delete 🔢 Show Changes De	rfault parameters			100 P Y
Lili ESYLUX P Common Common LED	SKNX Color when motion is detected	Green		120
II222 Input: Light Motion II228: Output: Ligh Light channel	Color when motion detection is locked	Red		
#2 9: Output: Ligh Switching #2 10: Output: Ligh HVAC channel #2 11: Output: Ligh Twilight switch	Color sensor in programming mode (blue if application not programmed) Nightlight function	Blue On		7
12 Output Up Alarm	Color when threshold is underrun	White	•	۲
##16 Input Light ##17 Input Light	Color when threshold is exceeded	White	•	
N# 21: Input: Lock	Threshold (lux)	50		
#2123: Output: Int	Hysteresis (Jun)	10		
NC 26 Input Lock NC 27: Input Pres NC 28: Output Pre				
82 29: Output: HV 82 30: Output: HV				
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#2 33: Output: M #2 37: Input: Twil				
## 38 Output: Tw ## 39: Output: Tw				
#\$140. Output: Tw.,				

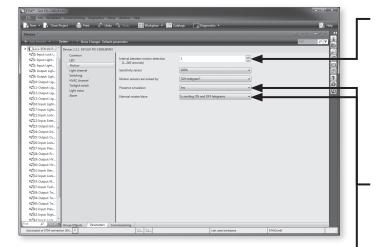
5. LEDS IN SENSOR

Options: choose between one of the LED brightness levels or "OFF"

If the LED is not switched off, you can specify its colour when motion is detected (2 x flashes) and when motion detection is locked via object 32. You can use the parameters to set the brightness of the LED to 1 of 5 different levels.

5.1 Night-light feature

This function allows you to use the LED as a nightlight. It will switch to one of the preset colours as soon as the light value falls below or exceeds the threshold. You can use object 42 to disable the nightlight.



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 (object 33). You can use one of the parameters to set the sensor's level of sensitivity.

Object 32 can be used to lock motion detection. The LED will display the colour selected to indicate this.

7. PRESENCE SIMULATION

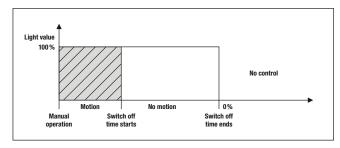
The detector keeps a constant record of if and when movement has been detected, for a period of 1 week. An ON telegram via object 41 can then be used to switch the channels on or off according to this weekly record. The stored time lapse is taken into account. Normal motion detection also remains active during this process.

8. EXTERNAL MASTER/SLAVE

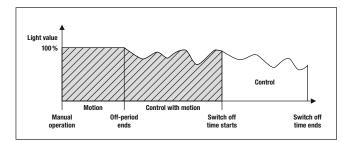
This parameter can be used to determine whether the external Master/Slave only sends ON telegrams when motion is detected, or whether the external device sends an ON telegram when motion is detected and OFF telegrams when no movement is detected.

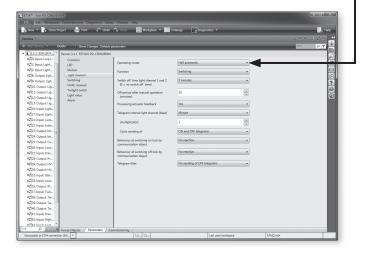
rices *				
Add Devices 👻 📈 De	lete Show Changes D	efault parameters		End P 1
1.1.1 ESYLUX P *	Device: 1.1.1 ESYLUX PD-C360	/80/X		
I 🕻 🗘 Input: Lock L.	Common		Full automatic	
## 1: Input: Light	LED	Operating mode	Full automatic	
12 2: Input: Light	Motion	Function	Switching	
12 8: Output: Ligh	Light channel			8 .
12 9: Output: Ligh	Switching HVAC channel	Switch off time light channel 1 and 2 0 = no switch off time)	5 minutes •	2
10 Output: Lig	HVAC channel Twilight switch			ā
12 11: Output: Lig	Light value	Manual operation active	With disabled light processing during off-period -	
12 Output: Lig	Δlarm	Off-period after manual operation	30	(m/)
13 Output: Lig		(minutes)	30 m	
#16 Input Light.		Processing actuator feedback	Yes	
217: Input: Light		Processing actuator recoback	ie.	
21: Input: Lock		Telegram interval light channel (base)	Minute .	
22: Input: Exter				
23: Output: Int		(multiplicator)	1	
24 Output: Int		Cyclic sending of	ON and OFF telegrams	
25: Output: Cu.		cyclic schang of		
2 2ft Input: Lock.		Behaviour at switching on lock by	No reaction .	
2 27: Input: Pres		communication object		
1228: Output: Pr		Behaviour at switching off lock by	No reaction ·	
29: Output: HV		communication object		
2 30: Output: HV		Telegram filter	No sending of OFF telegrams	
231: Input Slav				
12 32 Input Lock				
12 33: Output: M				
12 37: Input: Twili				
#38 Output: Tw				
439 Output: Tw				
40: Output: Tw				
41: Input: Pres				
12/42: Input: Nigh				

Manual operation active while presence



Manual operation active during off-period





9. LIGHT CHANNEL

9.1 Light channel operating mode

• "Fully 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 preset switch-off delay 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 fully automatic mode

The lighting can be switched on or off manually using infrared remote control (Mobil-PDi/User, please also refer to separate Mobil-PDi/User 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.

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 controlling the lighting according to the preset target value.

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



• "Semi-automatic" operating mode

If "semi-automatic" mode has been selected, the lighting must be switched on manually using infrared remote control (Mobil-PDi/User) 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.

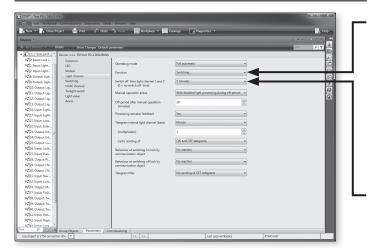
If "Manual operation active during off-period" is set, during this time the detector behaves in the same way as when the setting "Manual operation active while presence" is set. The detector then switches to normal operating mode. This means that the light can be switched on by the user even if the threshold 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 semi-automatic mode! Applies to all light channel operating modes.

Default setting: Fully automatic

о Ц

DESCRIPTION OF APPLICATIONS



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 delay time

• Light channel switch-off delay time

Options: 0 seconds, 30 seconds - 12 hours

Default setting: 5 minutes

9.4 Processing actuator feedback

Objects 16 and 17 (or object 16 when "controlling" or "regulating" is selected) 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 at switching lock ON or OFF

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

9.7 Telegram filter

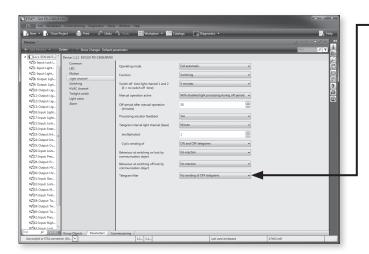
This can be used to prevent OFF or ON telegrams from being sent through the light channel.

9.8 Lighting controlled regardless of presence

9.9 Lighting controlled/regulated regardless of presence

An ON telegram can be sent via object 7 to initiate light control/regulation regardless of presence if this function has been enabled in the parameters (only visible in controlling/regulating operating mode).

 Image: interview
 Image: imag





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	or: 1.1.1 ESYLUX PD-C360/8KNX					
	Common	Threshold 1	500			
	LED	(Lux 0 = deactivated)		-		1
	Motion					19
	Light channel Switching	Difference between threshold 1 and threshold 2 (-100% 100%)	0			E C
	WAC channel	1				12
	Twilight switch	Preset thresholds via telepram	On	•		
#41TD Onder DB**	Light value	1 '				12
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■# 16: Input: Light		1000 00 1000 1000 00 00 00 00				
##17: Input: Light		Value to send at switching off (%)	0			_
## 21: Input: Lock						_
#2 22: Input: Exter		Output telegrams scene	On			
## 23: Output: Int						
#2 24: Output: Int		Scene to send at switching on	1			
##25: Output: Cu		Scene to send at switching off	2	*		
#2 26 Input: Lock		scene to send at switching off	2			
#2 27: Input: Pres-						_
#2 28: Output: Pr						
#2 29: Output: HV						
#2130: Output: HV						_
#2 31: Input: Slav						
##32 Input Lock-						_
##33 Output: M						_
##137 Input Twill.						
##138 Output: Tw.,						
##139: Output: Tw						
##140: Output: Tw						
#2141: Innut: Pres *						
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10. LIGHT CHANNEL FUNCTION

10.1 Switching

Threshold 0 = disabled, motion detection only

Threshold 1 - 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 (can also be assigned using objects 14 and 15) between "switching threshold ON/OFF 1" and "switching threshold ON/OFF 2"

-50% to +50%

Default setting: ±0%

Output telegrams can be sent in binary form (objects 8 and 9), as dim values (objects 12 and 13), (0-100%), or as scenes (objects 3/4 and 5/6), (1-64). Individual parameters can be set for the switch ON and OFF values.

10.2 Controlling

• Dim value when controlling begins

Options: 0 - 100% (using the up/down menu) or direct entry 0 - 100% Default setting: 60%

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

If the snooze function is enabled and presence is detected, the detector sends a value specified in the parameters instead of controlling/regulating the light.



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).

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12 1: Input: Light	Common	Set value	500		
#22: Input: Light	Motion	(Lux, 0 = deactivated)			
12 3: Input: Light	Light channel	Preset set value via teleoram	Off		
#24: Input: Light	Controlling				
## St Input: Light	HVAC channel	Dim value on switching on (0100%)	60		
#2 6 Input: Light	Twilight switch	Maximal dim value step (010%)	3		
## 8: Output: Ligh	Light value Alarm	Maximal dim value step (02016)	3		
#29: Output: Ligh	Alarm	Minimal dim value step (010%)	0		
#2 10: Output: Lig					
## 11: Output: Lig		Minimal dim value (0-100%)	0		
##12 Output Lig			100	(20)	
##13 Output Lig #		Maximal dim value (0-100%)	100		
##18 Input Sele		Control timing	2 seconds	•	
■# 19: Input: Orie					
■# 21: Input: Lock		Orientation light	On	*	
12 Input: Exter		Orientation light value 1 (%)	10%		
## 23: Output: Int					
## 24 Output: Int		Orientation light value 2 (%)	25%	•	
##25: Output: Cu		Orientation light duration	5		
##26: Input: Lock		(minutes, 0 = always on)		(*)	
##12/: Input: Pres ##128: Output: Pr		Offset between dimm value 1 and	0	-	
#2129: Output: HV		dimm value 2 (-100% 100%)	0		
#2 30: Output: HV		Snooze function	Off		
#231: Input: Size		Shouze function	u	•	
#2 32: Input: Lock					
#2 33: Output: M					
## 37: Input: Twili					
## 38: Output: Tw					

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#20: Input Lock L.	Device: 1.1.1 ESYLUX PD-C360//8KNX					2
##jcc input: Light	Common	Lower light value (Lux, dim value = 100%)	0			
## 1: input: Light	LED Motion					100
##13: Input Light	Light channel	Upper light value (Lux, dim value = 0%)	500			1 55
144 Input Light	Regulating		Он			
#2 S Input Light-	HVAC channel	Preset limit values via telegram	Uff			14
## to Input Light	Twilight switch	Maximal dim value step (010%)	3			200
##8 Output Ligh	Light value					6
129 Output: Ligh	Alarm	Minimal dim value step (010%)	0			
##10. Output: Lig		Minimal dim value (0-100%)	0			
##11: Output: Lip		Winingi dim value (0-100/0)	0			
■#12: Output: Lig		Maximal dim value (0-100%)	100			
🞼 13: Output: Lig 🗐						
##18: Input: Sele		Step time	2 seconds	•		
## 19: Input: Orie		Orientation light	On	*		
## 21: Input: Lock						
## 22: Input: Exter		Orientation light value 1 (%)	10%	•		
#2 23: Output: Int		Orientation light value 2 (%)	25%			
#2 24: Output: Int		Citemation agric funce 2 (A)				
#2 25: Output: Cu		Orientation light duration	5			
#2 25: Input Lock #2 27: Input Pres		(minutes, 0 = always on)		_		
#2/27: Input: Pres #2/28: Output: Pr		Offset between dimm value 1 and	0			
##29 Output HV		dimm value 2 (-100% 100%)				
##130. Output: HV		Snooze function	Off	•		
##31: Input: Slav						
##32 Input Lock						
##33 Output M.						1
##137: Input: Twili						
#238 Output: Tw.,						1
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10.3 Regulating

Lower light value: 0 - 2,000 lux Upper light value: 0 - 2,000 lux

Lower minimal dim value: 0 - 100% Upper maximal dim value: 0 - 100%

Caution: Always ensure that the maximal value selected is higher than the chosen minimal value.

Step time: Options: 0.5 - 10 seconds (up/down menu)

If the snooze function is enabled and presence is detected, the detector sends a value specified in the parameters instead of controlling/regulating the light.

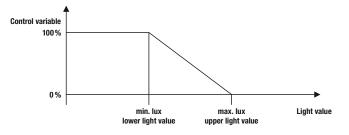
Note: If the control loop exhibits a hunting tendency, the sensor can be adjusted to various illuminants and ballasts using the "step time" parameter.

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

Default setting: 2 seconds

You can specify 2 light values for light regulation using parameters or telegrams (communication objects 14 and 15). If the maximal light value is reached, a telegram is sent with a value of 0%. If the lower light value is measured, a telegram is sent with a value of 100%. In between this, the control variable is calculated on a linear basis and sent to the dimming actuator (objects 12 & 13). The externally connected or internal light sensor must be positioned in such a way to ensure that it receives a large amount of natural light, but little artificial light.

Example



Setting of minimal and maximal dim value step (0 - 10%), enabled during controlling and regulating

Setting of minimal and maximal dim value (0 - 100%), enabled during controlling and regulating

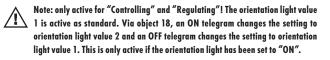
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4 111 ESYLUX P *	Device: 1.1.1 ESYLUX PD-C360//8KNX					15
#¢ 0: Input: Lock L.	Common	1				10
## 1: Input: Light	LED	Set value (Lux, 0 = deactivated)	500			Œ
## 2: Input: Light	Motion					
## 3: Input: Light	Light channel	Preset set value via telegram	Off	•		12
II 4: Input: Light	Controlling HVAC channel	Dim value on switching on (0100%)	60			2
#2 St Input: Light	Twilight switch					0
#2 & Input: Light	Light value	Maximal dim value step (010%)	3			Q
#2 & Output: Ligh	Alarm					-
#2 9: Output: Ligh		Minimal dim value step (010%)	0			
#2 10: Output Lig #2 11: Output Lig		Minimal dim value (0-100%)	0			
#212 Output Lis		Ninina Gin 1802 (0-2003)				
##13 Output Up #		Maximal dim value (0-100%)	100	(m)		
##18 Input Sele						
##19 Input Orie		Control timing	2 seconds	•		
## 21: Input Lock		Orientation light	Qn			
##122 Input Exter						
122 Output Int.		Orientation light value 1 (%)	10%	•		
##24 Output: Int		Orientation light value 2 (%)	25%			
#225: Output: Cu.,		Citemation right table 2 (A)	6.7.4	-		
#2126 Input Lock		Orientation light duration	5			
#2 27: Input: Pres		(minutes, 0 = always on)				
## 28: Output: Pr		Offset between dimm value 1 and	0			
#2 29: Output: HV		dimm value 2 (-100% - 100%)				
##30: Output: HV		Snooze function	Off	•		
#2 31: Input: Slav			·			
## 32: Input: Lock						
#2 33: Output: M						
#2 37: Input: Twili						
## 38: Output: Tw						
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1111 ESYLUX P * Device: 1.11 ESYL	IX PD-C360//8KNX			
N# 0: Input: Lock L. Common N# 1: Input: Light LED	Lower light value (Lux, dim value = 100%)	0		a la
N#2: Input: Light Motion N#2: Input: Light Light channel	Upper light value (Lux, dim value = 0%)	500		
R#14: Input: Light R#15: Input: Light HVAC channe Twilight swite		Off	•	
It in the second	Protection carry many step (ccom)	3	8	
#2 10: Output: Ligh #2 10: Output: Lig	Minimal dim value step (010%) Minimal dim value (0-100%)	0	8	
#\$11: Output: Lig #\$12: Output: Lig	Maximal dim value (0-100%)	100		
#2 13: Output Lig 1 #2 18: Input Sele	Step time	2 seconds	•	
##19 Input Orie ##21: Input Lock	Orientation light	Gn	•	
#2 22 Input Exter #2 23: Output Int	Orientation light value 1 (%) Orientation light value 2 (%)	10%	•	
## 24: Output: Int ## 25: Output: Cu ## 26: Input: Lock	Orientation light duration	5	8	
#2/20 Input Doc #2/27 Input Pres #2/28 Output Pr	(minutes, 0 = always on) Offset between dimm value 1 and	0		
#2 29 Output: HV	dimm value 2 (-100% 100%) Snooze function	Сн	•	
## 31: Input Slav				
##133 Output: M.,				

10.4 Orientation light value

• Orientation light value 1

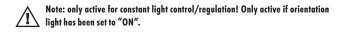
Options: 0/5 - 50% (up/down menu) in 5% steps



Default setting: 10%

• Orientation light value 2

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



Default setting: 25%

An OFF telegram via object 19 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 delay time has elapsed.

erkes T				
	nges. Default parameters			EM PT
				200 P T
Device 1.11 ESYLUX P.	D-C360/8KNX			
■学の Input: Lock L. Common ■学知 Input: Light. IFD	Operating mode	Full automatic		
##[] Input Light LED				
#28: Output: Ligh Light channel	Input delay presence output (0 = no input delay)	0	•	
#29: Output: Light. Switching		60 minutes		
HVAC channel HVAC channel	Switch off time presence output 0 = no switch off time)	60 minutes	•	
Twilight switch		Moute		
Itight value	Telegram interval light channel (base)	Minute	-	
##13: Output: Lig Alarm	(multiplicator)	1	-	
#2 14: Input: Light				
#2 15: Input: Light	Cyclic sending of	ON and OFF telegrams	•	
#2 16 Input: Light	Behaviour at switching on lock by	No reaction		
#2 17: Input: Light.	communication object			
##21: Input Lock-	Behaviour at switching off lock by	No reaction		
12 22 Input Exter-	communication object	·		
##23 Output Int ##24 Output Int	Output telegram binary	On		
##224 Output Int ##225 Output Cu				
##25 Input Lock.	Output telegram dim value	On	•	
##120: Input: Doc	Value to send at switching on (%)	100		
##28 Output Pr.	1000 00 1000 00 000 000			
#2/29. Output: HV	Value to send at switching off (%)	0		
## 30: Output: HV	Output telegram scene	(0n		
#231: Input: Slav	control veregiam scene	-	•	
## 32: Input: Lock	Scene to send at switching on	1		
#2 33: Output: M_				
#2 37: Input: Twili	Scene to send at switching off	2		
#2 38: Output: Tw				
#2 39: Output: Tw				
#240: Output: Tw *				

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 delay time of 0, 1 - 60 minutes or up to 12 hours. 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 at switching lock ON or OFF

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

rvices *				2 A Y 9 2 X
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11.1.1 ESYLUX P * Device: 1.1.1 ESYLUX PD-C	160//8KN0K			9
#2 0: Input: Lock L. Common #2 1: Input: Light LED	Threshold twilight switch (Lus)	50	-	2
III 2 Input Light Motion III 8 Output Light Light channel	Hysteresis (lux)	10		L
## 9 Output Ligh Switching ## 10 Output Ligh HVAC channel	Time delay of twilight switch (minutes)	1		
Twilight switch	Off-period after manual operation (minutes)	10		1
Alarm Alarm	Output telegram binary	On	•	
## 15: Input: Light ## 16: Input: Light	Output telegram dim value	On	•	
##17: Input: Light	Value to send at switching on (%)	100		
##21: Input: Lock ##222: Input: Exter	Value to send at switching off (%)	0		
12 23: Output: Int	Output telegram scene	On	•	
##224 Output: Int ##225 Output: Cu	Scene to send at switching on	1	-	
##22ft Input: Look ##227: Input: Pres	Scene to send at switching off	2	-	
#2 28: Output: Pr #2 29: Output: HV				
112 30: Output: HV 112 31: Imput: Slav				
#2132 Input Sav #2132 Input Lock				
12 33: Output: M				
#2 37: Input Twik				
#2 18: Output: Tw				
## 39: Output: Tw				
#240 Output Tw.				

12. TWILIGHT SWITCHES

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 (via communication object 38). The output telegram can be sent in binary form (object 38), as a dim value (object 39), (0-100%) or as a scene (object 40), (1-64). Individual parameters can be set for the switch ON and OFF values. The twilight switch remains inactive if it is manually switched using communication object 37 until the off-period has elapsed, at which point it reverts to normal operating mode.

PD-C360i/8 KNX UP

13. LIGHT VALUE

13.1 Current light value

The current light value can be transmitted either in cycles or from a specified offset to the last actual value sent. This value is calculated as follows:

(EP10427404)

Value = [light value from sensor x modifier x multiplier] + offset

Object 21 can be used to lock sending of the current light value. This allows you to send either the current value or a value specified in the parameters.

13.2 External light value

An external sensor can also be integrated and assessed via KNX for internal light control/regulation. The actual value for controlling/regulating is then:

Value = actual light value + [external light value x modifier x multiplier]

13.3 Internal light value

You can also check light control/regulation by using objects 23 and 24 to output the internal light value directly from the sensor without factor or offset values. This value is always sent along with the current light value via communication object 25.

14. ALARM

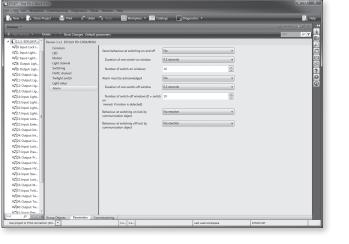
The alarm function can be set to react differently or the same at switch ON and switch OFF.

The alarm output (object 45) can be locked using object 43. Options for behaviour at switching lock ON or OFF via object 43 include "no reaction", "switch OFF", "switch ON".

The number of detected movements within a time frame can be set.

ESYLUX GmbH An der Strusbek 40, 22926 Ahrensburg/Germany Internet: www.esylux.com e-mail: info@esylux.com

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OPERATING INSTRUCTIONS

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