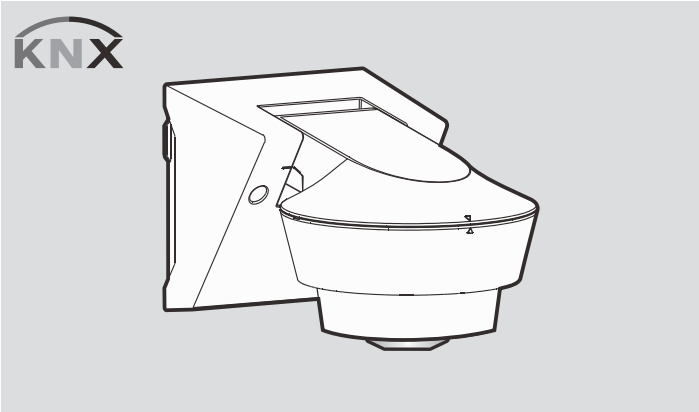


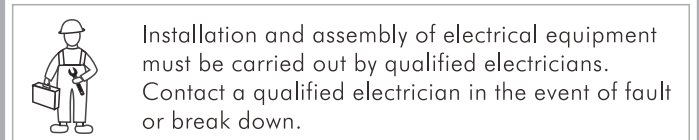
OUTDOOR PIR MOTION DETECTOR
for KNX Home & Building Control System
OS-360i-KNX



INSTRUCTION MANUAL

TECHNICAL SPECIFICATIONS

Rated Voltage	21 - 30VDC (supply by KNX bus)
Current Consumption EIB / KNX	Operate: Approx. 10mA Standby: Approx. 5mA
Connection Type	Bus connection terminal Φ0.8mm, single core
Output	5 channels (2 channels for lighting, 2 channels for HVAC and 1 channel for alarm)
Settings	Settable by ETS or IR-11 KNX remote control
Detection Range	360°, up to Φ32m (R=1.6m) at height of 2.5m
Sensitivity	Adjustable via ETS in 4 steps or IR-11 KNX remote control (PIR motion detecting function can be disabled by ETS)
Light Measuring	10 - 2000Lux
Operating Temperature	-20°C to +50°C
Environmental Protection	IP55 (wall mount) IP54 (ceiling mount)
Material and Colour	Plastic, white
Standard and Safety	EN 61000-6-1 / EN 61000-6-3 / EN 55014 / EN 50491



CAUTION!

- Do not mount on conductive surface.
- Do not open the enclosure frequently.
- Circuit of OS-360i-KNX is a low voltage circuit. Never connect it with standard 220V circuit or put it into a same Wiring Tube with the circuit.

1 PACKAGE CONTENTS

Pattern			
Item	Detector	Lens shield	Wood screw Φ4 x 25.4mm
Quantity	1	3	2

Pattern		
Item	Anchor	Manual
Quantity	2	1

Accessories for optional purchase

Pattern			
Item	Corner mounting bracket	Wood screw Φ4x10mm	IR-11 KNX Remote control
Quantity	1	2	1

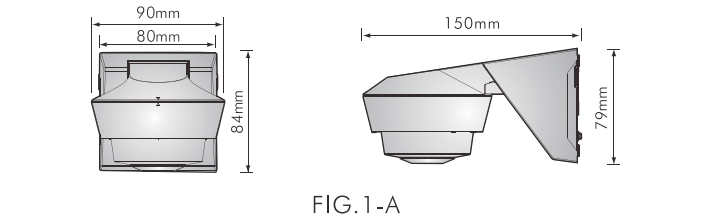
2 PRODUCT DESCRIPTION

2.1 Features

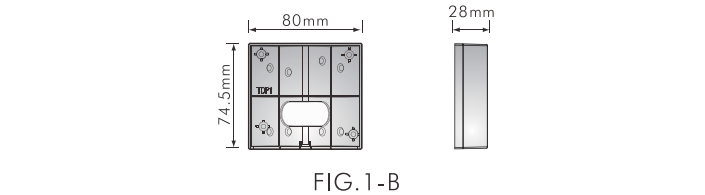
- The motion detector is used to control objects, such as: Lighting, HVAC, Alarm.
- For use in KNX (EIB), TP (twisted pair) bus system in conjunction with other KNX components.
- Parameter and function settings via ETS5.0 (Engineering Tool Software) or IR-11 KNX remote control.
- User friendly design of un-falling mounting base and plug-in terminal block for installation conveniently.
- The IR remote control is available for quick and convenient setting (for optional purchase).

2.2 Dimension (See FIG. 1-A & FIG. 1-B & FIG. 1-C)

Wall mount: 150 x 90 x 84mm



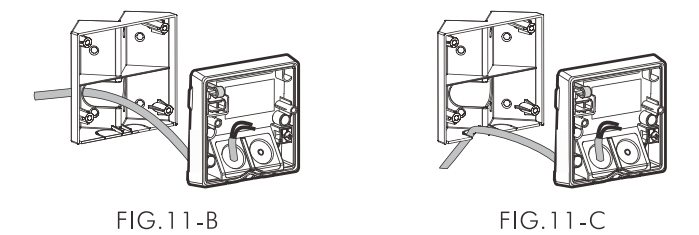
Wall corner mounting bracket (Optional purchase):
80 x 74.5 x 28mm



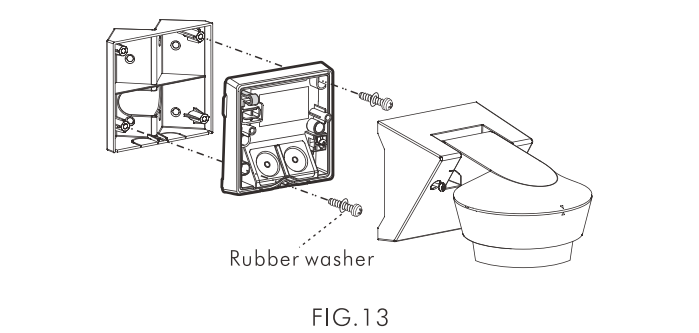
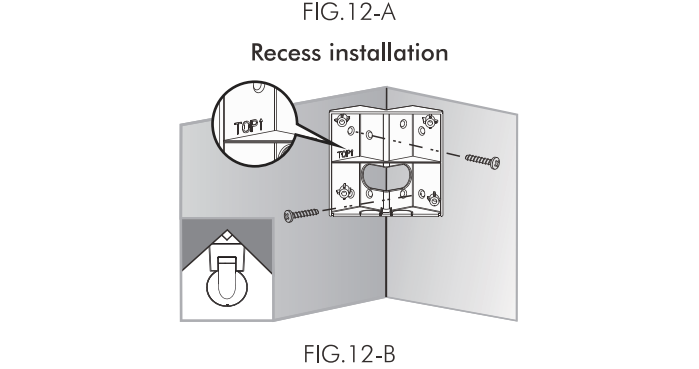
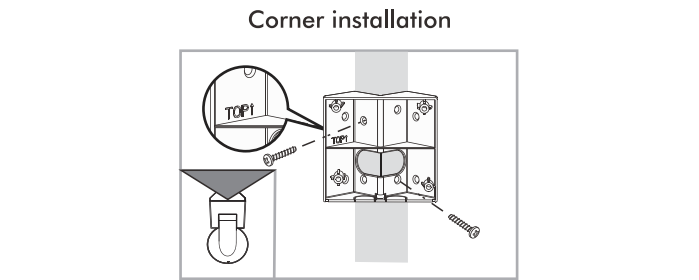
Installation and assembly of electrical equipment must be carried out by qualified electricians. Contact a qualified electrician in the event of fault or break down.

CAUTION!

- Do not mount on conductive surface.
- Do not open the enclosure frequently.
- Circuit of OS-360i-KNX is a low voltage circuit. Never connect it with standard 220V circuit or put it into a same Wiring Tube with the circuit.



3.4.2.2 Break the desired screw knock-outs (See FIG. 11-A). Then fix the mounting bracket onto recesses/corner with wood screws (See FIG. 12-A& FIG. 12-B), and fix bottom cover on mounting bracket (See FIG. 13). Refer to FIG. 5 to connect power cables, then fix the detector head to the bottom cover and adjust the detector head to be in the correct position.



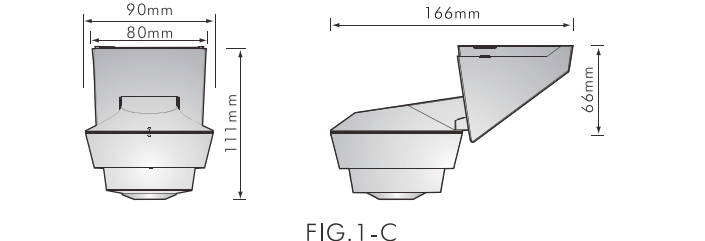
3.4.3 Wall / ceiling mount with European standard junction box

3.4.3.1 Pull out cables from European standard junction box (See FIG. 14-A) then strip off 5 - 6mm of cable sheathing for wiring.

3.4.3.2 Feed the electric cables through rubber gasket (See FIG. 5-B) and refer to FIG. 5-A for correct wiring. Then fit the bottom cover on the European standard junction box firmly by two screws (See FIG. 7 to FIG. 14-B).

3.4.3.3 Fix the detector head to the bottom cover (See FIG. 14-B) and adjust the detector head to be in the correct position.

Ceiling mount: 166 x 90 x 111mm



3 INSTALLATION AND WIRING

Please disconnect power completely and read the entire instruction manual carefully before installation.

3.1 Select a proper location

3.1.1 This detector can be mounted at the height of 2 - 3m, the recommended installation height is 2.5m to gain the optimal detection range up to a radius of 1.6m and 360° angle (See FIG. 2-A & FIG. 2-B).

Ceiling mount:

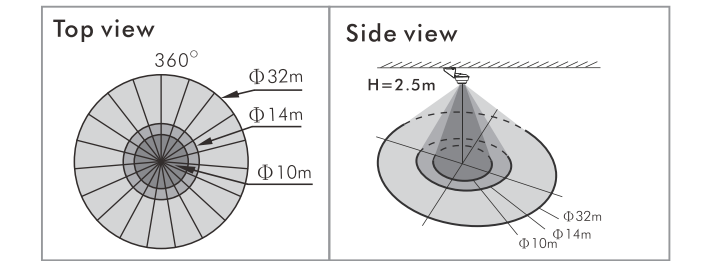


FIG. 2-A

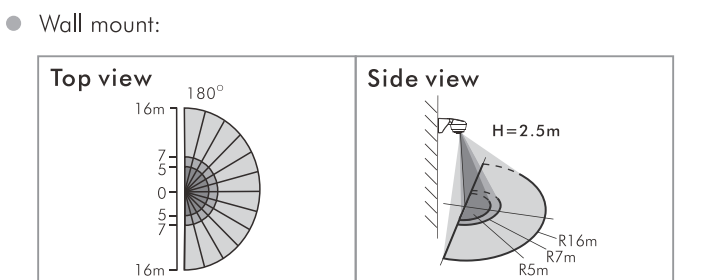


FIG. 2-B

Wall mount:

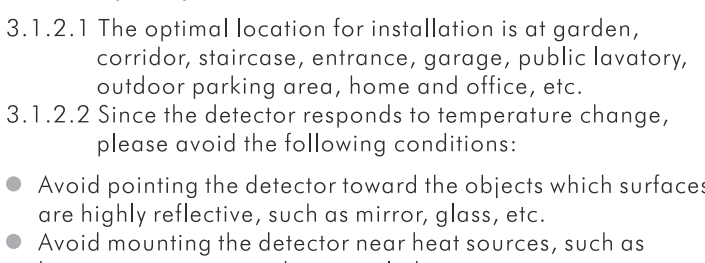


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Button	Function
	Adjustment on sensitivity of detector 1. By pressing or buttons to set the sensitivity of detector. Each time the user presses the button, the sensitivity of sensor would increase or decrease 25% with indication of red LED flashing. 2. By pressing button to increase the sensitivity of detector. 3. By pressing button to decrease the sensitivity of detector. 4. When the sensitivity of detector is at its highest or lowest level which is confirmed by red LED keeping on for approx. 2sec. Note: It only can be used to adjust the sensitivity of PIRs for forward detection, and the sensitivity of look-down PIR can't be adjusted.

6.3 Trouble shooting of IR-11KNX

When remote controller IR-11KNX works abnormally, please check assumptive problems and suggested solutions in following chart that hopefully solve your problem.

Problem	Possible cause	Suggested solution
Detector fails to receive signal	1. Exceed the transmission range. 2. Low battery power. 3. Detector works abnormally.	1. Operate within transmission range (<10m), and ensure IR-11KNX aiming directly to the detector. 2. Replace a new battery. 3. Check the trouble of detector, then refer the TROUBLE SHOOTING of detector manual for repairing.
No signal	1. Low battery power. 2. Press two or more buttons once. 3. The battery insulation sheet is not took out.	1. Replace a new battery. 2. Press one button once. 3. Take out the battery insulation sheet.
Fail to transmit signal	In locked mode.	Unlock IR-11KNX.

PART II ETS Software Settings

The database of OS-360i-KNX is designed by ETS5.0, please refer to the following introduction for the interface and the application parameter of function.
Detector has five output channels; they are Light control output C1, Light control output C2, HVAC control output C3, HVAC control output C4 and Alarm function. Each channel is independent and C1 / C2 is the same channel; C3 / C4 is the same channel, so that it is enough to know C1, C3 and alarm function. Please refer to the following description for the detailed information .

Menu	Function	
Auto/ Semi-auto select Default: Auto	Auto	Under auto mode, the load will turn on automatically when 4 bit movement is detected and the ambient light level is below the Lux setting value. When movement is no longer detected and the delay time has expired, the load will turn off automatically.
	Semi-auto	Under semi-auto mode, load can only be manually switched on by operating the connected external push button. When the load is switched on, it will keep be on if the movements are detected constantly. Load will turn off only when movement is no longer detected and the delay time has expired.
HVAC switch-'ON' delay Default: 1min	This parameter is used to set the detector to send an ON telegram after detecting the presence of a person for a period of time. For example, when motion is detected, the channel will not be activated immediately, and will only be activated when motion is still detected after the Switch-on delay expires. Example: If the channel is used to control the fans in the classroom, you can set a delay start time of 2 minutes. If the classroom is briefly occupied, the fan will not be switched on, and if motion is detected after 2 minutes later, the fan will be switched on.	
	0 - 30min	Click this menu can set the switch on delay parameter of HVAC.
HVAC delay time Default: 5min	5sec - 60min	Click the menu of delay off time in the edit interface to set the desired value for HVAC control output C3.
Behaviour at switching on lock by communication object Default: No reaction	No reaction	It is used to set the output status of detector when it is triggered and switched on.
	Switch off	Click the menu can set the operation mode when HVAC is switched on.
	Switch on	
Behaviour at switching off lock by communication object Default: No reaction	No reaction	It is used to set the output status of detector when it isn't triggered and switched off.
	Switch off	Click the menu can set the operation mode when HVAC is switched off.
	Switch on	

Note: The ETS setting logic for C4 is the same as for C3.

1 PARAMETER SETTING

1.1 General-Master

The screenshot shows the 'General' tab of the parameter setting window. It includes sections for 'Motion sensors' (with 'The device type is' set to Master), 'Light control output C1' (with 'Input Slave' set to Light output C1), and 'HVAC control output C3' (with 'Light control output C1' set to Diisable). There are also checkboxes for 'Light control output C2' and 'HVAC control output C4', all set to 'Diisable'.

FIG.20 "General-Master" parameter windows

In the parameter of the general windows can setup some common functions.

Menu	Function	
The device type is Default: Master	Slave function	The function of the detector is set as a master or slave device Detector is set to: (Both master and slave detector are applied)
	Master	When detector is enabled for master detector, all the functions are workable, also can receive the triggering signal from one or more slave detectors. However, the signal reception channel can be selected refer to the requirement.
	Slave	When detector is enabled for slave detector, it is used exclusively to extend the field of detection. Presence is transmitted to the Master for evaluation according to the set parameters.
Input Slave Default: Light output C1	Set C1 - C4	to receive slave signal or not.
	Light output C1	Assign channel to receive the signal from slave detector. Please refer to above mentioned section "Master/slave" for detailed information.
	Light output C2	
	HVAC output C3	
	HVAC output C4	
Light control output C1 Default: Enable	When "Enable" the light control output C1, the relevant setting interface is shown, otherwise it is hidden.	
	Disable	Disable light control output C1 interface functions;
	Enable	Activate the Light control output C1 interface function;
Light control output C2 Default: Disable	When "Enable" the light control output C2, the relevant setting interface is shown, otherwise it is hidden.	
	Disable	Disable Light control output C2 interface functions;
	Enable	Activate the Light control output C2 interface function;
HVAC control output C3 Default: Enable	When "Enable" the light control output C3, the relevant setting interface is shown, otherwise it is hidden.	
	Disable	Disable HVAC control output C3 interface functions;
	Enable	Activate the HVAC control output C3 interface function;

Menu	Function	
HVAC control output C4 Default: Disable	When "Enable" the light control output C4, the relevant setting interface is shown, otherwise it is hidden.	
	Disable	Disable HVAC control output C4 interface functions;
	Enable	Activate the HVAC control output C4 interface function;
Alarm function Default: Disable	When "Enable" the alarm function output, the relevant setting interface is shown, otherwise it is hidden.	
	Disable	Disable Alarm interface functions;
	Enable	Activate the Alarm interface function;

1.2 General-Slave

The screenshot shows the 'General' tab of the parameter setting window for a slave device. It includes sections for 'Motion sensors' (with 'The device type is' set to Slave), 'Sensor sensitivity (Front area)' (set to Maximum), and 'Sensor sensitivity (Lower area)' (set to Maximum). There are also checkboxes for 'LED ON when PIR triggered', all set to 'Enable'.

FIG.21 "General-Slave" parameter windows

Menu	Function	
Sensor sensitivity (Front area) Default: Maximum	It is used to increase or decrease the sensitivity of PIR for front area fixed in detector. The sensitivity can be adjusted according to user's requirement no matter the detector is master or slave.	
	Maximum	Highest sensitivity.
	High	Higher sensitivity.
	Medium	Medium sensitivity.
	Low	Lowest sensitivity.
	OFF	Deactivate the detecting function of PIR for front area.
Sensor sensitivity (Look-down area) Default: Maximum	It is used to increase or decrease the sensitivity of PIR for look-down area fixed in detector. The sensitivity can be adjusted according to user's requirement no matter the detector is master or slave.	
	Maximum	Highest sensitivity.
	High	Higher sensitivity.
	Medium	Medium sensitivity.
	Low	Lowest sensitivity.
	OFF	Deactivate the detecting function of PIR for look-down area.
LED turns on when PIR is triggered Default: Enable	It is used to set if switching on the LED for indication when PIR is triggered.	
	Disable	Waive the LED indicating function when PIR is triggered. But other LED indicating functions are remained.
	Enable	LED will turn on for 1 sec for indication when PIR is triggered.

1.3 Motion sensor

The screenshot shows the 'Motion sensors' tab of the parameter setting window. It includes sections for 'External switch as ON/OFF Dim input' (set to NO), 'Light control output C1' (set to Diisable), and 'HVAC control output C3' (set to Diisable). There are also checkboxes for 'LED ON when PIR triggered', all set to 'Enable'.

FIG.22 "Motion sensor" parameter windows

Menu	Function	
External switch as ON / OFF / Dim input Default: NO	NO	Disable this feature.
	YES	Enable this feature.
Lux / Time / Sensitivity (Meter) / STBY selected by Default: ETS	ETS	The parameter of Lux, Time, Sensitivity (Meter), STBY of detector is controlled by ETS software or IR remote control. Note: It is valid only for C1 and C2.
	ETS	When the control mode is set to "ETS", all the parameters on detector can only be changed by software ETS after completing the object build up. Also, the setting values on detector set by IR-11 KNX is invalid.
	IR	When the control mode is set to "IR control", all the parameters on detector can be changed by IR-11 KNX. Such as changing the delay off time value, switch on Lux value, etc.
Test mode Default: Disable	Disable	Test mode is activated after download the program and exited automatically 10min later, and then enters into auto mode or semi-auto mode according to the setting item of "Auto-Semi-auto select".
	Enable	Test mode function is disabled.
Sensor sensitivity (Front area) Default: Maximum	It is used to increase or decrease the sensitivity of PIR for front area fixed in detector. The sensitivity can be adjusted according to user's requirement no matter the detector is master or slave.	
	Maximum	Highest sensitivity.
	High	Higher sensitivity.
	Medium	Medium sensitivity.
	Low	Lowest sensitivity.
	OFF	Deactivate the detecting function of PIR for front area.
Sensor sensitivity (Look-down area) Default: Maximum	It is used to increase or decrease the sensitivity of PIR for look-down area fixed in detector. The sensitivity can be adjusted according to user's requirement no matter the detector is master or slave.	
	Maximum	Highest sensitivity.
	High	Higher sensitivity.
	Medium	Medium sensitivity.
	Low	Lowest sensitivity.
	OFF	Deactivate the detecting function of PIR for look-down area.

Menu	Function	
LED turns on when PIR is triggered Default: Enable	It is used to set if switching on the LED for indication when PIR is triggered.	
	Disable	Waive the LED indicating function when PIR is triggered. But other LED indicating functions are remained.
	Enable	LED will turn on for 1 sec for indication when PIR is triggered.

1.4 Light control output C1 / C2 - Switching

The screenshot shows the 'Light control output C1' parameter window. It includes sections for 'Output type' (set to Switching), 'When Lux/Time/Meter/STBY selected by' (set to ETS), and 'Switch ON Lux value' (set to 2000Lux). There are also checkboxes for 'Lighting delay time' (set to Sec).

FIG.23 "Light control output C1 / C2 - Switching" parameter windows

Menu	Function	
Auto/ Semi-auto select Default: Auto	Auto	It is used to activate / deactivate Auto mode or Semi-auto mode of Light control output C1.
	Semi-auto	Under auto mode, the load will turn on automatically when 4 bit movement is detected and the ambient light level is below the Lux setting value. When movement is no longer detected and the delay time has expired, the load will turn off automatically.
	Semi-auto	Under semi-auto mode, load can only be manually switched on by operating the connected external push button. When the load is switched on, it will keep be on if the movements are detected constantly. Load will turn off only when movement is no longer detected and the delay time has expired.
Output type Default: Switching	Switching	It is used to set the output type of detector to be Switching or Dimming.
	Switching	Set the output type of C1 to switching so that it can connect the switching actuator for ON/OFF operation.
	Dimming	Set the output type of C1 to dimming so that it can connect the dimming actuator for the operation of output with absolute brightness, standby brightness and/or constant brightness control.
Switch ON Lux value Default: 2000Lux	5Lux 1 2000Lux Infinity	Click the menu of Lux value in the edit interface to set the desired switch on Lux value for Light control output C1.
Lighting delay time Default: 5min	5sec 1 60min.	Click the menu of delay off time in the edit interface to set the desired value for Light control output C1.

1.5 Light control output C1 / C2 - Dimming

The screenshot shows the 'Light control output C1' parameter window. It includes sections for 'Output type' (set to Switching), 'When Lux/Time/Meter/STBY selected by' (set to ETS), and 'Switch ON Lux value' (set to 2000Lux). There are also checkboxes for 'Lighting delay time' (set to Sec).

FIG.24 "Light control output C1 - Dimming" parameter windows

Menu	Function	
Dimming value during ON phase Default: 100%	It is used to set the initial value while switching on the lighting.	
	1% - 100%	Output setting of absolute brightness

1.6 Light control output C1 / C2 - Standby values

The screenshot shows the 'Light control output C1' parameter window. It includes sections for 'Output type' (set to Switching), 'When Lux/Time/Meter/STBY selected by' (set to ETS), and 'Switch ON Lux value' (set to 2000Lux). There are also checkboxes for 'Lighting delay time' (set to Sec).

FIG.25 "Light control output C1 - Standby values" parameter windows

Menu	Function	
Light standby time Default: Disable	Select "Disable" means deactivating the standby light function and load will turn off directly when the delay time is elapsed.	
	Disable	Deactivate the standby light function and load will turn off directly when the delay time is elapsed.
	Enable	Activate the standby light function and detector enters into standby light control mode when the delay time is elapsed.
Standby time Default: 5min	It is used to set standby brightness delay time and select STBY time via drop-down list.	
	30sec - 60min	Click the menu of standby delay off time in the edit interface to set the desired value for Light control output C1.
Standby brightness Default: 10%	It is used to set standby brightness and select STBY light via drop-down list.	
	1% - 60%	Click the menu of standby brightness in the edit interface to set the desired value for Light control output C1.

1.7 Light control output C1 / C2 - Constant light

The screenshot shows the 'Light control output C1' parameter window. It includes sections for 'Output type' (set to Switching), 'When Lux/Time/Meter/STBY selected by' (set to ETS), and 'Switch ON Lux value' (set to 2000Lux). There are also checkboxes for 'Lighting delay time' (set to Sec).

FIG.26 "Light control output C1 - Constant light" parameter windows

Menu	Function	
Constant light control Default: Disable	Disable	Deactivate the constant light control function;
	Enable	Activate the constant light control function;
Preset setpoint Default: 300Lux	It is used to set the pre-set Lux value for constant light control function and only can be set by ETS.	
	10Lux - 2000Lux	The preset setpoint in Lux for constant light control can be preset by ETS.
Lux deviation Default: 10Lux	It is used to set the deviate value of constant dimming function, that is the detector will react refer to what the deviation of the ambient light level is.	
	0 - 255Lux	The deviation of dimming up / down the ambient light level.
Time after switch-on until constant light control starts Default: 1min	It is used to set the standby time of starting to execute the constant light control function after the load is switched on.	
	1 sec - 5min	It executes the standby time of constant dimming, it is mainly used to set the time of lighting from power on to stable.

Note: The ETS setting logic for C2 is the same as for C1.

1.8 HVAC control output C3 / C4

The screenshot shows the 'HVAC control output C3' parameter window. It includes sections for 'Output type' (set to Switching), 'When Lux/Time/Meter/STBY selected by' (set to ETS), and 'Switch ON Lux value' (set to 2000Lux). There are also checkboxes for 'Lighting delay time' (set to Sec).

FIG.27 "HVAC control output C3" parameter windows

No.	Name	Object Function	Description	Group	Address	Length	C	R	W	T	Data Type	Priority
H21	Slave input	Slave motion		1.00	C	4	1	1	1	1	Trigger	Low
H22	Test output	ON/OFF		1.00	C	4	1	1	1	1	switch	Low
H23	C1 manual input	ON/OFF/Dim		1.00	C	4	1	1	1	1	switch	Low
H24	C2 manual input	ON/OFF/Dim		1.00	C	4	1	1	1	1	switch	Low
H25	C3 manual input	ON/OFF		1.00	C	4	1	1	1	1	switch	Low
H26	C4 manual input	ON/OFF		1.00	C	4	1	1	1	1	switch	Low
H27	C1 Light control output	ON/OFF		1.00	C	4	1	1	1	1	switch	Low
H28	C1 Light control dimming value	ON/OFF		1.00	C	4	1	1	1	1	switch	Low
H29	C1 Light control dimming time	ON/OFF		1.00	C	4	1	1	1	1	switch	Low
H30	C1 Constant light control	ON/OFF		1.00	C	4	1	1	1	1	3-bit controlled, dimming	Low
H31	C2 Constant light control	ON/OFF		1.00	C	4	1	1	1	1	3-bit controlled, dimming	Low
H32	C3 Constant light control	ON/OFF		1.00	C	4	1	1	1	1	3-bit controlled, dimming	Low
H33	C4 Constant light control	ON/OFF		1.00	C	4	1	1	1	1	3-bit controlled, dimming	Low
H34	C1 HSLC control output	ON/OFF		1.00	C	4	1	1	1	1	switch	Low
H35	C1 HSLC control output	ON/OFF		1.00	C	4	1	1	1	1	switch	Low
H36	Alarm output	ON/OFF	100% 100%...	1.00	C	4	1	1	1	1	alarm	Low