

INTERRA

ITR410-002 – WIDE RANGE CEILING MOUNT PASSIVE INFRARED SENSOR

Product Manual



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1.) PRODUCT DESCRIPTION

ITR410-002 Ceiling Mount Passive Infrared & Lux Sensor is able to sense motion, temperature, and lighting intensity. Designed to be ceiling mounted the Passive Infrared Sensor is able to detect a presence at up to 24meters away, making it ideal for lighting and security applications. Database uploads to the product are done with ETS3.0 and later versions. The device is manufactured in accordance with electromagnetic compatibility (EMC), electrical safety and environmental conditions. For a tailored detection solution the Passive Infrared Sensor detection area can be partitioned via ETS software, enabling custom detection zones to be created.

1.1.) TECHNICAL INFORMATION

Device	ITR410-002
Power Supply	EIB Power Supply
Current Consumption	10 mA (static) 15 mA (dynamic)
Power Consumption****	150 mW (bekleme) 450 mW (çalışma)
Inputs	2x Dry Contact Inputs
Type of Protection	IP 20
Temperature Range	Operation (– 5°C ...45 °C) Storage (– 25°C ...60 °C)
Maximum Air Humidity	<90 RH
Flammability	Non-flammable Product
Color	Light Grey and White
Dimensions	63 x 46.6 (DxH)
Certificaton	KNX Certified
Configuration	Configuration with ETS

1.2.) PRODUCT FUNCTIONS

- The multi-function motion sensor can report movement status, temperature, Lux or dry contacts status to KNX system.
- The 24M Sensor detect range can be up to 22 meters, recommended assembly height is 2.5 m.
- The multi-function motion sensor supports constant brightness output.
- It can controls for Switch control, Absolute dimming control, Shutter control, Alarm control, Percentage control , Sequence control, Scene control, String control, Logic combination control.
- With function of constant brightness: keep the lux in the constant value, will dim the lights to the corresponding intensity according to the surrounding brightness.
- The logic validity can be set by dry contact or external telegram, enable end-user to enable or disable the preset logics.
- The work mode include single mode and Master & Slave mode. One master sensor can be used in conjunction with multiple slave sensors, When slave sensor detects the movement, will send the data to master sensor, then the master sensor will control the targets.

1.3.) PRODUCT DIMENSIONS

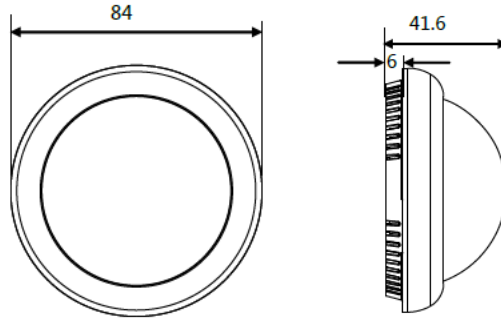


Fig 1 : Front and Side Appearances and Measures of the Device.

The numerical values showing the dimensions above are in mm.

1.4.) CONNECTION DIAGRAM AND PROGRAMMING

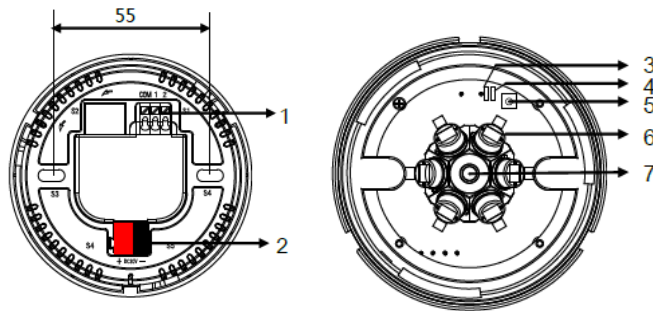


Fig 2 : KNX Connector, Programming LED ve Button.

1.	Dry contact, from left are Com, dry contact 1, dry contact 2.
2.	KNX/EIB interface.
3.	Programming LED (VE7): For indicating normal mode (LED Off) or addressing mode (LED On); it is automatically Off once the physical address has been modified. or idle mode (LED Off).
4.	Working LED (VE8): detect any movement LED will ON. The LED state can be set.
5.	Programlama button.
6.	IR detectors: each detector has specified number that could be set enable or disable individually for different zone detect. The specified number are S1, S2, S3, S4, S5, S6.
7.	LUX sensor.

Table 1 : Connection Diagram and Descriptions

1.5.) Passive Infrared Sensing Ranges

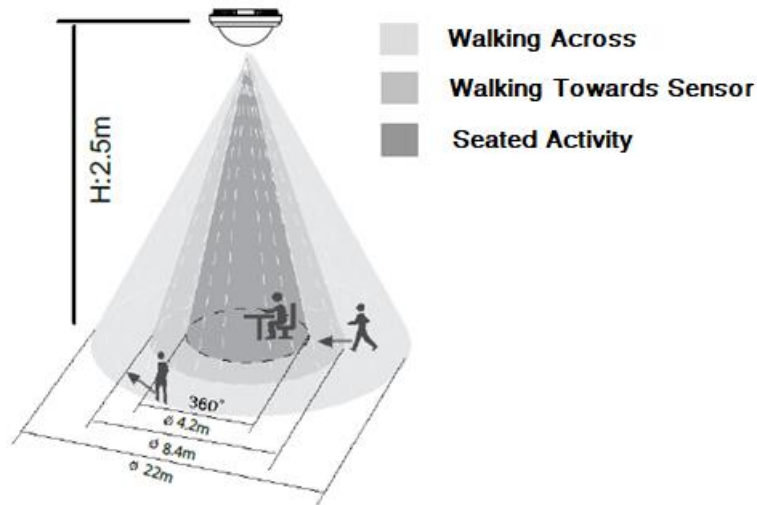


Fig 3 : Passive Infrared Sensor Detection Diagram.

Mounting Height	Seated Activity & Very Slight Movement	Walking Across with Small Steps	Walking Across
2.5m	4.2m	8.4m	22m
3m	4.6m	9.6m	23.2m
4m	5.2m	10.6m	24.8m
5m	6.7m	11.5m	27.6m

Table 1 : Passive Infrared Sensor Detection Ranges.

The above table shows the detection distances of the ITR410-002 Wide Range Passive Infrared Sensor according to the height at which it is installed. As the height level of the installation increases, the distance that the sensor can detect increases. The position and height where the sensor is to be placed are important in this respect.

2.) MOUNTING

ITR410-002 installation steps of the Wide Range Ceiling Mount Passive Infrared Sensor are described below.

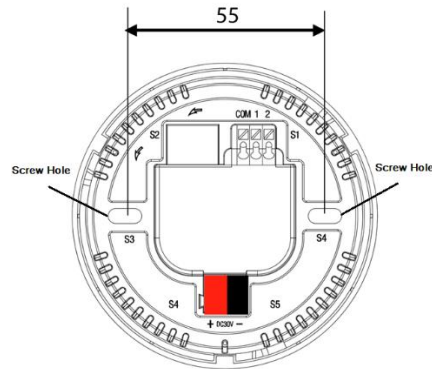


Fig 4 : Screw Holes Used in Mounting the Device

Mounting of the Screw

The sensor can be mounted with screws to thick walls, wooden ceiling or special. When attaching the sensor with the screw, the tightening torque should not exceed 0.3Nm.

3. ETS PARAMETERS AND OBJECTS

3.1. GENERAL PARAMETER PAGE

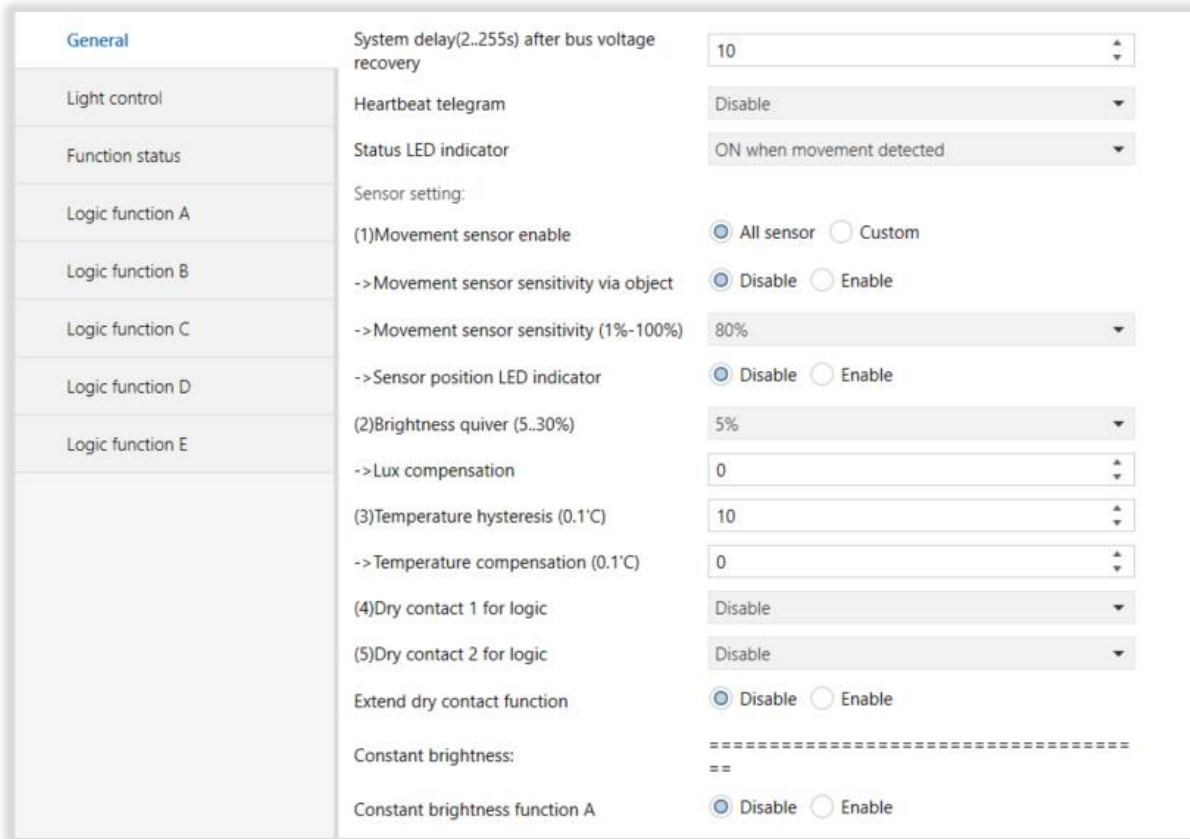


Fig 5 : General Parameter Page

3.1.1. Parameters List

PARAMETERS	DESCRIPTION	VALUES
System delay(2..255s) after bus voltage recovery	This parameter, is used for set the delay time for the device after power on.	2..10..255
Heartbeat telegram	This parameter, is used to send cyclically heartbeat telegrams. If the value is 0, the device will send 0 cyclically. If the value is 1, the device will send cyclically. Also, if the value is 0/1, the device will send alternately 0 and 1 value cyclically.	Disable Send value 0 cyclically Send value 1 cyclically Send value 0/1 inverted cyclically
Telegram is sent time interval (1..65535s)*1	This parameter, allows sending the telegram cyclically after time out.	1..5...65535s
Status LED indicator	This parameter, is used to configure the LED indicator.	Always is OFF

	<p>Always is OFF: The status of the LED indicator is always OFF.</p> <p>ON when movement detected: The status of the LED indicator is ON when a motion is detected.</p> <p>ON when received '1' / '0', else is OFF: When one of '1' / '0' value is taken, the status of the LED indicator is ON, otherwise it is OFF.</p> <p>ON when logic A / B / C / D is lock / unlock: The LED indicator status is ON when A / B / C / D / E logic is locked / unlocked, otherwise OFF.</p>	<p>ON when movement detected</p> <p>ON when received '1', else OFF</p> <p>ON when received '0', else OFF</p> <p>ON when logic A is lock, else OFF</p> <p>ON when logic A is unlock, else OFF</p> <p>ON when logic B is lock, else OFF</p> <p>ON when logic B is unlock, else OFF</p> <p>ON when logic C is lock, else OFF</p> <p>ON when logic C is unlock, else OFF</p> <p>ON when logic D is lock, else OFF</p> <p>ON when logic D is unlock, else OFF</p> <p>ON when logic E is lock, else OFF</p> <p>ON when logic E is unlock, else OFF</p>
<p>(1) Movement sensor enable</p>	<p>This parameter, is used to set the number of motion sensors.</p>	<p>All sensor</p> <p>Custom</p>
<p>All sensor:</p> <p>-> Movement sensor sensitivity via object</p> <p>-> Movement sensor sensitivity (1%...100%)</p>	<p>This parameter, is used to enable or disable the change of motion sensor sensitivity via the bus line.</p> <p>This parameter, is used to set the sensitivity value of the motion sensor.</p>	<p>Disabled</p> <p>Enabled</p> <p>-> 1%...80%...100%</p>

<p>Custom:</p> <p>-> Sensor 1</p> <p>--> Sensor 1 sensitivity(1%...100%)</p> <p>.</p> <p>.</p> <p>.</p> <p>-> Sensor 6</p> <p>--> Sensor 6 sensitivity(1%...100%)</p> <p>-> Movement sensor enable via object.</p> <p>-> Movement sensor sensitivity via object.</p>	<p>-> This parameter, is used to activate or deactivate the sensor 1.</p> <p>--> This parameter, is used to set the sensitivity value of sensor 1.</p> <p>-> This parameter, is used to activate or deactivate the sensor 6.</p> <p>--> This parameter, is used to set the sensitivity value of sensor 1.</p> <p>-> This parameter, is used to activate or deactivate the motion sensor via the bus line.</p> <p>-> This parameter, is used to enable or disable changing the sensitivity of the motion sensor via the bus line.</p>	<p>-> - Disable - Enable</p> <p>--> 1%...80%...100%</p> <p>.</p> <p>.</p> <p>.</p> <p>-> - Disable - Enable</p> <p>--> 1%...80%...100%</p> <p>-> - Disable - Enable</p> <p>-> - Disable - Enable</p>
<p>-> Sensor position LED indicator</p>	<p>This parameter, is used to enable or disable the sensor position LED display.</p>	<p>Disable</p> <p>Enable</p>
<p>(2) Brightness quiver (5...30%)</p>	<p>This parameter, is used to adjust the brightness vibration.</p> <p>If the brightness change remains in the adjustment range while in the effective brightness range, the status does not change. If the brightness within the effective range is between the setting range $\text{threshold}_1 * (1-n\%)$ and $\text{threshold}_2 * (1 + n\%)$, the state will change because there is a change in the value greater than the range. If the brightness is not within the effective range, only the brightness changes to be effective within the threshold.</p>	<p>5%, 10%, 15%, 20%, 25%, 30%</p>
<p>-> Lux compensation</p>	<p>This parameter, is used to compensate the Lux value.</p>	<p>-200...0...+200</p>
<p>(3) Temperature hysteresis (0.1°C)</p>	<p>This parameter, is used to set the temperature hysteresis value.</p>	<p>1..10...50</p>
<p>-> Temperature compensation 0.1°C</p>	<p>This parameter, is used to compensate the temperature value. When the presence detector detects the temperature error, you can set the temperature compensation. Value '0' means no compensation.</p>	<p>-100...0...100</p>
<p>Dry contact 1 for logic</p>	<p>This parameter, is used to set the operating mode of dry contact 1.</p>	<p>Disable</p> <p>Mechanical switch</p> <p>Electronic switch</p>

<p>Mechanical switch:</p> <p>-> Status when closing the contact</p> <p>-> Status when opening the contact</p>	<p>Mechanical switch mode:</p> <p>This parameter, is used to set the state when contact 1 is closed.</p> <p>This parameter, is used to set the state when contact 1 is opened.</p>	<p>-> - Unchanged</p> <p>- Toggle</p> <p>-Constant to true('1')</p> <p>-Constant to false('0')</p> <p>-> - Unchanged</p> <p>- Toggle</p> <p>-Constant to true('1')</p> <p>-Constant to false('0')</p>
<p>Electronic switch:</p> <p>-> Button value when voltage recovery</p> <p>-> Status button when short button operation</p> <p>-> Status button when long button operation</p> <p>-->> Long button time after 0.1s(0.2...20s)</p>	<p>This parameter, is used to set the button status after voltage recovery.</p> <p>This parameter, is used to set the button status when the button is pressed short.</p> <p>This parameter, is used to set the button status when the button is pressed long.</p> <p>This parameter, is used to set the long press time.</p>	<p>-> - Last value</p> <p>- Value is true('1')</p> <p>- Value is false('0')</p> <p>-> - Invalid</p> <p>- Toggle</p> <p>- Constant to true("1")</p> <p>- Constant to false("0")</p> <p>-> - Invalid</p> <p>- Toggle</p> <p>- Constant to true("1")</p> <p>- Constant to false("0")</p> <p>-->>2...10...200ms</p>
<p>Dry contact 2 for logic</p>	<p>This parameter, is used to set the dry contact 2 operating mode.</p>	<p>Disable</p> <p>Mechanical switch</p> <p>Electronic switch</p>
<p>Extend dry contact function</p>	<p>This parameter, is used to enable or disable the dry contact function.</p>	<p>Disable</p> <p>Enable</p>
<p>Constant brightness function A</p>	<p>This parameter, is used to enable or disable the constant brightness function A.</p>	<p>Disabled</p> <p>Enabled</p>
<p>Constant brightness function B</p>	<p>This parameter, is used to enable or disable the constant brightness function B.</p>	<p>Disabled</p> <p>Enabled</p>

3.2. CONSTANT BRIGHTNESS A/B

General	Lux value from	<input checked="" type="radio"/> Local lux sensor <input type="radio"/> External lux telegram
Light control	->Constant brightness value(0~1200 lux)	100
Function status	Change constant brightness value via bus	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Constant brightness A	Lux quiver(n%): constant brightness lux*((1-n%) and (1+n%))	10%
A: Forced operation	Output setting:	
A: Trigger	Minimum dimming time interval limit(0.1~5.0 s)	1.0 s
Logic function A	Minimum dimming step value limit(1~10%)	1%
Logic function B	Maximum dimming step value limit(1~10%)	5%
Logic function C	Minimum dimming value limit	0%
Logic function D	Maximum dimming value limit	100%
Logic function E	First dimming value of constant brightness after power on	80%
	Operational setting:	
	Constant brightness control after power on	Start
	Constant brightness control start/stop via bus	Disable
	Output dimming value after constant brightness control stoped	Unchanged
	Forced operation	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
	Trigger	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
	PI:u(k)=Kp(Proportional coefficient)[e(k)-e(k-1)]+Ki(integration time)e(k)	
	Dimming speed (for PI)	Middle(Ki=15%,Kp=15%)

Fig 6 : Constant Brightness A Parameter Page

3.2.1. Parameters List

PARAMETERS	DESCRIPTION	VALUES
LUX value from	This parameter, is used for set the lux value. Local lux sensor: The lux value is depend on the local lux sensor. External lux telegram: The lux value is depend on the external lux telegram.	Local lux sensor External lux telegram
-> Constant brightness value (0-1200 lux)	This parameter, is used to set the constant brightness value.	0...100...1200
Change constant brightness value via bus	This parameter, is used to enable or disable the change constant brightness value via bus.	Enable Disable

Lux quiver(n%): constant brightness lux*((1-n%) and (1+n%))	<p>This parameter, is used to set the lux quiver.</p> <p>If the brightness change remains in the adjustment range while in the effective brightness range, the status does not change. If the brightness within the effective range is between the setting range $\text{threshold}_1 * (1-n\%)$ and $\text{threshold}_2 * (1+n\%)$, the situation will change because there is a change in the value greater than the range. If the brightness is not within the effective range, only the brightness changes to be effective within the threshold.</p>	<p>5%</p> <p>10%</p> <p>15%</p> <p>20%</p> <p>25%</p> <p>30%</p>
Minimum dimming time interval limit (0.1~5.0s)	<p>This parameter, is used for dimming according to the specified range level.</p>	<p>0.1...1...5.0s</p>
Minimum dimming step value limit (1~10%)	<p>This parameter, is used to set the minimum dimming step value limit.</p>	<p>1...10%</p>
Maximum dimming step value limit (1~10%)	<p>This parameter, is used to set the maximum dimming step value limit.</p>	<p>1...5...10%</p>
Minimum dimming value limit	<p>This parameter, is used to set the minimum dimming value.</p>	<p>0...100%</p>
Maximum dimming value limit	<p>This parameter, is used to set the maximum dimming value.</p>	<p>0...100%</p>
First dimming value of constant brightness after power on	<p>This parameter, is used to set the first dimming value for constant brightness when power on.</p>	<p>0...80...100%</p> <p>Last dimming value</p>
Constant brightness control after power on	<p>This parameter, is used to set the parameter for constant brightness control when power on.</p>	<p>Stop</p> <p>Start</p> <p>Recovery</p>
Constant brightness control start/stop via bus	<p>This parameter, is used to set the constant brightness control.</p> <p>Enable('1'-Start/'0'-Stop): If receive the telegram value '1', the constant brightness will be started, if receive the telegram value '0', the constant brightness will be stopped.</p> <p>Enable('1'-Stop/'0'-Start): If receive the telegram value '0', the constant brightness will be started, if receive the telegram value '1', the constant brightness will be stopped.</p> <p>Disable: Constant brightness control will be disabled.</p>	<p>Enable('1'-Start/'0'-Stop)</p> <p>Enable('1'-Stop/'0'-Start)</p> <p>Disable</p>
Output dimming value after constant brightness control stopped	<p>This parameter, is used to set the output dimming value when constant brightness control stopped.</p>	<p>Unchanged</p> <p>0...100%</p>

Forced operation	This parameter, is used to enable or disable the forced operation.	Enable Disable
Trigger	This parameter, is used to enable or disable the trigger operation.	Enable Disable
Dimming speed (for PI)	This parameter, is used to set the dimming speed (for PI control).	Defined Lowest(Ki=1%,Kp=1%) Lower(Ki=5%,Kp=5%) Low(Ki=10%, Kp=10%) Middle(Ki=15%,Kp=15%) Fast(Ki=30%,Kp=30%) Faster(Kp=60%,Ki=60%) Fastest(Kp=100%,Ki=100%)

3.3. A/B FORCED OPERATION

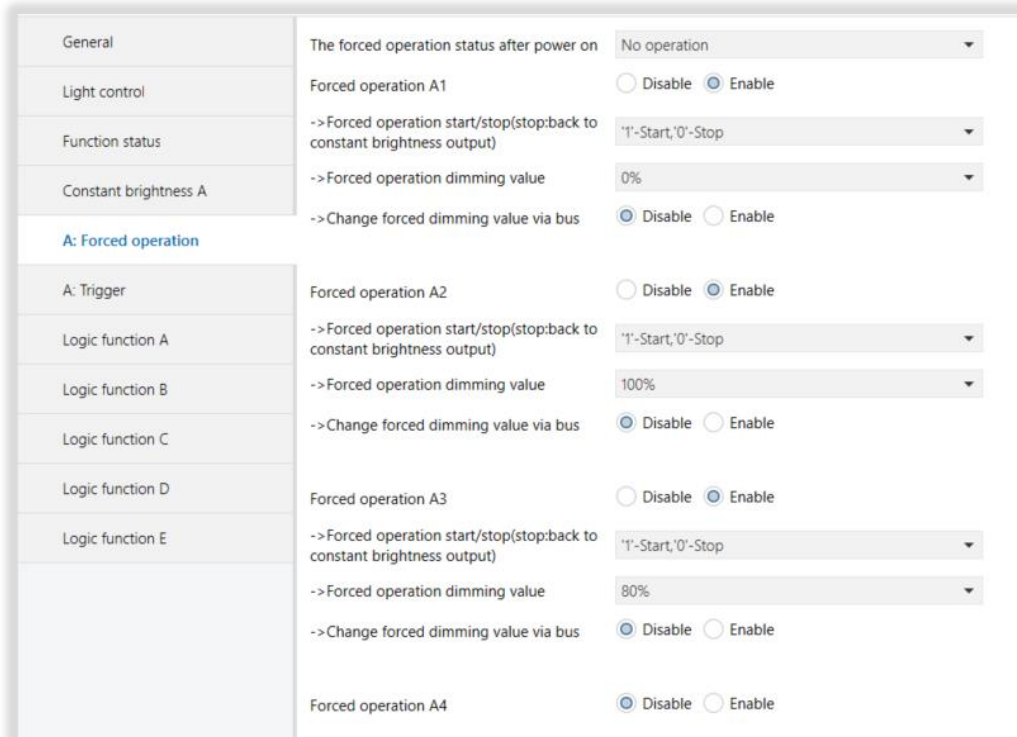


Fig 9 : “A” Forced Operation Parameter Page

3.3.1. Parameters List

PARAMETERS	DESCRIPTION	VALUES
The forced operation status after power on	This parameter, is used to set the forced operation status when after power on.	No operation Last forced operation To forced operation A1 To forced operation A2 To forced operation A3 To forced operation A4
Forced operation A1	This parameter, is used to enable or disable for forced operation A1.	Enable Disable
-> Forced operation start/stop (stop: back to constant brightness output)	This parameter, is used to set for forced operation. '1'-Start, '0'-Stop: If receive telegram value 1 will start, if receive telegram value 0 will stop and back to constant brightness output. '0'-Start, '1'-Stop: If receive telegram value 0 will start, if receive telegram value 1 will stop and back to constant brightness output. '1/0'-Start: If receive telegram value 1 or 0 will start. '1/0'-Stop: If receive telegram value 1 or 0 will stop and back to constant brightness output.	'1'-Start, '0'-Stop '0'-Start, '1'-Stop '1/0'-Start '1/0'-Stop
-> Forced operation dimming value	This parameter, is used to set the dimming value for forced operation.	0...100%
Change forced dimming value via bus	This parameter, is used to enable or disable the changing forced dimming value via bus.	Enable Disable
Forced operation A2	This parameter, is used to enable or disable for forced operation A2.	Enable Disable
-> Forced operation start/stop (stop: back to constant brightness output)	This parameter, is used to set for forced operation. '1'-Start, '0'-Stop: If receive telegram value 1 will start, if receive telegram value 0 will stop and back to constant brightness output. '0'-Start, '1'-Stop: If receive telegram value 0 will start, if receive telegram value 1 will stop and back to constant brightness output. '1/0'-Start: If receive telegram value 1 or 0 will start. '1/0'-Stop: If receive telegram value 1 or 0 will stop and back to constant brightness output.	'1'-Start, '0'-Stop '0'-Start, '1'-Stop '1/0'-Start '1/0'-Stop
-> Forced operation dimming value	This parameter, is used to set the dimming value for forced operation.	0... 100%
Change forced dimming value via bus	This parameter, is used to enable or disable for changing forced dimming value via bus.	Enable Disable

Forced operation A3	This parameter, is used to enable or disable for forced operation A3.	Enable Disable
-> Forced operation start/stop (stop: back to constant brightness output)	This parameter, is used to set for forced operation. '1'-Start, '0'-Stop: If receive telegram value 1 will start, if receive telegram value 0 will stop and back to constant brightness output. '0'-Start, '1'-Stop: If receive telegram value 0 will start, if receive telegram value 1 will stop and back to constant brightness output. '1/0'-Start: If receive telegram value 1 or 0 will start. '1/0'-Stop: If receive telegram value 1 or 0 will stop and back to constant brightness output.	'1'-Start, '0'-Stop '0'-Start, '1'-Stop '1/0'-Start '1/0'-Stop
-> Forced operation dimming value	This parameter, is used to set the dimming value for forced operation.	0... 80 ...100%
Change forced dimming value via bus	This parameter, is used to enable or disable for changing forced dimming value via bus.	Enable Disable
Forced operation A4	This parameter, is used to enable or disable for forced operation A4.	Enable Disable
-> Forced operation start/stop (stop: back to constant brightness output)	This parameter, is used to set for forced operation. '1'-Start, '0'-Stop: If receive telegram value 1 will start, if receive telegram value 0 will stop and back to constant brightness output. '0'-Start, '1'-Stop: If receive telegram value 0 will start, if receive telegram value 1 will stop and back to constant brightness output. '1/0'-Start: If receive telegram value 1 or 0 will start. '1/0'-Stop: If receive telegram value 1 or 0 will stop and back to constant brightness output.	'1'-Start, '0'-Stop '0'-Start, '1'-Stop '1/0'-Start '1/0'-Stop
-> Forced operation dimming value	This parameter, is used to set the dimming value for forced operation.	0... 50 ...100%
Change forced dimming value via bus	This parameter, is used to enable or disable for changing forced dimming value via bus.	Enable Disable

3.4. A/B: TRIGGER

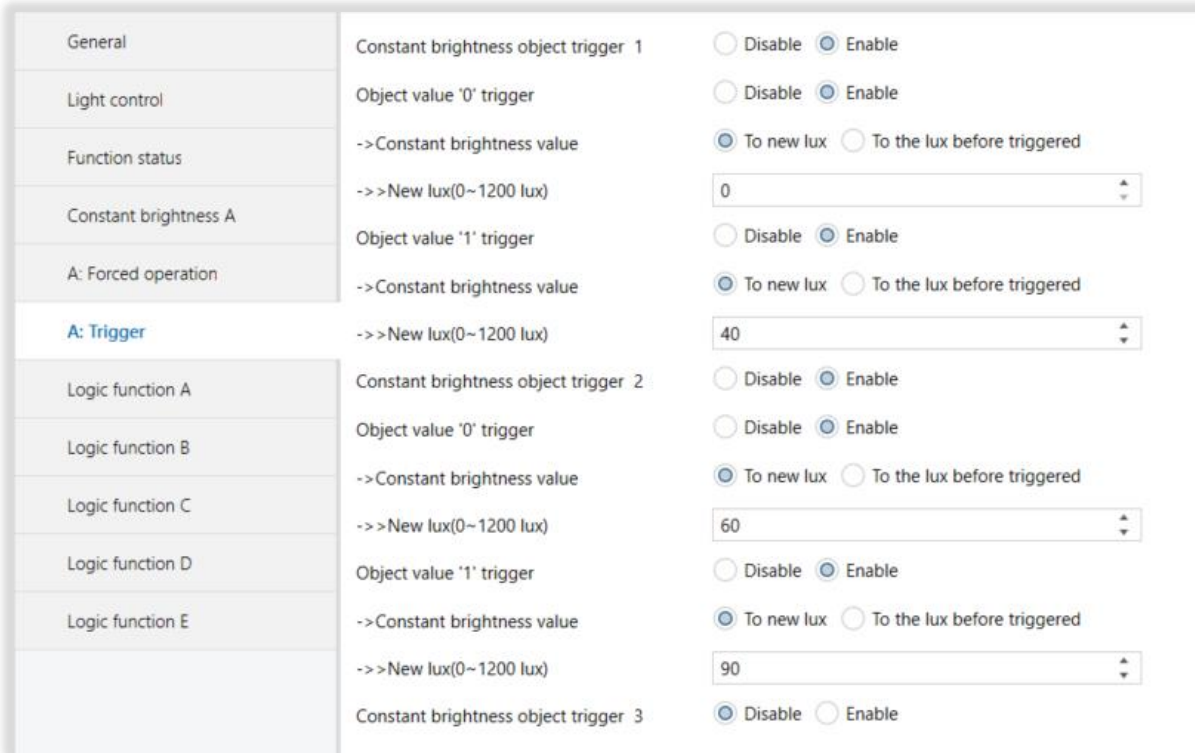


Fig 10 : A Trigger Parameter Page

3.4.1. Parameters List

PARAMETERS	DESCRIPTION	VALUES
Constant brightness object trigger 1	This parameter, is used to enable or disable for constant brightness object trigger 1.	Enable Disable
Object value '0' trigger	This parameter, is used to enable or disable object value '0' trigger.	Enable Disable
-> Constant brightness value	This parameter, is used to set the constant brightness value.	To new lux To the lux before triggered
->> New lux (0~1200 lux)	This parameter, is used to set a new lux value.	0...1200
Object value '1' trigger	This parameter, is used to enable or disable the "Object value '1' trigger" parameter.	Enable Disable
-> Constant brightness value	This parameter, is used to set the constant brightness value.	To new lux To the lux before triggered

->> New lux (0~1200 lux)	This parameter, is used to set a new lux value.	0... 40 ...1200
Constant brightness object trigger 2	This parameter, is used to enable or disable for constant brightness object trigger 2.	Enable Disable
Object value '0' trigger	This parameter, is used to enable or disable object value '0' trigger.	Enable Disable
-> Constant brightness value	This parameter, is used to set the constant brightness value.	To new lux To the lux before triggered
->> New lux (0~1200 lux)	This parameter, is used to set a new lux value.	0... 60 ...1200
Object value '1' trigger	This parameter, is used to enable or disable the "Object value '1' trigger" parameter.	Enable Disable
-> Constant brightness value	This parameter, is used to set the constant brightness value.	To new lux To the lux before triggered
->> New lux (0~1200 lux)	This parameter, is used to set a new lux value.	0... 90 ...1200
Constant brightness object trigger 3	This parameter, is used to enable or disable for constant brightness object trigger 3.	Enable Disable
Object value '0' trigger	This parameter, is used to enable or disable object value '0' trigger.	Enable Disable
-> Constant brightness value	This parameter, is used to set the constant brightness value.	To new lux To the lux before triggered
->> New lux (0~1200 lux)	This parameter, is used to set a new lux value.	0... 120 ...1200
Object value '1' trigger	This parameter, is used to enable or disable the "Object value '1' trigger" parameter.	Enable Disable
-> Constant brightness value	This parameter, is used to set the constant brightness value.	To new lux To the lux before triggered
->> New lux (0~1200 lux)	This parameter, is used to set a new lux value.	0... 150 ...1200

3.5. LIGHT CONTROL

The screenshot shows a configuration interface for light control. On the left is a sidebar with tabs: General, Light control (selected), Function status, Constant brightness A, A: Forced operation, A: Trigger, Logic function A, Logic function B, Logic function C, Logic function D, and Logic function E. The main area contains the following parameters:

- Use light channel 1?**: Radio buttons for No and Yes (Yes is selected).
- Operation mode**: Radio buttons for Normal (selected) and semi-automatic.
- Follow-up time seconds**: Input field with value 0.
- Follow-up time minutes**: Input field with value 1.
- Follow-up time hours**: Input field with value 0.
- Follow-up time change via object?**: Radio buttons for No (selected) and Yes.
- Threshold value brightness**: Input field with value 500.
- Threshold value brightness via object?**: Radio buttons for No (selected) and Yes.
- Use brightness shutdown?**: Radio buttons for No (selected) and Yes.
- Output**: A section with separator lines (=====) and a double equals sign (==).
- Object type**: Radio buttons for 1bit (selected) and 1byte.
- Value when detection**: Radio buttons for OFF-"0" and ON-"1" (ON-"1" is selected).
- Value when non-detection time out**: Radio buttons for OFF-"0" (selected) and ON-"1".
- Safety time(seconds)**: Input field with value 0.
- Lock**: A section with separator lines (=====) and a double equals sign (==).
- Use lock object?**: A dropdown menu with the value 'No' selected.
- Use light channel 2?**: Radio buttons for No (selected) and Yes.

Fig 11 : Light Control Parameter Page

3.5.1. Parameters List

PARAMETERS	DESCRIPTION	VALUES
Use light channel 1/2	This parameter, is used to enable or disable the light channel 1/2 function.	No Yes
Operation mode	This parameter, is used to set the operation mode.	Normal Semi-automatic
- Follow-up time seconds	This parameter, is used to set the follow up time in seconds.	0...59
- Follow-up time minutes	This parameter, is used to set the follow up time in minutes.	0...1...59
- Follow-up time hours	This parameter, is used to set the follow up time in hours.	0...24
- Follow-up time change via object?	This parameter, is used to enable or disable change follow time via KNX bus by object.	No Yes

Threshold value brightness	This parameter, is used to set the threshold value of brightness.	0... 500 ...1200
Threshold value brightness via object?	This parameter, is used to enable or disable the changing threshold value brightness via object.	No Yes
Use brightness shutdown?	This parameter, is used to enable or disable the use brightness to shutdown.	No Yes
- Calculate delay time (1...50minutes)	This parameter, is used to set the delay time in minutes.	1...50
- Object type	This parameter, is used to set the object type.	1 bit 1 byte
- Value when detection	This parameter, is used to set output value when detection (1 bit).	OFF- "0" ON- "1"
- Value when non-detection time out	This parameter, is used to set output value when non-detection (1 bit).	OFF- "0" ON- "1"
Safety time(seconds)	This parameter, is used to set the safety time in seconds.	0...255
- Value when detection	This parameter, is used to set value when detection (1 byte).	0... 255
- Value when non-detection time out	This parameter, is used to set value when non-detection (1 byte).	0... 192 ...255
-> When non-detection continue dim delay	This parameter, is used to enable or disable the continue dim delay when non-detection.	No Yes
--> A delay time seconds	This parameter, is used to set "A" delay time in seconds.	0... 30 ...59
--> A delay time minutes	This parameter, is used to set "A" delay time in minutes.	0...59
--> A value	This parameter, is used to set the "A" value.	0... 128 ...255
---> B delay time seconds	This parameter, is used to set the "B" delay time in seconds.	0... 30 ...59
---> B delay time minutes	This parameter, is used to set the "B" delay time in minutes.	0...59
---> B value	This parameter, is used to set the "B" value.	0... 64 ...255
----> C delay time seconds	This parameter, is used to set the "C" delay time in seconds.	0... 30 ...59
----> C delay time minutes	This parameter, is used to set the "C" delay time in minutes.	0...59
----> C value	This parameter, is used to set the "C" value.	0...255

Use lock object?	<p>This parameter, is used to enable or disable the lock object.</p> <p>Disable : The lock object is disabled.</p> <p>'1'-lock, '0'-unlock : The object is locked when the value '1' is received, is unlocked when the value '0' is received.</p> <p>'0'-lock, '1'-unlock : The object is locked when the value '0' is received, is unlocked when the value '1' is received.</p>	<p>No</p> <p>'1'-lock, '0'-unlock</p> <p>'0'-lock, '1'-unlock</p>
-- Lock	<p>This parameter, is used to set only for locking or for setting both locking and value transmitting.</p>	<p>Only lock</p> <p>Lock and transmit value</p>
--> Value	<p>This parameter, is used to determine what the value is to be transmitted when unlocking.</p>	<p>OFF-"0"</p> <p>ON-"1"</p>
-- Unlock	<p>This parameter, is used to set only for unlocking or for setting both unlocking and value transmitting.</p>	<p>Only unlock</p> <p>Lock and transmit value</p>
--> Value	<p>This parameter, is used to determine what the value is to be transmitted when unlocking.</p>	<p>OFF-"0"</p> <p>ON-"1"</p>
-- Automatic unlock after lock delay	<p>This parameter, is used to enable or disable automatic unlocking after lock.</p>	<p>Disable</p> <p>Enable</p>
--> Delay time seconds	<p>This parameter, is used to set the time delay in seconds.</p>	<p>0..59</p>
--> Delay time minutes	<p>This parameter, is used to set the time delay in minutes.</p>	<p>0..1...59</p>
--> Delay time hours	<p>This parameter, is used to set the time delay in hours.</p>	<p>0..24</p>

3.6. FUNCTION STATUS

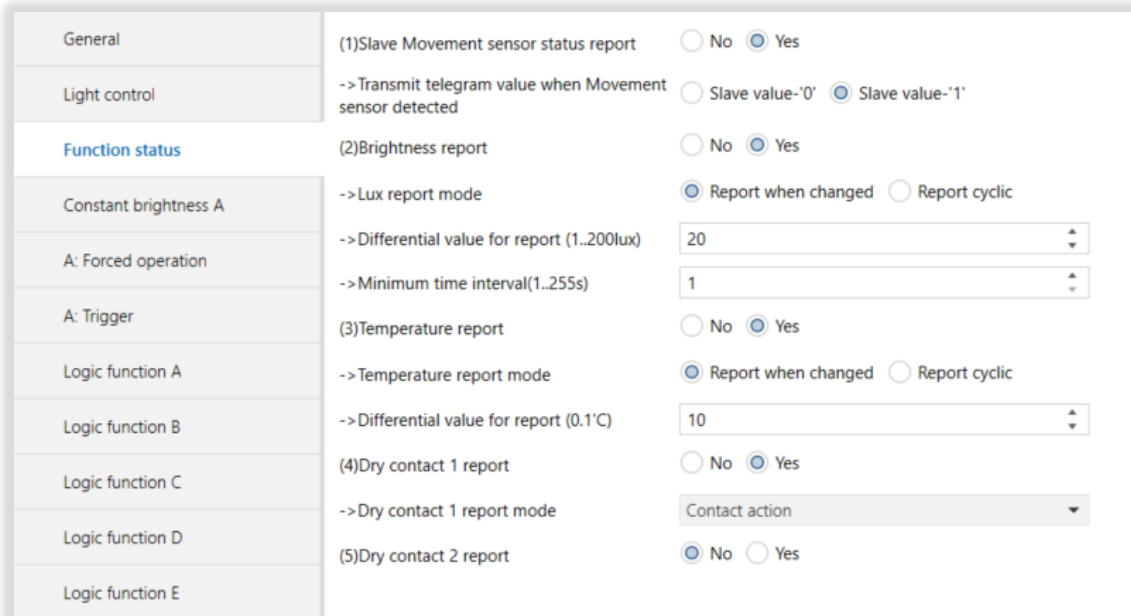


Fig 12 : Function Status Parameter Page

3.6.1. Parameters List

PARAMETERS	DESCRIPTION	VALUES
(1)Slave Movement sensor status report	This parameter, is used to enable or disable slave movement sensor status report.	No Yes
-> Transmit telegram value when Movement sensor detected	This parameter, is used to set the transmit telegram value when movement sensor detected.	Slave value '0' Slave value '1'
(2)Brightness report	This parameter, is used to enable or disable the lux value report feature. If the brightness value falls into the valid range, it reports the current value to the bus line only once. However, if it is within the range, it does not take the initiative to send the brightness values. But, an external device can always read the current brightness values.	No Yes
-> Lux report mode	This parameter, is used to set the lux value report mode. Report when changed: It is reported when the lux value is changed. Report cyclic: The lux value is reported cyclically.	Report cyclic Report when changed

-> Differential value for report (1...200lux)	This parameter, is used to set the differential lux value for reporting. If the changing lux value higher than the set value, reporting is made.	1...20...200
-> Minimum time interval(1...255s)	This parameter, is used to set the minimum time interval in seconds to report when there is a change of value. If the changing lux value higher than the set value, reporting is made.	1...255
-> Lux report cycle (1...255s)	This parameter, is used to set the time for lux reporting cycle.	1...10...255
(3)Temperature report	This parameter, is used to enable or disable the temperature value reporting feature.	No Yes
-> Temperature report mode	This parameter, is used to set the temperature value reporting mode. Report when changed: It is reported when the temperature value is changed. Report cyclic: The temperature value is reported cyclically.	Report cyclic Report when changed
-> Differential value for report (0.1°C)	This parameter, is used to set the differential temperature value for reporting. If the changing lux value higher than the set value, reporting is made.	1...10...50
-> Temperature report cycle (1...255s)	This parameter, is used to set the time for temperature reporting cycle.	1...10...255
Dry contact 1 report	This parameter is used to enable or disable dry contact 1 reporting.	No Yes
-> Dry contact 1 report mode	This parameter, is used to reporting mode of dry contact 1.	Contact action When status value changed True False Contact action and periodically When status value changed and periodically True and periodically False and periodically
--> Report cycle time(1...255s)	This parameter, is used to set the reporting period time.	1...10...255
Dry contact 2 report	This parameter is used to enable or disable dry contact 2 reporting.	No Yes

3.7. LOGIC FUNCTION A

General	Use logical block A	<input type="radio"/> No <input checked="" type="radio"/> Yes
Light control	(1)Enable Movement sensor	Single mode(independent sensor) ▾
Function status	->Movement sensor status	<input type="radio"/> Movement sensor detected is False,else is True <input checked="" type="radio"/> Movement sensor detected is True,else is False
Constant brightness A	(2)Enable brightness(Lux) sensor	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
A: Forced operation	(3)Enable temperature sensor	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
A: Trigger	(4)Enable external telegram 1	Disable ▾
Logic function A	(5)Enable external telegram 2	Disable ▾
Block A	(6)Enable dry contact 1 input	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
A1: Switching	(7)Enable dry contact 2 input	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Logic function B	Logical relation of block A	<input checked="" type="radio"/> AND <input type="radio"/> OR
Logic function C	Result of logic A inverted	<input checked="" type="radio"/> No <input type="radio"/> Yes
Logic function D	Status(True/False) of logic A to bus	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Logic function E	<1>Use logical A function lock?	<input checked="" type="radio"/> No <input type="radio"/> Yes
	<2>Use logical A function lock?	<input checked="" type="radio"/> No <input type="radio"/> Yes
	Logic A output status when logic function unlock	True ▾
	Feekback logic A function lock status	<input checked="" type="radio"/> No <input type="radio"/> Yes

Fig 13 : Logic Function A Parameter Page

3.7.1. Parameters List

PARAMETERS	DESCRIPTION	VALUES
Use logical block A-E	This parameter, is used to enable or disable the using logical block A.	Yes No
(1)Enable movement sensor	This parameter, is used to enable or disable the movement sensor. Single mode : The sensor works as a single sensor. Master/slave mode : It is possible to switch several presence detectors together. If two or more presence detectors are installed in a room, one presence detector must operate as "Master" and all the others must be set to the "Slave" function.	Disable Single mode(independent sensor) Master/slave mode(Master sensor)

<p>-> Movement sensor status</p>	<p>This parameter, is used to set the movement sensor status.</p> <p>Movement sensor detected is false, else is true: When the sensor reports movement will be false, else is true.</p> <p>Movement sensor detected is True, else is false: When the sensor reports movement will be true, else is false.</p>	<p>Movement sensor detected is False, else is True</p> <p>Movement sensor detected is True, else is False</p>
<p>-> Local movement sensor status</p>	<p>This parameter, is used to set the local movement sensor status.</p> <p>Movement sensor detected is false, else is true: When the sensor reports movement will be false, else is true.</p> <p>Movement sensor detected is True, else is false: When the sensor reports movement will be true, else is false.</p>	<p>Movement sensor detected is False, else is True</p> <p>Movement sensor detected is True, else is False</p>
<p>-> Master is set to True when receive</p>	<p>This parameter, is used to set the Master sensor to true value when received slave sensor values.</p>	<p>Slave value-'0'</p> <p>Slave value-'1'</p>
<p>(2)Enable brightness(Lux) sensor</p>	<p>This parameter, is used to enable or disable the lux sensor.</p>	<p>Enable</p> <p>Disable</p>
<p>Enable brightness(Lux) threshold A</p>	<p>This parameter, is used to enable or disable lux threshold A value.</p>	<p>Enable</p> <p>Disable</p>
<p>-> Lux>=Threshold lower (0~1200 lux)</p>	<p>This parameter, is used to set the lux threshold lower value.</p>	<p>0...100...1200</p>
<p>-> Lux<=Threshold upper (0~1200 lux)</p>	<p>This parameter, is used to set the lux threshold upper value.</p>	<p>0...300...1200</p>
<p>-> Changed lux threshold value via bus</p>	<p>This parameter, is used to enable or disable for changing lux threshold value via bus line.</p> <p>Yes : Lux threshold value can be changed via bus line.</p> <p>No : Lux threshold value can not be changed via bus line.</p>	<p>Yes</p> <p>No</p>

<p>-> Brightness(Lux) status</p>	<p>This parameter, is used to set the lux status.</p> <p>In range is True, else False: If brightness value between lower and upper, the logic is true else false.</p> <p>Out range is True, else False: If brightness value is not between lower and upper, the logic is true else false.</p> <p>Under lower is True, above upper is False: If brightness value under lower is true, above upper is false.</p> <p>Under lower is False, above upper is True: If brightness value under lower is false, above upper is true.</p>	<p>In range is True, else False</p> <p>Out range is True, else False</p> <p>Under lower is True, above upper is False</p> <p>Under lower is False, above upper is True</p>
<p>-> Independent control <object output 8></p>	<p>This parameter, is used to enable or disable the independent control object.</p>	<p>No</p> <p>Yes(Separated from logic and output)</p>
<p>(3)Enable temperature sensor</p>	<p>This parameter, is used to enable or disable the temperature sensor.</p>	<p>Enable</p> <p>Disable</p>
<p>->Temperature>=Threshold lower (0.1°C)</p>	<p>This parameter, is used to set the temperature threshold lower value.</p>	<p>-300...220...700</p>
<p>->Temperature<=Threshold upper (0.1°C)</p>	<p>This parameter, is used to set the temperature threshold upper value.</p>	<p>-300...260...700</p>
<p>->changed temperature threshold value via bus</p>	<p>This parameter, is used to enable or disable for changing temperature threshold value via bus.</p> <p>Yes: Can change temperature threshold value via bus.</p> <p>No: Can not change temperature threshold value via bus.</p>	<p>Yes</p> <p>No</p>
<p>->Temperature status</p>	<p>This parameter, is used to set the temperature status.</p> <p>In range is True, else False : If temperature value between lower and upper, the logic is true else false.</p> <p>Out range is True, else False : If temperature value is not between lower and upper, the logic is true else false.</p> <p>Under lower is True, above upper is False : If temperature value under lower is true, above upper is false.</p> <p>Under lower is False, above upper is True : If temperature value under lower is false, above upper is true.</p>	<p>In range is True, else False</p> <p>Out range is True, else False</p> <p>Under lower is True, above upper is False</p> <p>Under lower is False, above upper is True</p>

Enable external telegram 1/2	This parameter, is used to enable or disable the external telegram 1.	Disable 1 bit value('1'/'0') 1 byte threshold (0...255) 2 bytes threshold (0...65535) 2 bytes float threshold (-50°C...100°C) 4 bytes threshold (0...2147483647)
->1 byte threshold (0...255)	This parameter, is used to set the 1 byte threshold value.	0... 100 ...255
->Extern telegram status	This parameter, is used to set the external telegram status.	'1' is True, '0' is False '0' is True, '1' is False
->2 byte threshold (0...65535)	This parameter, is used to set the 2 byte threshold value.	0... 1000 ...65535
->2 byte float threshold (0.1°C)	This parameter, is used to set the 2 byte float threshold value.	-500... 250 ...1000
->4 byte threshold (0...2147483647)	This parameter, is used to set the 4 byte threshold value.	0... 1000000 ...2147483647
->Extern telegram status	This parameter, is used to set the external telegram status.	True if REV value >= Threshold, else False True if REV value <= Threshold, else False
->Default status after bus voltage recovery	This parameter, is used to set the default status after bus voltage recovery.	True False Recovery
Logical relation of block A	This parameter, is used to set for logical relation of block A. AND : All conditions should be satisfied. OR : One condition is satisfied, the logic will trigger.	AND OR
Result of logic A inverted	This parameter, is used to enable or disable for result of logical A inverted. Yes : Logic function A results non-inverted. No : Logic function A result Inverted.	Yes No
Status(True/False) of logic A to bus	This parameter, is used to enable or disable the status of logic A to bus.	Enable Disable
->Send status when	This parameter, is used to set when the status value will be sent. Status changed : When the status is changed, the value will be sent.	Status changed Status is True Status is False

	<p>Status is True: When the status is true, the value will be sent.</p> <p>Status is False: When the status is false, the value will be sent.</p> <p>Status changed and periodically: If the status is changed, the value will be sent periodically.</p> <p>Status is True and periodically: If the status is true, the value will be sent periodically.</p> <p>Status is False and periodically: If the status is false, the value will be sent periodically.</p>	<p>Status changed and periodically</p> <p>Status is True and periodically</p> <p>Status is False and periodically</p>
<1>Use logical A function lock?	This parameter, is used to enable or disable the logical A function lock.	No Yes
->Use telegram via bus?	This parameter, is used to enable or disable using of the telegram via bus.	No Yes
-->> Operation mode	This parameter, is used to set the operation mode.	<p>'1'-Unlock, '0'-Lock</p> <p>'1'-Lock, '0'-Unlock</p> <p>'1/0'-Lock</p> <p>'1/0'-Unlock</p> <p>'1'-Unlock, '0'-Invalid</p> <p>'0'-Lock, '1'-Invalid</p> <p>'1'-Lock, '0'- Invalid</p> <p>'0'-Unlock, '1'-Invalid</p>
Logic A output status when logic function lock	<p>This parameter, is used to set the logic A output status when logic function locked.</p> <p>Unchanged: When logic function is locked, logic A output will not be changed.</p> <p>True: When logic function is locked, logic A output will be set to True.</p> <p>False: When logic function is locked, logic A output will be set to False.</p> <p>True and immediately output: When logic function is locked, logic A output will be set to True immediately.</p> <p>False and immediately output: When logic function is locked, logic A output will be set to False immediately.</p>	<p>False and immediately output</p> <p>Unchanged</p> <p>True</p> <p>False</p> <p>True and immediately output</p>
Logic A automatic unlock after logic function lock.	This parameter, is used to enable or disable for unlocking logic A locked status.	No Yes

-->>Delay time (0...17hours)	This parameter, is used to set the time delay in hours.	0...17
-->>Delay time (0...59min)	This parameter, is used to set the time delay in minutes.	0...59
-->>Delay time (0...59sec)	This parameter, is used to set the time delay in seconds.	0...30...59
<2>Use logical A function lock?	All settings are same as 1.	All settings are same as 1.
Logic A output status when logic function unlock	This parameter, is used to set the logic A output status when logic function unlocked.	False True Current logic status
Feedback logic A function lock status	This parameter, is used to enable or disable the feedback logic A function lock status. Yes: Feedback logic A function lock status will be enabled. No: Feedback logic A function lock status will be disabled.	Yes No

3.8. BLOCK A-E

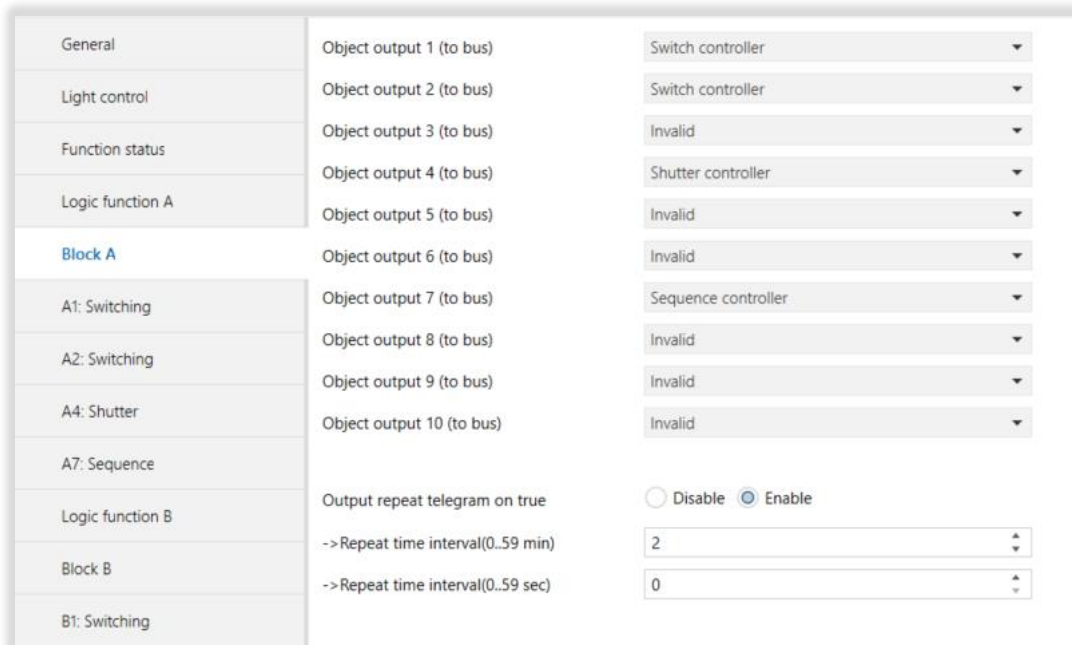


Fig 14 : Block A Parameter Page

3.8.1. Parameters List

PARAMETERS	DESCRIPTION	VALUES
Object output 1-10 (to bus)	This parameter, is used to set the object output 1-10 to bus. A total of 10 targets and 9 types can be set.	Invalid (Out 2-10) Switch controller (Out 1) Absolute dimming controller Shutter controller Alarm controller Percentage controller Sequence controller Scene controller String(14 bytes) controller Threshold controller
Output repeat telegram on true	This parameter, is used to enable or disable the output repeat telegram on true value.	Disable Enable
-> Repeat time interval(0..59 min)	This parameter, is used to set the time for repeat time interval in minutes.	0...2...59
-> Repeat time interval(0..59 sec)	This parameter, is used to set the time for repeat time interval in seconds.	0...59

3.9. A1: SWITCHING

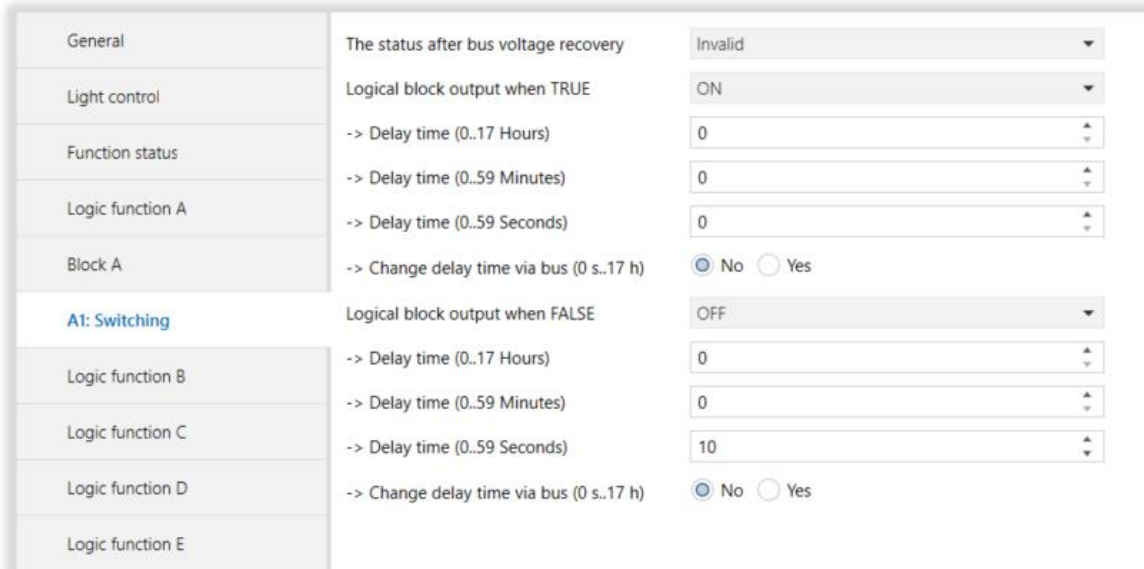


Fig 15 : A1:Switching Parameter Page

3.9.1. Parameters List

PARAMETERS	DESCRIPTION	VALUES
The status after bus voltage recovery	This parameter, is used to set the status after bus voltage recovery.	Invalid OFF ON Recovery
Logical block output when TRUE	This parameter, is used to set the function when logic block output is true.	Invalid OFF ON Toggle
-> Delay time (0...17 Hours)	This parameter, is used to set the time delay in hours.	0...17
-> Delay time (0...59 Min)	This parameter, is used to set the time delay in minutes.	0...59
-> Delay time (0...59 Sec)	This parameter, is used to set the time delay in seconds.	0...59
-> Change delay time via bus (0s...17h)	This parameter, is used to set the changing delay time via bus. Yes: The delay time can be changed via bus. No: The delay time can not be changed via bus.	Yes No
Logical block output when FALSE	This parameter, is used to set the function when logic block output is false.	Invalid OFF ON Toggle
-> Delay time (0...17 Hours)	This parameter, is used to set the time delay in hours.	0...17
-> Delay time (0...59 Min)	This parameter, is used to set the time delay in minutes.	0...59
-> Delay time (0...59 Sec)	This parameter, is used to set the time delay in seconds.	0...10...59
-> Change delay time via bus (0s...17h)	This parameter, is used to set the changing delay time via bus. Yes: The delay time can be changed via bus. No: The delay time can not be changed via bus.	Yes No

3.10. A1: DIMMING

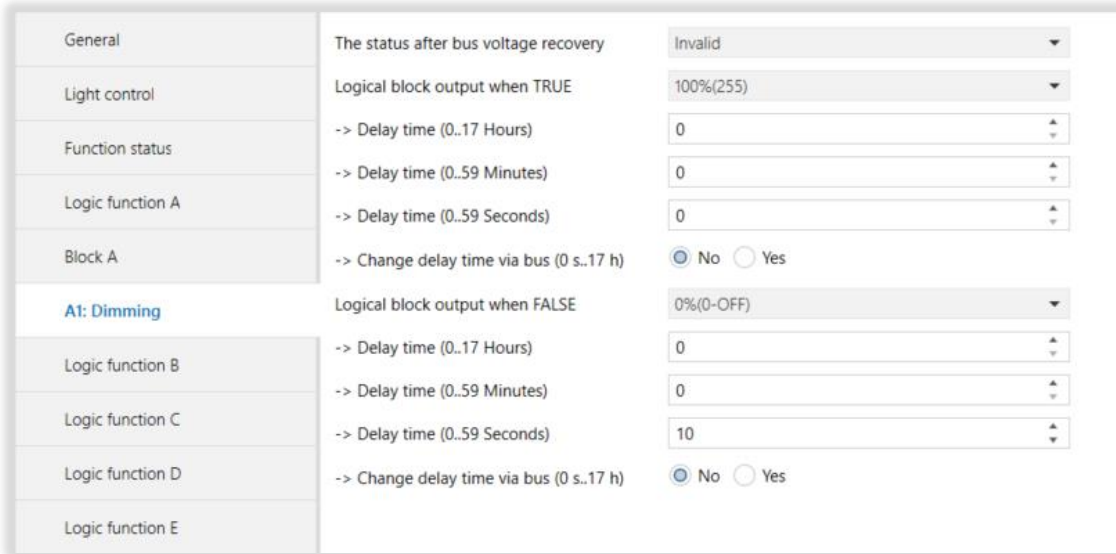


Fig 16 : A1:Dimming Parameter Page

3.10.1. Parameters List

PARAMETERS	DESCRIPTION	VALUES
The status after bus voltage recovery	This parameter, is used to set the status after bus voltage recovery.	Invalid Recovery Defined dimming
-> Recovery defined dimming	This parameter, is used to set the recovery defined dimming value after bus voltage recovery.	Invalid 0%(0-OFF)...100%(255)
Logical block output when TRUE	This parameter, is used to set the function when logic block output is true.	Invalid 0%(0-OFF)...100%(255)
-> Delay time (0...17 Hours)	This parameter, is used to set the time delay in hours.	0...17
-> Delay time (0...59 Min)	This parameter, is used to set the time delay in minutes.	0...59
-> Delay time (0...59 Sec)	This parameter, is used to set the time delay in seconds.	0...59
-> Change delay time via bus (0s...17h)	This parameter, is used to set the changing delay time via bus. Yes: The delay time can be changed via bus. No: The delay time can not be changed via bus.	Yes No

Logical block output when FALSE	This parameter, is used to set the function when logic block output is false.	Invalid 0%(0-OFF)...100%(255)
-> Delay time (0...17 Hours)	This parameter, is used to set the time delay in hours.	0...17
-> Delay time (0...59 Min)	This parameter, is used to set the time delay in minutes.	0...59
-> Delay time (0...59 Sec)	This parameter, is used to set the time delay in seconds.	0...10...59
-> Change delay time via bus (0s...17h)	This parameter, is used to set the changing delay time via bus. Yes: The delay time can be changed via bus. No: The delay time can not be changed via bus.	Yes No

3.11. A1: SHUTTER

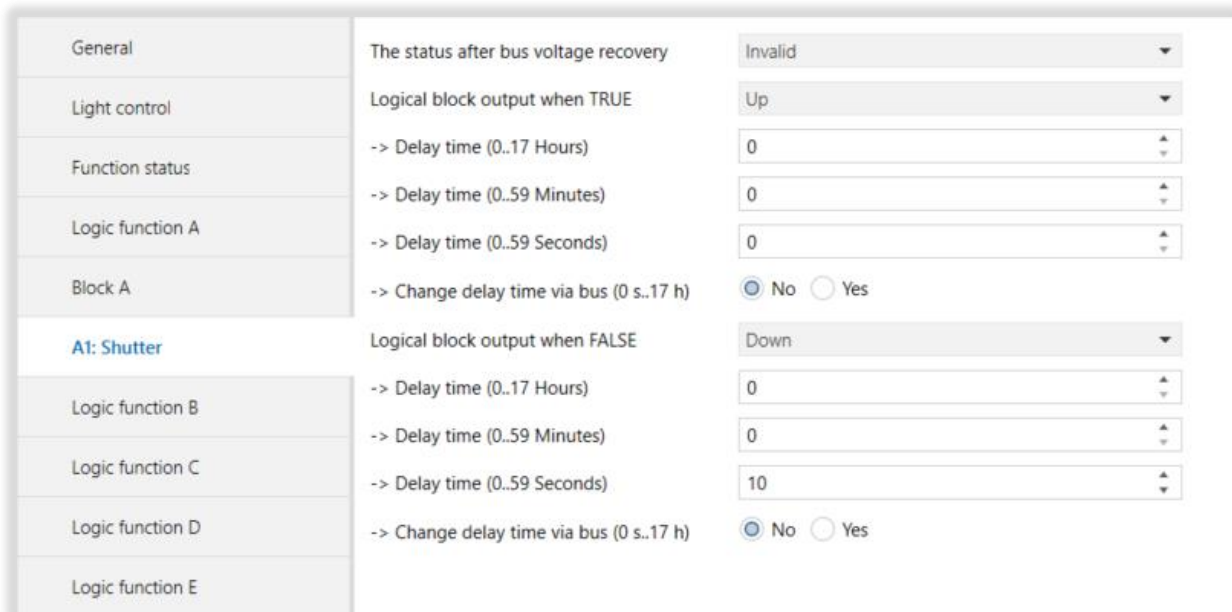


Fig 17 : A1:Shutter Parameter Page

3.11.1. Parameters List

PARAMETERS	DESCRIPTION	VALUES
The status after bus voltage recovery	This parameter, is used to set the status after bus voltage recovery.	Invalid UP Down Recovery

Logical block output when TRUE	This parameter, is used to set the function when logic block output is true.	Invalid Up Down Toggle
-> Delay time (0...17 Hours)	This parameter, is used to set the time delay in hours.	0...17
-> Delay time (0...59 Min)	This parameter, is used to set the time delay in minutes.	0...59
-> Delay time (0...59 Sec)	This parameter, is used to set the time delay in seconds.	0...59
-> Change delay time via bus (0s...17h)	This parameter, is used to set the changing delay time via bus. Yes: The delay time can be changed via bus. No: The delay time can not be changed via bus.	Yes No
Logic block output when FALSE	This parameter, is used to set the function when logic block output is false.	Invalid Up Down Toggle
-> Delay time (0...17 Hours)	This parameter, is used to set the time delay in hours.	0...17
-> Delay time (0...59 Min)	This parameter, is used to set the time delay in minutes.	0...59
-> Delay time (0...59 Sec)	This parameter, is used to set the time delay in seconds.	0...10...59
-> Change delay time via bus (0s...17h)	This parameter, is used to set the changing delay time via bus. Yes: The delay time can be changed via bus. No: The delay time can not be changed via bus.	Yes No

3.12. A1: ALARM

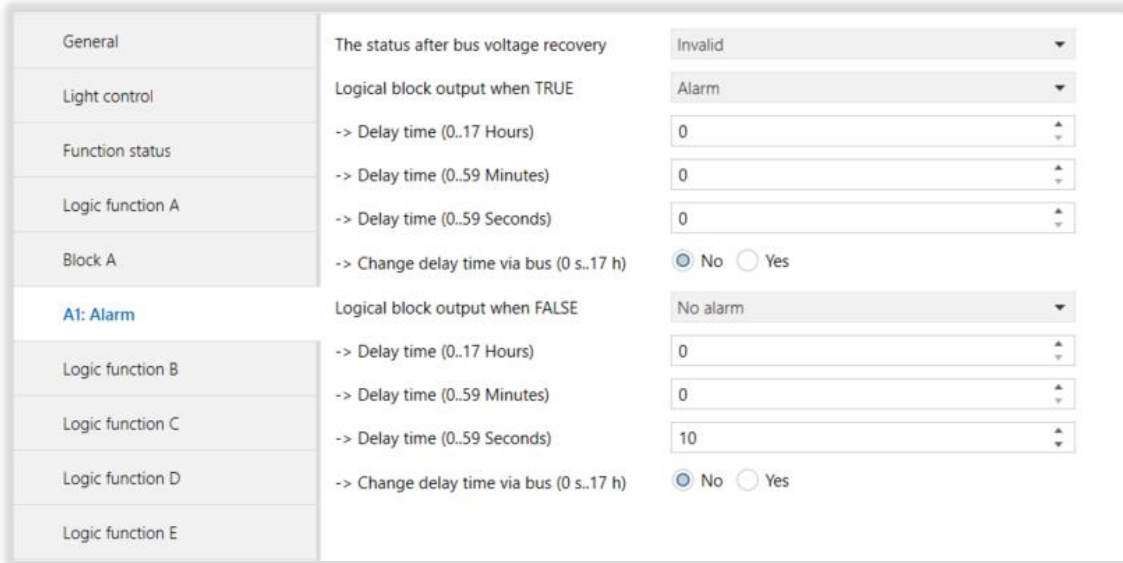


Fig 18 : A1:Alarm Parameter Page

3.12.1. Parameters List

PARAMETERS	DESCRIPTION	VALUES
The status after bus voltage recovery	This parameter, is used to set the status after bus voltage recovery.	Invalid Alarm No Alarm Recovery
Logical block output when TRUE	This parameter, is used to set the function when logic block output is true.	Invalid Alarm No Alarm Toggle
-> Delay time (0...17 Hours)	This parameter, is used to set the time delay in hours.	0...17
-> Delay time (0...59 Min)	This parameter, is used to set the time delay in minutes.	0...59
-> Delay time (0...59 Sec)	This parameter, is used to set the time delay in seconds.	0...59
-> Change delay time via bus (0s...17h)	This parameter, is used to set the changing delay time via bus. Yes: The delay time can be changed via bus. No: The delay time can not be changed via bus.	Yes No

Logic block output when FALSE	This parameter, is used to set the function when logic block output is false.	Invalid Alarm No Alarm Toggle
-> Delay time (0...17 Hours)	This parameter, is used to set the time delay in hours.	0...17
-> Delay time (0...59 Min)	This parameter, is used to set the time delay in minutes.	0...59
-> Delay time (0...59 Sec)	This parameter, is used to set the time delay in seconds.	0...10...59
-> Change delay time via bus (0s...17h)	This parameter, is used to set the changing delay time via bus. Yes: The delay time can be changed via bus. No: The delay time can not be changed via bus.	Yes No

3.13. A1: PERCENTAGE CONTROL

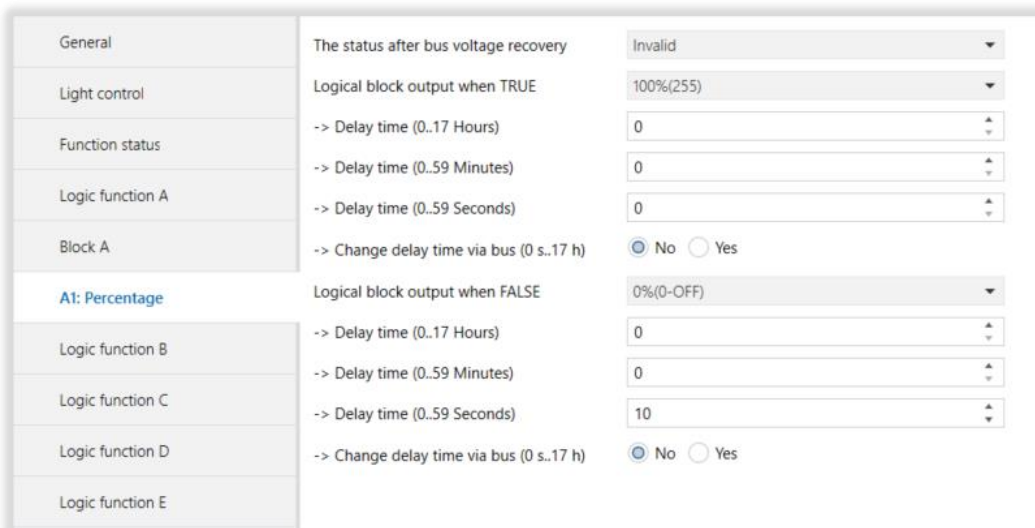


Fig 19 : A1: Percentage Control Parameter Page

3.13.1. Parameters List

PARAMETERS	DESCRIPTION	VALUES
The status after bus voltage recovery	This parameter, is used to set the status after bus voltage recovery.	Invalid Recovery Defined percentage

-> Recovery defined percentage	This parameter is used to set the value that the function will take after a power failure.	0%(0-OFF)...100%(255)
Logical block output when TRUE	This parameter, is used to set the function when logic block output is true.	Invalid 0%(0-OFF)...100%(255)
-> Delay time (0...17 Hours)	This parameter, is used to set the time delay in hours.	0...17
-> Delay time (0...59 Min)	This parameter, is used to set the time delay in minutes.	0...59
-> Delay time (0...59 Sec)	This parameter, is used to set the time delay in seconds.	0...59
-> Change delay time via bus (0s...17h)	This parameter, is used to set the changing delay time via bus. Yes: The delay time can be changed via bus. No: The delay time can not be changed via bus.	Yes No
Logic block output when FALSE	This parameter, is used to set the function when logic block output is false.	Invalid 0%(0-OFF)...100%(255)
-> Delay time (0...17 Hours)	This parameter, is used to set the time delay in hours.	0...17
-> Delay time (0...59 Min)	This parameter, is used to set the time delay in minutes.	0...59
-> Delay time (0...59 Sec)	This parameter, is used to set the time delay in seconds.	0...10...59
-> Change delay time via bus (0s...17h)	This parameter, is used to set the changing delay time via bus. Yes: The delay time can be changed via bus. No: The delay time can not be changed via bus.	Yes No

3.14. A1:SEQUENCE CONTROL

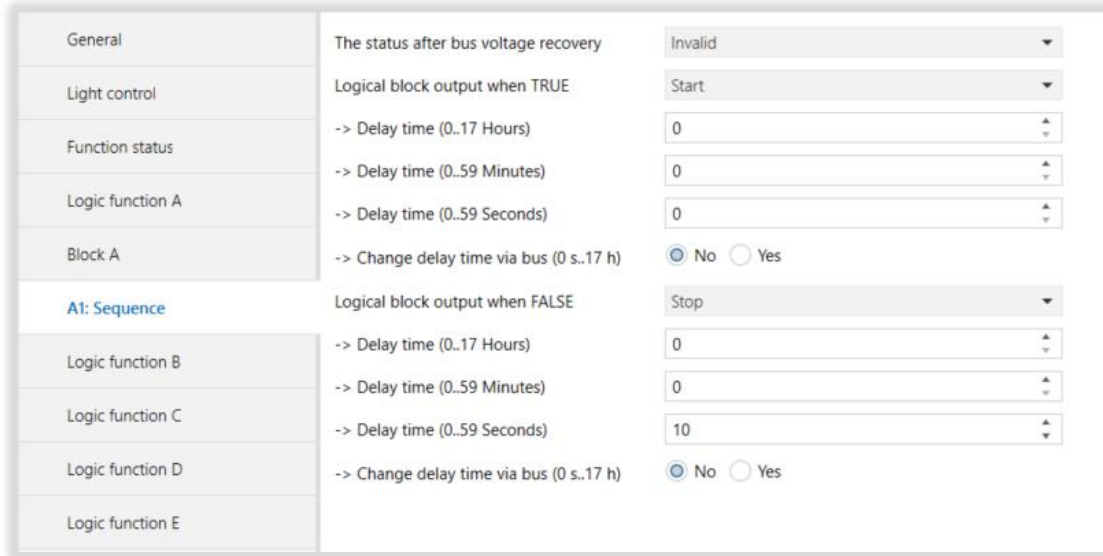


Fig 20 : A1: Sequence Control Parameter Page

3.14.1. Parameters List

PARAMETERS	DESCRIPTION	VALUES
The status after bus voltage recovery	This parameter, is used to set the status after bus voltage recovery.	Invalid Stop Start Recovery
Logical block output when TRUE	This parameter, is used to set the function when logic block output is true.	Invalid Stop Start Toggle
-> Delay time (0...17 Hours)	This parameter, is used to set the time delay in hours.	0...17
-> Delay time (0...59 Min)	This parameter, is used to set the time delay in minutes.	0...59
-> Delay time (0...59 Sec)	This parameter, is used to set the time delay in seconds.	0...59
-> Change delay time via bus (0s...17h)	This parameter, is used to set the changing delay time via bus. Yes: The delay time can be changed via bus. No: The delay time can not be changed via bus.	Yes No

Logic block output when FALSE	This parameter, is used to set the function when logic block output is false.	Invalid Stop Start Toggle
-> Delay time (0...17 Hours)	This parameter, is used to set the time delay in hours.	0...17
-> Delay time (0...59 Min)	This parameter, is used to set the time delay in minutes.	0...59
-> Delay time (0...59 Sec)	This parameter, is used to set the time delay in seconds.	0...10...59
-> Change delay time via bus (0s...17h)	This parameter, is used to set the changing delay time via bus. Yes: The delay time can be changed via bus. No: The delay time can not be changed via bus.	Yes No

3.15. A1: SCENE CONTROL

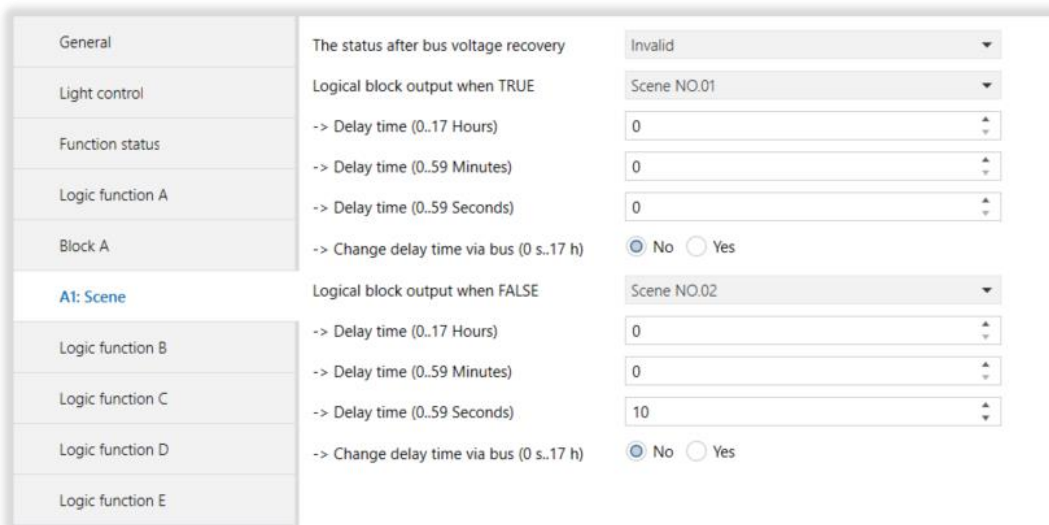


Fig 21 : A1: Scene Control Parameter Page

3.15.1. Parameters List

PARAMETERS	DESCRIPTION	VALUES
The status after bus voltage recovery	This parameter, is used to set the status after bus voltage recovery.	Invalid Recovery Defined scene

Recovery defined scene NO.	This parameter is used to set the scene that the function will take after a power failure.	Scene NO.01..Scene NO.64
Logical block output when TRUE	This parameter, is used to set the function when logic block output is true.	Invalid Scene NO.01..Scene NO.64
-> Delay time (0...17 Hours)	This parameter, is used to set the time delay in hours.	0...17
-> Delay time (0...59 Min)	This parameter, is used to set the time delay in minutes.	0...59
-> Delay time (0...59 Sec)	This parameter, is used to set the time delay in seconds.	0...59
-> Change delay time via bus (0s...17h)	This parameter, is used to set the changing delay time via bus. Yes: The delay time can be changed via bus. No: The delay time can not be changed via bus.	Yes No
Logic block output when FALSE	This parameter, is used to set the function when logic block output is false.	Invalid Scene NO.01...Scene NO.02..Scene NO.64
-> Delay time (0...17 Hours)	This parameter, is used to set the time delay in hours.	0...17
-> Delay time (0...59 Min)	This parameter, is used to set the time delay in minutes.	0...59
-> Delay time (0...59 Sec)	This parameter, is used to set the time delay in seconds.	0...10...59
-> Change delay time via bus (0s...17h)	This parameter, is used to set the changing delay time via bus. Yes: The delay time can be changed via bus. No: The delay time can not be changed via bus.	Yes No

3.16. A1: STRING

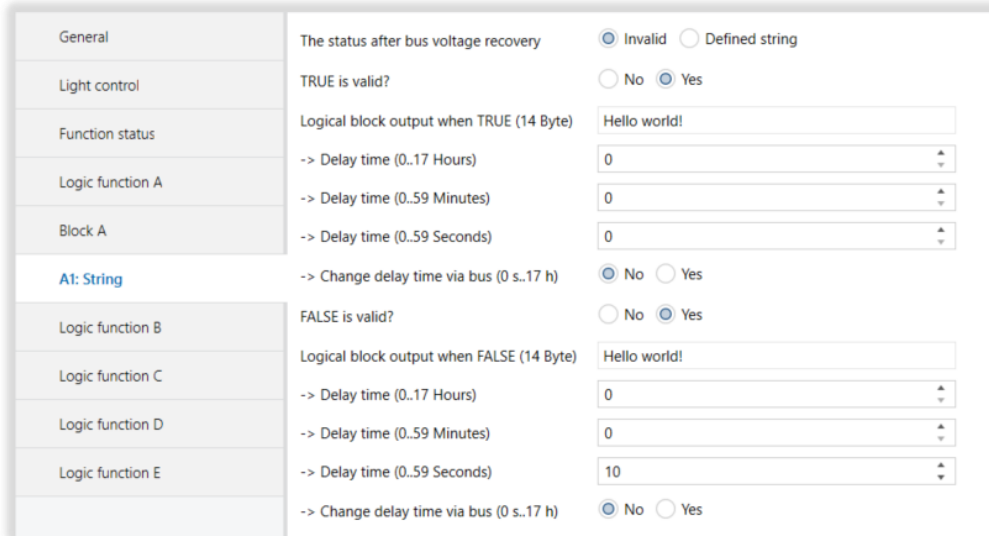


Fig 22 : A1: String Parameter Page

3.16.1. Parameters List

PARAMETERS	DESCRIPTION	VALUES
The status after bus voltage recovery	This parameter, is used to set the status after bus voltage recovery.	Invalid Defined String
Recovery defined string (14 Byte)	This parameter, is used to set the recovery defined string after bus voltage recovery(14 byte).	Hello world!
TRUE is valid?	This parameter, is used to enable or disable for true value is valid. True: True is valid. No: True is invalid.	Yes No
Logical block output when TRUE (14 byte)	This parameter, is used to set the function when logic block output is true(14 byte).	Hello world!
-> Delay time (0...17 Hours)	This parameter, is used to set the time delay in hours.	0...17
-> Delay time (0...59 Min)	This parameter, is used to set the time delay in minutes.	0...59
-> Delay time (0...59 Sec)	This parameter, is used to set the time delay in seconds.	0...59

-> Change delay time via bus (0s...17h)	This parameter, is used to set the changing delay time via bus. Yes: The delay time can be changed via bus. No: The delay time can not be changed via bus.	Yes No
FALSE is valid?	This parameter, is used to enable or disable for false value is valid. True: False is valid. No: False is invalid.	Yes No
Logical block output when FALSE (14 byte)	This parameter, is used to set the function when logic block output is false.	Hello world!
-> Delay time (0...17 Hours)	This parameter, is used to set the time delay in hours.	0...17
-> Delay time (0...59 Min)	This parameter, is used to set the time delay in minutes.	0...59
-> Delay time (0...59 Sec)	This parameter, is used to set the time delay in seconds.	0...10...59
-> Change delay time via bus (0s...17h)	This parameter, is used to set the changing delay time via bus. Yes: The delay time can be changed via bus. No: The delay time can not be changed via bus.	Yes No

3.17. THRESHOLD CONTROL

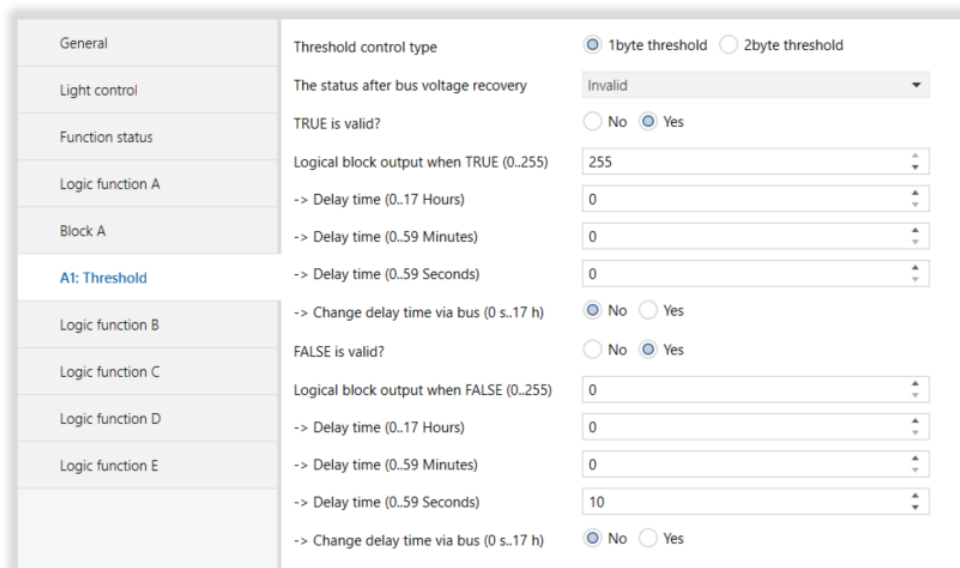


Fig 22 : A1: Threshold Parameter Page

3.17.1. Parameters List

PARAMETERS	DESCRIPTION	VALUES
Threshold control type	This parameter, is used to set the threshold control type.	1 byte threshold 2 byte threshold
The status after bus voltage recovery	This parameter, is used to set the status after bus voltage recovery.	Invalid Recovery Defined threshold
Recovery defined threshold (0...255)	This parameter, is used to set the recovery defined threshold after bus voltage recovery.	0...1...255
Recovery defined threshold (0...65535)	This parameter, is used to set the recovery defined threshold after bus voltage recovery.	0...65535
TRUE is valid?	This parameter, is used to enable or disable for true value is valid. True: True is valid. No: True is invalid.	Yes No
Logical block output when TRUE (0...255)	This parameter, is used to set the function when logical block output value is True(1 byte).	0...255
Logical block output when TRUE (0...65535)	This parameter, is used to set the function when logical block output value is True(2 byte).	0...1000...65535
-> Delay time (0...17 Hours)	This parameter, is used to set the time delay in hours.	0...17
-> Delay time (0...59 Min)	This parameter, is used to set the time delay in minutes.	0...59
-> Delay time (0...59 Sec)	This parameter, is used to set the time delay in seconds.	0...59
-> Change delay time via bus (0s...17h)	This parameter, is used to set the changing delay time via bus. Yes: The delay time can be changed via bus. No: The delay time can not be changed via bus.	Yes No
FALSE is valid?	This parameter, is used to enable or disable for false value is valid. True: False is valid. No: False is invalid.	Yes No
Logical block output when FALSE (0...255)	This parameter, is used to set the function when logical block output value is False(1 byte).	0...255
Logical block output when FALSE (0...65535)	This parameter, is used to set the function when logical block output value is False(2 byte).	0...65535

-> Delay time (0...17 Hours)	This parameter, is used to set the time delay in hours.	0...17
-> Delay time (0...59 Min)	This parameter, is used to set the time delay in minutes.	0...59
-> Delay time (0...59 Sec)	This parameter, is used to set the time delay in seconds.	0...10...59
-> Change delay time via bus (0s...17h)	This parameter, is used to set the changing delay time via bus. Yes: The delay time can be changed via bus. No: The delay time can not be changed via bus.	Yes No

3.18. LOGIC FUNCTION E

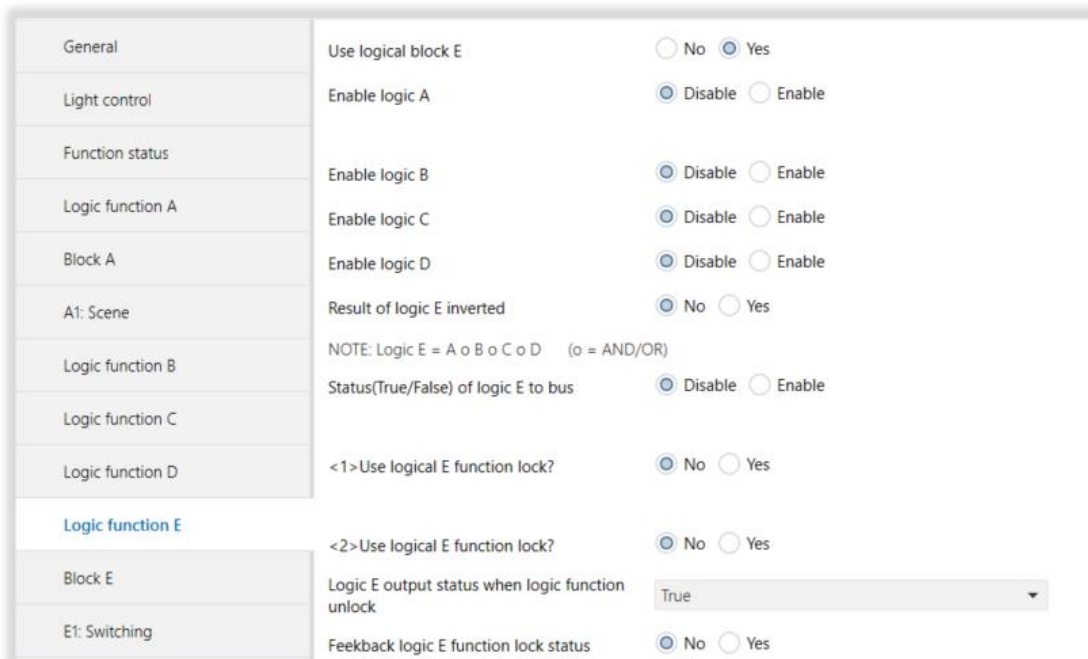


Fig 23 : Logic Function E Parameter Page

3.18.1. Parameters List

PARAMETERS	DESCRIPTION	VALUES
Use logic block E	This parameter, is used to enable or disable the logic block E.	No Yes
Enable logic A-D	These parameters, are used to enable or disable the logic A-D blocks.	Disable Enable

->Result of logic A-E inverted	This parameter, is used to enable or disable the inverse of the value obtained as a result of the logic A-E blocks.	No Yes
Logic relation	This parameter, is used to set logic relations. AND : If all logical values (A-D) are true, logic E generates a value of true. OR : If any logic value (A-D) is true, logic E generates a value of true.	AND OR
Status(True/False) of logic E to bus	This parameter, is used to enable or disable the sending of the status of the logic E to the bus line.	Disable Enable
-> Send status when	This parameter, is used to set the condition for sending status information.	Status changed Status is True Status if false Status changed and periodically Status is True and periodically Status is False and periodically
Use logical E function lock?	This parameter, is used to enable or disable the logic E function lock feature.	Yes No
->Use telegram via bus?	This parameter, is used to enable or disable the use of telegram via bus line.	No Yes
-->>Operation mode	This parameter, is used to set the operation mode.	'1' -Unlock, '0' -Lock '1' -Lock, '0' -Unlock '1/0' -Lock '1/0' -Unlock '1' -Unlock, '0' -Invalid '0' -Lock, '1' -Invalid '1' -Lock, '0' -Invalid
-Logic E output status when logic function lock	This parameter, is used to set logic E output status when logic function lock.	Unchanged True False True and immediately output False and immediately output
-Logic E automatic unlock after logic function lock	This parameter, is used to enable or disable the automatic unlock after logic function lock.	No Yes

-->> Delay time (0...17 Hours)	This parameter, is used to set the time delay in hours.	0...17
-->> Delay time (0...59 Min)	This parameter, is used to set the time delay in minutes.	0...59
-->> Delay time (0...59 Sec)	This parameter, is used to set the time delay in seconds.	0...10...59
-Logic E output status when logic function unlock	This parameter, is used to set logic E output status when logic function unlock.	True False Current logic status
Feedback logic function lock status	This parameter, is used to enable or disable feedback logic function lock status.	Yes No

4. ETS OBJECTS AND DESCRIPTIONS

It was mentioned above that there are parameters and functions with the same feature when making the relevant configurations from the parameter pages. The objects of the same properties are the same, and only the names of the objects are different. Hence, in this section, 1 of the objects with the same feature is explained.

4.1. GENERAL

At the following table, the objects associated with the general parameter page are described.

Object Name	Function	Type	Flags
General	Heartbeat telegram	1 bit	C T
This communication object is always valid. If telegram '1' is sent, the next telegram value to be sent will be '0'.			
General	Led indicator status	1 bit	C R W T
This object is used to select the LED display status as ON and OFF under different conditions.			
Constant Brightness A	Dimming output value (0%...100%)	1 bit	C R T U
This communication object is used to set dimming output value. Brightness increases from 0% to 100%.			
Constant Brightness B	Dimming output value (0%...100%)	1 bit	C R T U
This communication object is used to set dimming output value. Brightness increases from 0% to 100%.			

4.2. LIGHT CONTROL

Object Name	Function	Type	Flags
Light channel 1,2 slave input	Movement status from bus	1 bit	C W
This object, is used for the presence detector detects something in its detection zone. It will be send OFF-'0' or ON-'1' to the bus cycle, until does not detect any more movement. This function is often used to slave mode.			
Light channel 1,2 external input	External telegram	1 bit	C W
This object, is used to receive telegram from external device, the condition was reached by value "1"-True of receiving telegram; The condition was not reached by value "0"-False of receiving telegram.			
Light channel 1,2 time input	Follow-up time (minutes)	2 bytes	C W
This object, is used to set follow time via bus.			
Light channel 1,2 lux input	Brightness threshold	2 bytes	C W
This object, is used to set lux threshold via bus. You can change the lux threshold by via bus.			
Light channel 1,2 lock input	'1'-lock, '0'-unlock/'0'-lock, '1'-unlock	1 bit	C W
This object, is used to set light channel 1/2 lock status. When the value is "1" light channel 1/2 will be locked, when value is "0" light channel 1/2 will be unlocked.			
Light channel 1,2 output	Switching/Threshold 1byte	1 bit /1 byte	C R T
This object, is used for switching function, when the logic block was reached, it will send ON or OFF telegram to the bus. After the logic block was not reached and delay over, it will send OFF or ON telegram to the bus.			
Light channel 1,2 output	Lock status feedback	1 bit	C R T
This object, is used to set the lock status feedback. When "locked" or "unlocked" it will response different value.			

4.3. FUNCTION STATUS

Object Name	Function	Type	Flags
Function status	Slave status to bus	1 bit	C W T
This object, is used to respond status if detector detects something in its detection zone. When detects something it will response "on", else no response.			
Function status	Brightness (lux)value	2 bytes	C R T
This object, is used to respond the brightness value. You can set report lux value if lux changed, also you can set report lux value circularly.			
Function status	Temperature value	2 bytes	C R T
This object, is used to respond the temperature value. You can set report temperature value if temperature changed, also you can set report temperature value circularly.			
Function status	Slave status to bus (logic A)	1 bit	C W T

This object, is used to respond status if detector detects something in its detection zone for logic A. When detects something it will response “on”, else no response.

Function status	Dry contact 1 status	1 bit	C R T
-----------------	----------------------	-------	-------

This object is used to respond to the dry contact 1 state. If dry contact 1 is closed, the output is in the ON state, otherwise it is in the OFF state.

Function status	Dry contact 2 status	1 bit	C R T
-----------------	----------------------	-------	-------

This object is used to respond to the dry contact 2 state. If dry contact 1 is closed, the output is in the ON state, otherwise it is in the OFF state.

Function status	Slave status to bus (logic B,C,D)	1 bit	C W T
-----------------	-----------------------------------	-------	-------

This object, is used to respond status if detector detects something in its detection zone for logic B, C, D. When detects something it will respond “on”, else no response.

4.4. LOGIC FUNCTION A-E

Object Name	Function	Type	Flags
-------------	----------	------	-------

Object input A, B, C, D	Lux threshold A lower (0~1200)	2 bytes	C W T U
-------------------------	--------------------------------	---------	---------

This object, is used to change the lower lux threshold value.

Object input A, B, C, D	Lux threshold A upper (0~1200)	2 bytes	C W T U
-------------------------	--------------------------------	---------	---------

This object, is used to change the upper lux threshold value.

Object input A, B, C, D	Lux threshold B independent	1 bit	C W T U
-------------------------	-----------------------------	-------	---------

This object, is used to set output result independent lux threshold B. If lux between lower set lux value and upper set value will output true else output false.

Object input A, B, C, D	Lux threshold C independent	1 bit	C W T U
-------------------------	-----------------------------	-------	---------

This object, is used to set output result independent lux threshold C. If lux between lower set lux value and upper set value will output true else output false.

Object input A, B, C, D	Temperature threshold lower	2 bytes	C W T U
-------------------------	-----------------------------	---------	---------

This object, is used to set lower temperature value.

Object input A, B, C, D	Temperature threshold upper	2 bytes	C W T U
-------------------------	-----------------------------	---------	---------

This object, is used to set upper temperature value.

Object input A, B, C, D	External telegram 1	1 bit	C W U
	1 bit value ('1' / '0')	1 byte	
	1 byte value (0...255)	2 bytes	

	2 bytes threshold (0...65525)	2 bytes	
	2 bytes float threshold (-50°C-100°C)	4 bytes	
	4 bytes threshold (0...2147483647)		

This object is used to set external telegram 1. If you select 1 bit value, you will set 1 or 0 as true or false value, when input 1 or 0, will output true or false. If you select 1 byte value, when your input value \geq or \leq the set value(0 to 255) will output true or false result. If you select 2 bytes value, when your input value \geq or \leq the set value(0 to 65535) will output true or false result. If you select 2 bytes float threshold, when your input temperature value \geq or \leq the set value(-50°C to 100°C) will output true or false result. If you select 4 bytes threshold, when your input value \geq or \leq the set value(0 to 2147483647) will output true or false result.

Object input A, B, C, D	External telegram 2	1 bit	C W U
	1 bit value ('1' / '0')	1 byte	
	1 byte value (0...255)	2 bytes	
	2 bytes threshold (0...65525)	2 bytes	
	2 bytes float threshold (-50°C-100°C)	4 bytes	
	4 bytes threshold (0...2147483647)		

This object is used to set external telegram 2. If you select 1 bit value, you will set 1 or 0 as true or false value, when input 1 or 0, will output true or false. If you select 1 byte value, when your input value \geq or \leq the set value(0 to 255) will output true or false result. If you select 2 bytes value, when your input value \geq or \leq the set value(0 to 65535) will output true or false result. If you select 2 bytes float threshold, when your input temperature value \geq or \leq the set value(-50°C to 100°C) will output true or false result. If you select 4 bytes threshold, when your input value \geq or \leq the set value(0 to 2147483647) will output true or false result.

Object output A1, B1, C1, D1	Switch	1 bit	C R T U
	Absolute Dimming	1 byte	
	Shutter	1 bit	
	Alarm	1 bit	
	Percentage	1 byte	
	Sequence	1 bit	
	Scene	1 byte	
	String	14 byte	
	Threshold(1 byte)	1 byte	
	Threshold(2 bytes)	2 bytes	

This object, is used to set A1/B1/C1/D1 output function :

Switch : It is used for switching function, when the logic block was reached, it will send ON or OFF telegram to the bus. After logic block was not reached and delay over, it will send OFF or ON telegram to the bus.

Absolute Dimming : It is used for absolute dimming function, when the logic block was reached, it will send setting value to control brightness. After logic block was not reached and delay over, it will send another setting value.

Shutter : It is used for shutter function, when the logic block was reached, it will send Up or Down telegram to the bus. After the logic block was not reached and delay over, it will send Down or Up telegram to the bus.

Alarm : It is used for alarm function, when the logic block was reached, it will send Alarm or No alarm telegram to the bus. After the logic block was not reached and delay over, it will send No alarm or Alarm telegram to the bus.

Percentage : It is used for percentage function, when the logic block was reached, it will send setting value to control brightness. After the logic block was not reached and delay over, it will send another setting value.

Sequence : It is used for sequence function, when the logic block was reached, it will send start or stop telegram to the bus. After the logic block was not reached and delay over, it will send Stop or Start telegram to the bus.

Scene : It is used for scene function. 1 to 64 scene calls can be made.

String : It is used for string function, when the logic block was reached, it will send setting value to the bus. After the logic block was not reached and delay over, it will send another setting value.

Threshold(1 byte) : It is used for 1 byte threshold function, when the logic block was reached, it will send setting value 0-255 to bus. After the logic block was not reached and delay over, it will send another setting value.

Threshold(2 byte) : It is used for 2 byte threshold function, when the logic block was reached, it will send setting value 0-65535 to bus. After the logic block was not reached and delay over, it will send another setting value.

Object output A2, B2, C2, D2, E2	The same as above	The same as above	The same as above
Object output A3, B3, C3, D3, E3	The same as above	The same as above	The same as above
Object output A4, B4, C4, D4, E4	The same as above	The same as above	The same as above
Object output A5, B5, C5, D5, E5	The same as above	The same as above	The same as above
Object output A6, B6, C6, D6, E6	The same as above	The same as above	The same as above
Object output A7, B7, C7, D7, E7	The same as above	The same as above	The same as above
Object output A8, B8, C8, D8, E8	The same as above	The same as above	The same as above
Object output A9, B9, C9, D9, E9	The same as above	The same as above	The same as above
Object output A10, B10, C10, D10, E10	The same as above	The same as above	The same as above
Object input A1, B1, C1, D1, E1	Switch delay time on TRUE	2 byte	C W T

This object, is used to provide a logical state response. If the logic is true, the "true" response is delayed.

Object input A1, B1, C1, D1, E1	Switch delay time on FALSE	2 byte	C W T
---------------------------------	----------------------------	--------	-------

This object, is used to provide a logical state response. If the logic is true, the "false" response is delayed.

Object input A2, B2, C2, D2, E2	Dimming delay time on TRUE	2 byte	C W T
---------------------------------	----------------------------	--------	-------

This object, is used to provide a logical state response. If the logic is true, the "true" response is delayed.

Object input A2, B2, C2, D2, E2	Dimming delay time on FALSE	2 byte	C W T
---------------------------------	-----------------------------	--------	-------

This object, is used to provide a logical state response. If the logic is true, the "false" response is delayed.

Object input A3, B3, C3, D3, E3	Shutter delay time on TRUE	2 byte	C W T
---------------------------------	----------------------------	--------	-------

This object, is used to provide a logical state response. If the logic is true, the "true" response is delayed.

Object input A3, B3, C3, D3, E3	Shutter delay time on FALSE	2 byte	C W T
---------------------------------	-----------------------------	--------	-------

This object, is used to provide a logical state response. If the logic is true, the "false" response is delayed.

Logic A, B, C, D, E status	1-true / 0-false	1 bit	C R T
----------------------------	------------------	-------	-------

This object, is used to provide a logical state response. If logic is true, "true" response is given otherwise "false".

<1> Logic A, B, C, D, E function	Lock logic function	1 bit	C W T
----------------------------------	---------------------	-------	-------

This object, is used to lock logic, so you can lock or unlock logic status.

<2> Logic A, B, C, D, E function	Lock logic function	1 bit	C W T
----------------------------------	---------------------	-------	-------

This object, is used to lock logic, so you can lock or unlock logic status.

Logic A, B, C, D, E function	Lock status feedback	1 bit	C R T
------------------------------	----------------------	-------	-------

This object, is used to response logic lock status. If logic is locked or unlocked, it will response disable or enable.

4.5. DRY CONTACT FUNCTION

Object Name	Function	Type	Flags
Extend dry contact 1,2 / short,long	Switching	1 bit	C R T
	Dimming	4 bit	C R T
	Scene	1 byte	C R T
	Percentage	1 byte	C R T
	Led status	1 bit	C W T

This object is used to set the dry contact 1/2 function. If the switching function is selected, the dry contact controls for enabling/disabling. If the dimming function is selected, the dry contact controls the dimming function. If the scene function is selected, the dry contact makes a scene call between number 1 and 64. If the LED status function is selected, the dry contact performs the LED status control.

CONTACT INFORMATION

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