

KNX - PIR wiring device sensor







CONTENT	PAGE
■ 1. Use	
■ 2. Range	
■ 3. Technical features	
3.1 Electrical features	
3.2 Climatic features	2
3.3 Mechanical features	
■ 4. Dimensions	
■ 5. Connection	
■ 6. Removal	2
■ 7. Installation	
7.1 Sensor positioning	
7.2 Recommended light exposure	
■ 8. Operation	
■ 9. Settings. 9.1 Detection parameters	
9.2 Lighting parameters	
9.3 Other parameters	
9.4 Modifying the parameters using the configuration tools	
■ 10. Performance	
10.1 PIR Performance - Motion detection	
■ 11. Standards and approvals.	
11. Standards and approvals. 12. Maintenance	
■ 13. Communication objects. 13.1 List of objects.	
13.2 General parameters	
13.2.1 Main function - Master: Light level only	
13.2.2 Main function - Master: Detection only	10
13.2.4 Slave: Detection only	20
13.3 Load	21
13.3.1 Use dimming load	
13.3.3 Standby time base (function only available in Master mode: detection and Master: Light level & Deter	tion)
13.3.4 Use second load	25
13.4 Light level config	
13.4.1 Use external daylight cell	
13.5.1 Send Condition.	
13.6 Auxiliary output	
13.6.1 None	
13.6.3 Scaled values.	
13.6.4 HVAC Mode	
13.6.5 Scene	
13.7 Advanced.	
13.7.1 Sensitivity (only available for Master: Detection Only, Master: Light level & Detection and Slave: Detec	tion Only modes)35
13.7.2 System detection (only available for Master: Detection Only, Master: Light level & Detection and Slave	
13.7.3 Additional object for expert mode	
13.8.1 Use Virtual Keycard	
13.8.2 Virtual keycard function operating diagram	
13.9 Commissioning Tool. 13.10 Pushbutton.	
13.10.1 Pushbutton function	
■ 14. Application's examples	
14.1 Mode Auto ON/OFF – Load ON/OFF	46
14.2 Mode Auto ON/OFF – Dimming load	
14.3 Mode Manual ON/Auto OFF – Load ON/OFF	
14.5 Master/Slave detection	

1. USE

The KNX wiring devices sensors are passive infrared devices (PIR) suitable to detect motion and measure the daylight level.

They can be installed directly on wiring devices boxes according to the specific wiring devices series

They are suitable for indoor passage areas like corridors, bathrooms, technical rooms...

Throught its application program it is possible to configure all the working parameters such as daylight threshold, time delay, operating modes, technology sensibility... and it is possible to configure the following functions:

- Switching/dimming: auotmatically or manunally if associated with a control device
- Define a minimum/maximum dimming level
- Customize the dimming pace
- Trigger scenarios based on: presence/absence
- Work in master/slave configuration
- Define a daylight level to be maintained until presence is detected
- Manage more than one output with the same commands

All the KNX witing devices sensor already embed a push button

All the working parameters are configurable via ETS but is also possible to modify the main operating parameters (daylight threshold, time delay, technology sesnsibility...) via commissioning tool ref. 088230/ BMSO4001.

2. RANGE

	Description	Catalogue number
	KNX-Livinglight PIR wiring device sensor, anthracite	L4658KNX
	KNX-Livinglight PIR wiring device sensor, white	N4658KNX
	KNX-Livinglight PIR wiring device sensor, tech	NT4658KNX
	KNX-Axolute PIR wiring device sensor, tech	HC4658KNX
	KNX-Axolute PIR wiring device sensor, anthracite	HS4658KNX
	KNX-Axolute PIR wiring device sensor, white	HD4658KNX

3. TECHNICAL FEATURES

■ 3.1 Electrical features

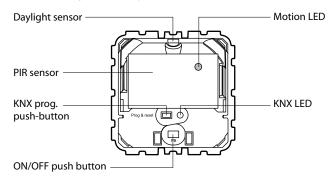
- KNX BUS power supply: 29 ==
- KNX BUS absorption: 16 mA (PIR)
- KNX connector (red/black): terminal capacity 4x (Ø 0,6 à 0,8 mm)

■ 3.2 Climatic features

- Environmental operating temperature: -5°C to +45°C
- Storage temperature: -25°C to +70°C

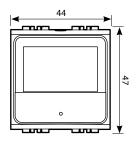
■ 3.3 Mechanical features

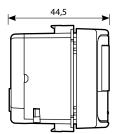
- Impact resistance: IK04
- Penetration by solid and liquid matter: IP20



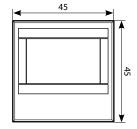
4. DIMENSIONS

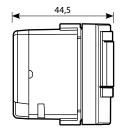
Livinglight





Axolute

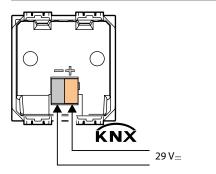




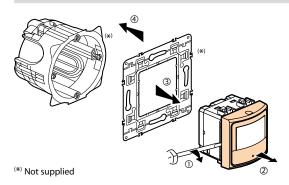
5. CONNECTION

KNX red/black connector





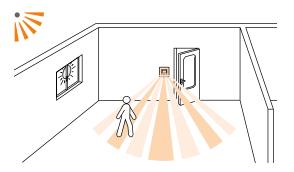
6. REMOVAL

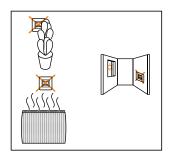


Technical data sheet: MM00868-b-EN

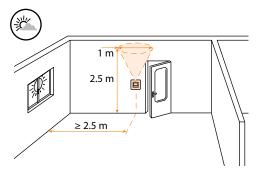
7. INSTALLATION

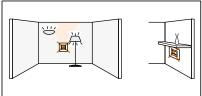
■ 7.1 Sensor positioning





■ 7.2 Recommended light exposure





CONTENTS

8. OPERATION

The KNX sensors offer many functions, on follows a summary of them (see section "Communication objects" for details):

Automatic or manual switching/dimming with constant daylight regulation

Possibility to control a second lighting level as a % of the main one maintaining a positive or negative offset.

Coupling several detectors: It is possible to set the sensors in Master or slave configuration in order to cover a larger area with a synchronized

Sending message on presence / absence: Upon presence/absence can be sent an additional command: switching command, values, scene...

Warning of end detection: After the time delay, the light can be conifgured to assume a standby level (for a standby time interval) as to warn of the imminent extinction.

Presence and brightness level Information is available on the bus: Values available for a supervision system.

Daylight setpoint and time delay modifiable by bus: Values which can be modified by a supervision system.

Partial on/Group off Mode:

It is possible to turn ON just a subset of lights but at the end of time delay turn OFF all the lights. Classroom example: Room Lighting: automatic switch ON; Board Lighting: manual control. On end detection, total extinction, room and board.

Virtual Keycard: Especially thought for hotels, the combination of presence sensors, door contacts and other informations (e.g. other detectors, push buttons...) allow determining the presence in the room and enpower some circuits in the room, launch scenarios or any other kind of logics.

The functions is triggered by the "door contact" event which launch the so called "Virtual keycard time delay", a time offset in which the sensor tries to understand if the room is occupied or not on the basis of some informations: sensor detection, window contact events, push buttons event. Once the result of the function is "occupied" it permains until there is another "Door contact event" which trigger another "Virtual keycard time delay" to understand the room status and eventually turn OFF the lights, launch an absence scenario or launch any other logic related to vacancy event.

The product global configuration is made via ETS (version 3 or upper) and it is also possible to modify the main operating parameters via commissioning tool 088230/BMSO4001 (see following section for futher

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9. SETTINGS

Following the main operating parameters modifiable via commissioning tool 088230/BMSO4001.

■ 9.1 Detection parameters

Sensor parameter		Default value	Possible values	Configuration tools 088230/ BMSO4001
Time	delay	15 min	5 s - 17 H 59 min 59 s	✓
Sensi	tivity	PIR (Very high)	Low, Medium, High, Very high	✓
ction	Initial	PIR	No modifiable	✓
Detection system	Maintain	PIR	No modifiable	✓

Time delay: It is the time interval between the moment in which a sensor does not detect motion/presence and the deactivation of the

The time period re-starts whenever the sensor detects motion/

Sensitivity: It is the detection technology sensitivity.

Detection system:

It is the set of technologies used for detection

Initial detection: it is the set of technologies used for the first detection Maintain: it is the set of technologies used after the first detection

■ 9.2 Lighting parameters

Sensor parameter	Default value	Possible values	Configuration tools 088230/ BMSO4001
Daylight setpoint	300 lux	5 - 1275 lux	✓

- Daylight setpoint: it is the lighting level under which the sensor enables the load and over which the sensor disables the load.
- **Eye function:** Value 0 (eye on configuration tool 088230/ BMSO4001) this function allows to record in the sensor the actual general lighting level and use it as daylight setpoint.

■ 9.3 Other parameters

Technical data sheet: MM00868-b-EN

Sensor parameter		value 08		Configuration tools 088230/ BMSO4001
Output	Standby delay (main load)	Disabled	Disabled/infinite/ 1 s - 1 h	✓
Out	Standby level (main load)	10 %	1 - 100 %	✓

Standby level: it is the level, expressed in % of the daylight setpoint, at which the load is keep turned ON during the standby delay.

Standby delay: it is the time interval in which the load is kept turned ON at the standby level. It begins as soon as the sensor does not detect motion/presence

9. SETTINGS (continued)

■ 9.4 Modifying the parameters using the configuration tools

• 0 882 40: Configuration gateway and Legrand Close Up application. The Close Up application is available on the Apple Store and the Play Store







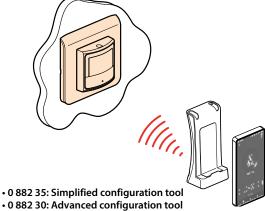


The detector functions are controlled by a number of parameters which can be changed or programmed by an infrared configurator.

In combination with configuration tool 0 882 40, the Legrand Close Up smartphone app can be used to view and modify all the detector parameters with online help.

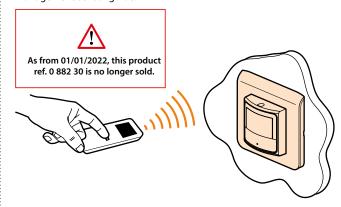
Point the infrared configuration tool at the detector and send the necessary programming commands to the unit as indicated in the table

For more information about setting parameters, refer to the data sheet for the configuration gateway Cat. No. 0 882 40.



When the sensor receives an IR command via a configuration tool, it emits a beep acknowledging the modification.

For more information about setting parameters, refer to the data sheet for the configuration tool Cat. No. 0 882 30 and the lighting management sensor guide.



• 088230/BMSO4001: Advanced configuration tool When the sensor receives an IR command via a configuration tool, the LED blinks.

- Restore to factory settings:

1st press: Short press on PROG, the LED flashes slowly.

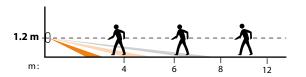
2nd press: Hold down PROG for 10 seconds until the LED flashes auickly.

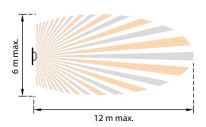
Created: 05/10/2015

CONTENTS

10. PERFORMANCE

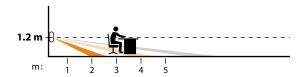
■ 10.1 PIR Performance - Motion detection

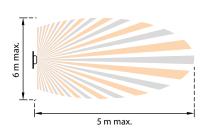




Sensitivity	m
Low (25%)	7
Medium (50%)	8
High (75%)	10
Very high (100%)	12

■ 10.2 PIR Performance - Presence detection





Sensitivity	m
Low (25%)	1
Medium (50%)	2
High (75%)	4
Very high (100%)	5

CONTENTS

11. STANDARDS AND APPROVALS

- Complies with standard IEC 60 669.2.1
- Marking: KNX, CE

12. MAINTENANCE

Clean the surface with a cloth.

Do not use acetone, tar-removing cleaning agents or trichloroethylene.

Always test before using other special cleaning products.

13. COMMUNICATION OBJECTS

■ 13.1 List of objects

Here are listed the communication objects active by default settings.

No.	Object name	Function	Size	Flags	
1	1 Switching Switching 1.001 D		1.001 DP_On/Off	СТ	
Switching telegrams are sent via the group address linked to this object					
2	Switching Status	Switching Status	1.001 DP On/Off	CWTU	

2	Switching Status	Switching Status	1.001 DP_On/Off	CWTU

Switching statuses are received via the group address linked to this object.

*If switching statuses are received but the Switching object has not been sent by the sensor, the regulation is stopped.

5	In Occupancy	In Occupancy	1.002 DP_Bool	CW		
In Occupancy statuses are received via the group address linked to this object.						
It will be used especially for connecting slave sensor and increase a detection						
zone (1	zone (13.5 Master/slave detection).					

True: The sensor reacts as if there is an internal detection False: No reaction

Occupancy status Occupancy status 1.002 DP_Bool

Out Occupancy statuses are sent via the group address linked to this object True: When motion is detected

False: After vacancy time delay, or occupancy if vacancy is not used

8	Out Lux	Out Lux	9.004 DP_Lux	CRT
Out Lux values are sent via the group address linked to this object.				
C	and the second s	FTC (Control on the		

16	Switching group off	Switching group off	1.001 DP_On/Off	CRT
Switchi	ing group off statuses	are sent via the group	address linked to this	obiect.

On vacancy is sent an OFF via the group adress linked to this object.

20	Out occupancy	Out occupancy	1.002 DP_Bool	CT
Out synchro Master-> Slave statuses are sent via the group address linked to this				

object

True: The maintain status is sent to the slave False: The initial status is sent to the slave

21 Enable Enable 1.003 DP_Enable C

Enable telegrams are received via the group address linked to this object. They are used to lock (disable) or unlock (enable) the corresponding input.

Created: 05/10/2015

Technical data sheet: MM00868-b-EN Updated: 09/11/2022

■13.2 General parameters

13.2.1 Main function - Master: Light level only

Parameters	Settings
Main function	Master: Light level only
	Master: Detection only
	Master: Light level & detection
	Slave: Detection only

Only load and light level can be configured in the associated page, and regulation is active

13.2.1.1 Mode

Auto on/Auto off mode

Comes on automatically: - At the detection of a presence if there is an insufficient natural level of light. Turns off automatically: - If no presence is detected and at the end of the time delay set. - Or if there is a sufficient natural level of light (activated setting).

Any new detection causes an automatic switch on if there is insufficient light.

Walkthrough

- If there is no presence detected in the 3 minutes following an initial detection, the product will cut off after 3 minutes.
- If a new presence is detected in the 3 minutes following the initial detection, the device will cut off at the end of the time delay set.

Manual on/Auto off mode: Comes on via a manual switch, automatic switch off: - Where no presence is detected and at the end of the time delay set.

Following switch-off any new detection within a 30 second period will cause the device to be switched on automatically.

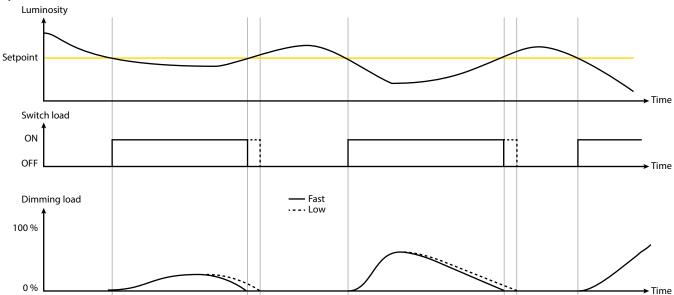
After 30 seconds the device is switched on via a manual switch.



Parameters	Settings	
Reaction speed	Very Low	
	Low	
	Normal	
	Fast	
	Very Fast	
This parameter determines the speed reaction of the régulation in dimming or switching		
Start regulation with power on	Yes	
	No	
This parameter determines if regulation is started with power on		

This parameter determines if regulation is started with power on

System behaviour:



Technical data sheet: MM00868-b-EN

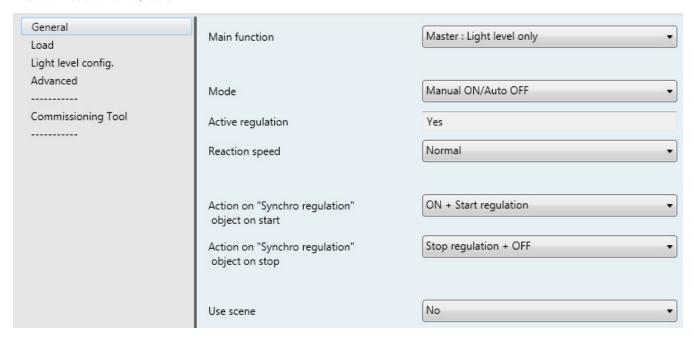
Updated: 09/11/2022

Created: 05/10/2015 **bticino**

■ 13.2 General parameters (continued)

13.2.1 Main function - Master: Light level only (continued)

13.2.1.2 Mode: Manual ON/Auto OFF



No.	Object name	Function	Size	Flags
13	Synchro regulation	Synchro regulation	1.010 DP_Start/stop	cw

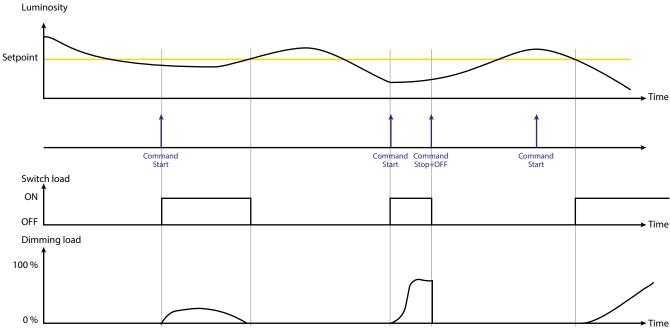
In Lux values are received via the group address linked to this object. Start and stop can be configured in ETS.

Message start/stop régulation is received to this object.

14	Regulation status	Regulation status	1.010 DP_Start/stop	CRT
Regulation statuses are sent via the group address linked to this object				

System behaviour:

Technical data sheet: MM00868-b-EN



Created: 05/10/2015

CONTENTS

■ 13.2 General parameters (continued)

13.2.1 Main function - Master: Light level only (continued)

13.2.1.2 Mode: Manual ON/Auto OFF (continued)

Parameters	Settings
Action on "Synchro regulation" object on start	Start regulation ON + Start regulation Stop regulation Stop regulation + ON Stop regulation + OFF No reaction
This parameter determines the regulation reaction when Start received. Start regulation: Regulation is run with no action on load ON + Start regulation: Regulation is run with ON action on load Stop regulation: Regulation is stopped with no action on load Stop regulation + ON: Regulation is stopped with ON action on load Stop regulation + OFF: Regulation is stopped with OFF action on load No reaction: No reaction	
Action on "Synchro regulation" object on stop	Start regulation ON + Start regulation Stop regulation Stop regulation + ON Stop regulation + OFF No reaction
This parameter determines the regulation reaction when Stop received. Start regulation: Regulation is run with no action on load ON + Start regulation: Regulation is run with ON action on load Stop regulation: Regulation is stopped with no action on load Stop regulation + ON: Regulation is stopped with ON action on load Stop regulation + OFF: Regulation is stopped with OFF action on load No reaction: No reaction	1
Use scene	No

Yes

 $\emph{No:}$ In scene regulation cannot be used, no accessible communication objects.

• Use scene → Yes

Use scene	Ves ▼
Scene A number (0: not used)	0
Scene A action	No reaction ▼
Scene B number (0: not used)	0
Scene B action	No reaction ▼
Scene C number (0: not used)	0
Scene C action	No reaction ▼
Scene D number (0: not used)	0
Scene D action	No reaction ▼
Scene E number (0: not used)	0
Scene E action	No reaction ▼

Created: 05/10/2015

Technical data sheet: MM00868-b-EN Updated: 09/11/2022 Created: 05/10/2015

CONTENTS 8/47

■ 13.2 General parameters (continued)

13.2.1 Main function - Master: Light level only (continued)

13.2.1.2 Mode: Manual ON/Auto OFF (continued)

• Use scene → Yes (continued)

When use scene is yes: this object communication is available.

Stop regulation + ON: Regulation is stopped with ON action on load Stop regulation + OFF: Regulation is stopped with OFF action on load

No reaction: No reaction

CONTENTS

No.	Object name	Function	Size	Flags
12	In_scene_ regulation	In_scene_ regulation	17.001 DP_Scene_ number	cw

8-bit auxiliary telegrams are received via the group address linked to this object. On scene telegram you can start/stop régulation with on/off (mode manuel On/ Auto Off).

Parameters	Settings
Scene A to E number	0-64
This parameter determines which scene (164) is to be recalled. If value "0" is set, no scene will be recalled	
Scene A to E action	Start regulation ON + Start regulation Stop regulation Stop regulation + ON Stop regulation + OFF No reaction
This parameter determines the regulation reaction when scene number is received. Start regulation: Regulation is run with no action on load ON + Start regulation: Regulation is run with ON action on load Stop regulation: Regulation is stopped with no action on load	

Created: 05/10/2015

Technical data sheet: MM00868-b-EN Updated: 09/11/2022

■ 13.2 General parameters (continued)

13.2.2 Main function - Master: Detection only

Parameters	Settings
Main function	Master: Light level only
	Master: Detection only
	Master: Light level & detection
	Slave: Detection only

Load, detection, early warning, AuxOutput and Advanced config can be configured in the various associated pages, and regulation is not active.

13.2.2.1 Mode: Auto ON/OFF

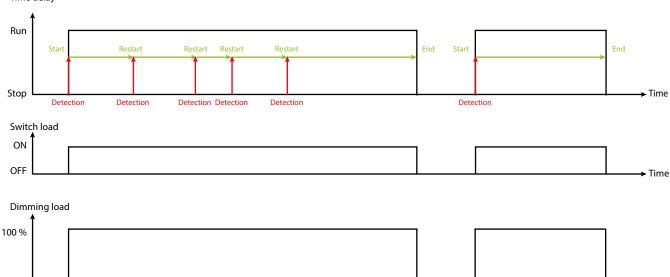


Parameters	Settings	
Active regulation	Yes	
	No	
No: No regulation possible		

System behaviour:

Time delay

0 %



Created: 05/10/2015

➤ Time

CONTENTS 10/47

■ 13.2 General parameters (continued)

13.2.2 Main function - Master: Detection only (continued)

13.2.2.2 Mode: Manual ON/Auto OFF

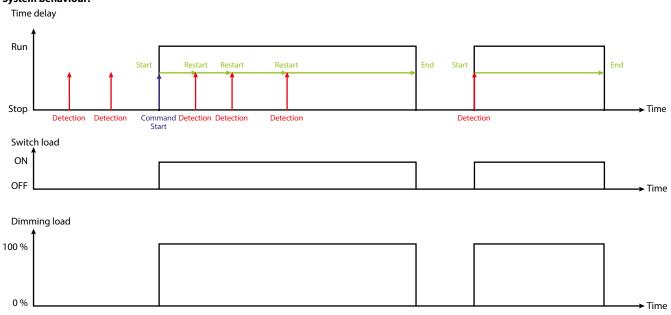


No.	Object name	Function	Size	Flags
13	Synchro on/off	Synchro on/off	1.010 DP_Start/stop	cw

Synchro on/off statuses are received via the group address linked to this object.

Parameters	Settings	
Active regulation	Yes	
	No	
No: No regulation possible		

System behaviour:



Created: 05/10/2015

Technical data sheet: MM00868-b-EN Updated: 09/11/2022

CONTENTS 11/47

■ 13.2 General parameters (continued)

13.2.3 Main function - Master: Light level & Detection

Parameters	Settings
Main function	Master: Light level only
	Master: Detection only
	Master: Light level & detection
	Slave: Detection only

Load, light level, detection, early warning, AuxOutput and Advanced config can be configured in the various associated pages.

13.2.3.1 Mode: Auto ON/OFF

The system runs automatically.

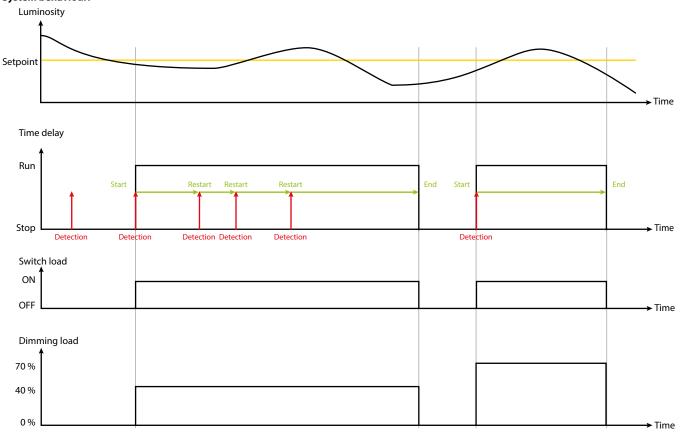


Parameters	Settings
Active regulation	Yes
	No

No: No regulation possible

Yes: The cell in the sensor will switch ON/OFF or dim its associated loads according to variations in the natural light

System behaviour:



Technical data sheet: MM00868-b-EN Updated: 09/11/2022 Created: 05/10/2015

CONTENTS 12/47

■ 13.2 General parameters (continued)

13.2.3 Main function - Master: Light level & Detection (continued)

13.2.3.1 Mode: Auto ON/OFF(continued)



Parameters	Settings		
Active regulation	Yes		
	No		
No: No regulation possible Yes: The cell in the sensor will switch ON/OFF or dim its associated loads according to variations in the natural light			
Reaction speed	Very Low		

Reaction speed	Very Low
	Low
	Normal
	Fast
	Very Fast

This parameter determines the speed reaction of the regulation in dimming or switching

When active régulation is yes: this object communication is available.

No.	Object name	Function	Size	Flags
10	In_Detection_	In_Detection_	1.003 DP_Enable	CRW
	enable	enable		

In detection enable statuses are received via the group address linked to this object.

Enable: The sensor is in Light level & detection mode

Disable: The sensor is in light level only mode Used to enable/disable the DETECTION ONLY, by a control schedule for example.

Created: 05/10/2015

Technical data sheet: MM00868-b-EN Updated: 09/11/2022

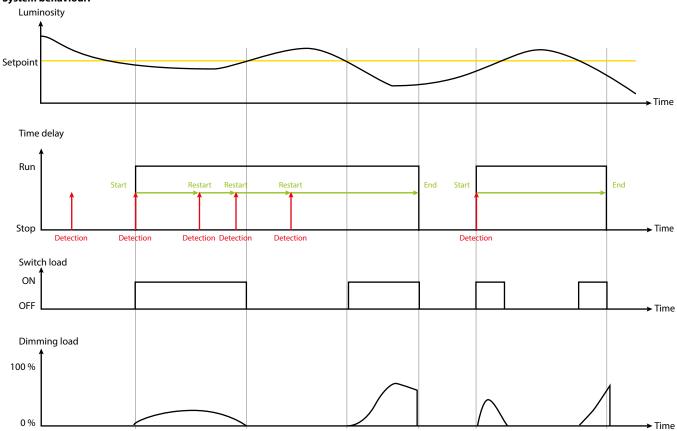
CONTENTS 13/47

■ 13.2 General parameters (continued)

13.2.3 Main function - Master: Light level & Detection (continued)

13.2.3.1 Mode: Auto ON/OFF(continued)

System behaviour:



13.2.3.2 Mode: AUTO Walkthrough



Parameters	Settings
Active regulation	Yes
	No
No: No regulation possible	
Yes: The cell in the sensor will switch ON/OFF or di	its associated loads according to variations in the natural light
Yes: The cell in the sensor will switch ON/OFF or dis	its associated loads according to variations in the natural light Very Low
	Very Low
	Very Low Low

This parameter determines the speed reaction of the regulation in dimming or switching

Created: 05/10/2015

CONTENTS 14/47

■ 13.2 General parameters (continued)

13.2.3 Main function - Master: Light level & Detection (continued)

13.2.3.3 Mode: Manual On/Auto Off

The system runs with manual operation.



No.	Object name	Function	Size	Flags
13	Synchro on/off	Synchro on/off	1.010 DP_Start/stop	cw

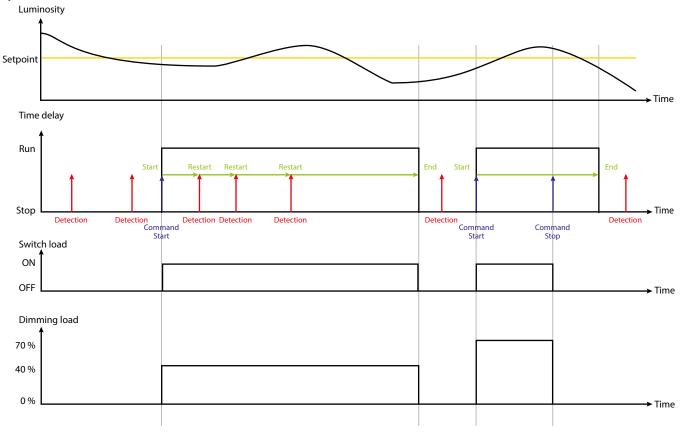
Synchro on/off statuses are received via the group address linked to this object

Parameters	Settings
Active regulation	Yes
	No

No: No regulation possible

Yes: The cell in the sensor will switch ON/OFF or dim its associated loads according to variations in the natural light

System behaviour:



Created: 05/10/2015 **bticing**

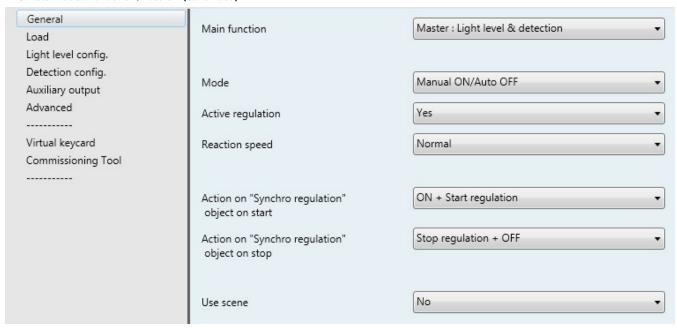
Technical data sheet: MM00868-b-EN Updated: 09/11/2022

CONTENTS 15/47

■ 13.2 General parameters (continued)

13.2.3 Main function - Master: Light level & Detection (continued)

13.2.3.3 Mode: Manual On/Auto Off (continued)



Parameters	Settings
Active regulation	Yes
	No

No: No regulation possible

 $\underline{\textit{Yes:}} \ \text{The cell in the sensor will switch ON/OFF or dim its associated loads according to variations in the natural light}$

When active régulation is yes: this object communication is available.

No.	Object name	Function	Size	Flags		
13	Synchro regulation Synchro regulation 1.010 DP_Start/stop					
In Lux statuses are received via the group address linked to this object. Start and stop can be configured in ETS.						
14	14 Regulation status Regulation status 1.010 DP_Start/stop CRT					
Regulation statuses are sent via the group address linked to this object						

Created: 05/10/2015 **bticino**

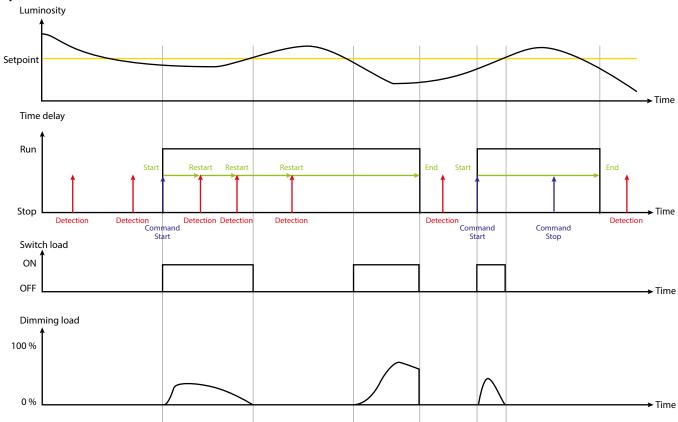
CONTENTS 16/47

■ 13.2 General parameters (continued)

13.2.3 Main function - Master: Light level & Detection (continued)

13.2.3.3 Mode: Manual On/Auto Off (continued)

System behaviour:



CONTENTS

■ 13.2 General parameters (continued)

13.2.3 Main function - Master: Light level & Detection (continued)

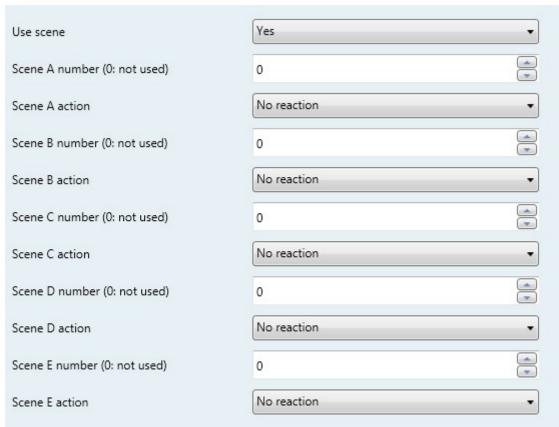
13.2.3.3 Mode: Manual On/Auto Off (continued)

Parameters	Settings
Reaction speed	Very Low Low Normal Fast Very Fast
This parameter determines the speed reaction of the regulation in dimming	g or switching
Action on "Synchro regulation" object on start	Start regulation ON + Start regulation Stop regulation Stop regulation + ON Stop regulation + OFF No reaction
This parameter determines the regulation reaction when Start received. Start regulation: Regulation is run with no action on load ON + Start regulation: Regulation is run with ON action on load Stop regulation: Regulation is stopped with no action on load	
Stop regulation + ON: Regulation is stopped with ON action on load Stop regulation + OFF: Regulation is stopped with OFF action on load No reaction: No reaction	
Stop regulation + OFF: Regulation is stopped with OFF action on load	Start regulation ON + Start regulation Stop regulation Stop regulation + ON Stop regulation + OFF No reaction
Stop regulation + OFF: Regulation is stopped with OFF action on load No reaction: No reaction	ON + Start regulation Stop regulation Stop regulation + ON

Technical data sheet: MM00868-b-EN Updated: 09/11/2022 Created: 05/10/2015

CONTENTS 18/47

- 13.2 General parameters (continued)
 - 13.2.3 Main function Master: Light level & Detection (continued)
 - 13.2.3.3 Mode: Manual On/Auto Off (continued)
 - Use scene → Yes



When use scene is yes: this object communication is available.

No.	Object name	Function	Size	Flags
12	In_scene_	In_scene_	17.001 DP_Scene_	cw
	regulation	regulation	number	

8-bit auxiliary telegrams are received via the group address linked to this object

Parameters	Settings
Scene A to E number	0-64
This parameter determines which scene (164) is to be recalled. If value "0" is set, no scene will be recalled	
Scene A to E action	Start regulation ON + Start regulation Stop regulation Stop regulation + ON Stop regulation + OFF No reaction
This parameter determines the regulation reaction when scene number is received. Start regulation: Regulation is run with no action on load ON + Start regulation: Regulation is run with ON action on load Stop regulation: Regulation is stopped with no action on load Stop regulation + ON: Regulation is stopped with ON action on load Stop regulation + OFF: Regulation is stopped with OFF action on load No reaction: No reaction	

Created: 05/10/2015

Technical data sheet: MM00868-b-EN Updated: 09/11/2022

CONTENTS 19/47

■ 13.2 General parameters (continued)

13.2.4 Slave: Detection only

Parameters	Settings
Main function	Master: Light level only
	Master: Detection only
	Master: Light level & detection
	Slave: Detection only

You can configure the detection, Advance config in the different page associated, and regulation is not active. You can associate the sensors with the sensor master to extend the detection zone, see the configuration § 13.5.



Created: 05/10/2015

CONTENTS 20/47

■13.3 Load

Page only available for Master: Light level Only, Master: Detection Only and Master: Light level & Detection modes.

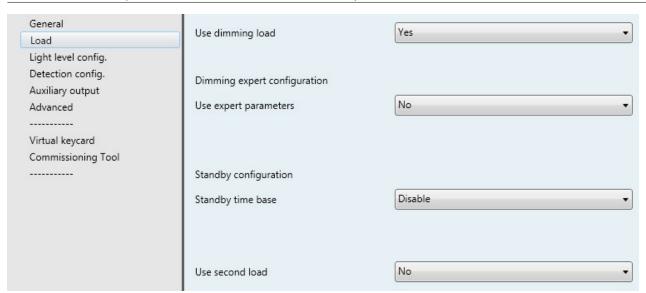
No.	Object name	Function	Size	Flags
1	1 Switching Switching 1.001 DP_On/Off		1.001 DP_On/Off	СТ
Switching telegrams are sent via the group address linked to this object				
2	2 Switching Status Switching Status 1.001 DP_On/Off CWTU			

Switching statuses are received via the group address linked to this object.

13.3.1 Use dimming load

Parameters	Settings
Use dimming load	Yes
	No

No: Level, level status and In_Sync_Dim cannot be used, no accessible communication objects



No.	Object name	Function	Size	Flags
3	Level	Level	5.001 DP Percentage	СТ
Level te	Level telegrams are sent via the group address linked to this object			
4	Level status	Level status	5.001 DP Percentage	CWTU
Level s	Level statuses are received via the group address linked to this object.			
	*If Level statuses are received but the Level object has not been sent by the sensor, the regulation is stopped.			he
9	In Synchro dimming	In Synchro dimming	3.007 DP_dimming control	cw

In override dimming values are received via the group address linked to this object. Any value received on this object is considered to be an override.

Created: 05/10/2015

CONTENTS 21/47

^{*}If switching statuses are received but the Switching object has not been sent by the sensor, the regulation is stopped.

■ 13.3 Load (continued)

13.3.2 Use expert parameters

Parameters only available for Master Light level Only and Master Light level & Detection modes.

Parameters	Settings
Dimming expert configuration	Yes
	No
No: Use for the current load type	

General Yes Use dimming load Load Light level config. Detection config. Dimming expert configuration Auxiliary output Yes Use expert parameters Advanced Minimum level 10 Virtual keycard Commissioning Tool Maximum level 100 5 Time from Off to On (100%) state Load curve Linear Standby configuration Disable Standby time base No Use second load

When dimming expert configuration is yes: this object communication is available.

No.	Object name	Function	Size	Flags
24	Syncro_	Syncro_	5.001 DP Percentage	CRW
	MinimumLevel	MinimumLevel		

 $\label{lem:condition} Synchro_Minimum Level\ values\ are\ received\ via\ the\ group\ address\ linked\ to\ this\ object$

Settings
0-100
0-100
1-60
nge from OFF to ON (0% to 100%)
Linear Type 1 (DALI) Custom Reserved Reserved

Technical data sheet: MM00868-b-EN Updated: 09/11/2022 Created: 05/10/2015

CONTENTS 22/47

■ 13.3 Load (continued)

13.3.3 Standby time base (function only available in Master mode: detection and Master: Light level & Detection)

Parameters only available for Master Light level Only and Master Light level & Detection modes.

• Standby configuration:

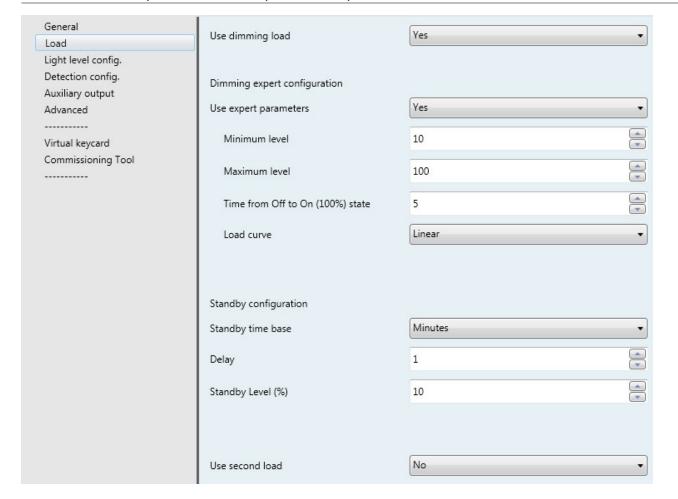
You alert the user to the switch off the light: after the last detection (plus detection time delay) you can reduce the level of light.

Parameters	Settings
Standby time base	Disable
	Infinite
	Seconds
	Minutes
Disable: Standby is not active	

Infinite: At the end of time delay the load decreases to standby level for an infinite time

Seconds: At the end of time delay the load decreases to standby level for the standby time in seconds

Minutes: At the end of time delay the load decreases to standby level for the standby time in minutes



Created: 05/10/2015

CONTENTS 23/47

■ 13.3 Load (continued)

13.3.3 Standby time base (function only available in Master mode: detection and Master: Light level & Detection) (continued)

Standby time base → Seconds

A standby function, in seconds, is used. At the end of time delay the load decreases to standby level for the standby time in seconds.

Parameters	Settings	
Delay	0-60	
This parameter determines the time for the standby in seconds		
Standby level 0-100		
This parameter determines the standby level (default value 10%)		

• Standby time base → Minutes

A standby function, in minutes, is used. At the end of time delay the load decreases to standby level for the standby time in minutes.

Parameters	Settings	
Delay 0-60		
This parameter determines the time for the standby in minutes		
Standby level	0-100	
This parameter determines the standby level (default value 10%)		

• Standby time base → Infinite

An infinite standby function is used. At the end of time delay the load decreases to standby level for an infinite time.

Parameters	Settings	
Standby level	0-100	
This parameter determines the standby level (default value 10%)		

Technical data sheet: MM00868-b-EN Updated: 09/11/2022 Created: 05/10/2015

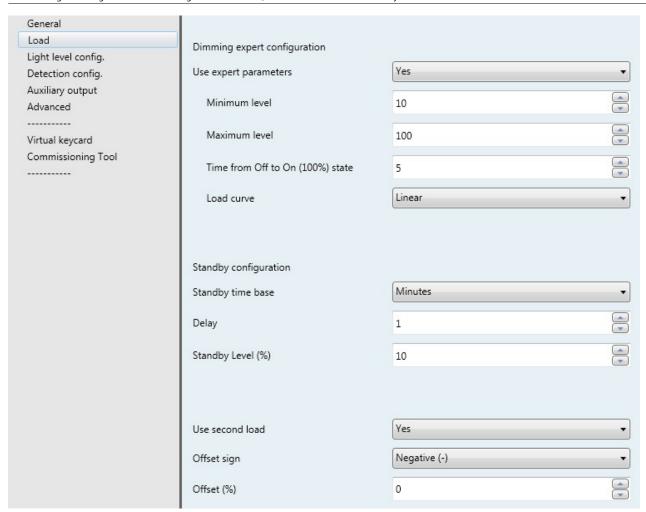
CONTENTS 24/47

■ 13.3 Load (continued)

13.3.4 Use second load

Parameters	Settings
Use second load	Yes
	No

No: Switching second light and level second light cannot be used, no accessible communication objects



When use second load is yes: this object communication is available.

No.	Object name	Function	Size	Flags
22	Switching second light	Switching second light	1.001 DP_On/Off	CRT

Switching second light telegrams are sent via the group address linked to this object. Used to pilot on On/Off 2^{nd} light with an offset compared to 1^{st} load.

Level second light telegrams are sent via the group address linked to this object. Used to pilot on dimming 2^{nd} light with an offset compared to 1^{st} load.

Parameters	Settings	
Offset sign	Negative	
-	Positive	
This parameter determines the sign of the offset value		
Offset (%)	0-100	

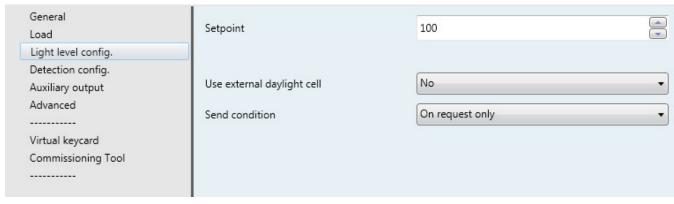
Technical data sheet: MM00868-b-EN Updated: 09/11/2022 Created: 05/10/2015

■13.4 Light level config

 $Page\ only\ available\ for\ Master: Light\ level\ Only\ and\ Master: Light\ level\ \&\ Detection\ modes.$

Parameters	Settings
Setpoint	0 Lux 100 Lux 1275 Lux

This parameter represents the set luminosity threshold to be maintained. It is expressed in Lux



13.4.1 Use external daylight cell

For light régulation you choose if you use lux value measured by the sensor (No) or you can use an external daylight cell (Yes) see below.

Parameters	Settings	
Use external daylight cell	No	
	Yes	
Send condition	On request only	
	On change	
	Cyclical	
	On change + Cyclical	

On request only: The object value is updated but not sent
On change: The object value is sent when it changes

Cyclical: The object value is sent cyclically

On change + Cyclical: The object value is sent when it changes and cyclically

No.	Object name	Function	Size	Flags
8	Out Lux	Out Lux	9.004 DP_Lux	CRT

Out Lux values are sent via the group address linked to this object. Send operations can be set in ETS (Cyclical, on change, on request)

Created: 05/10/2015

CONTENTS 26/47

■13.4 Light level config (continued)

13.4.1 Use external daylight cell (continued)

On change

Parameters	Settings	
Max. number of messages per minute 1-60		
This parameter determines the maximum number of messages per minute		
Dead band 1-100		
This parameter determines the percentage variation for validating a change		

Cyclical

The object value is sent cyclically

Parameters	Settings
Cyclical interval (seconds)	1-255
This parameter determines the timebase for sending lux in seconds	

On change + Cyclical			
Parameters	Settings		
Cyclical interval (seconds)	1-255		
This parameter determines the timebase for sending lux in seconds			
Max. number of messages per minute	1-60		
This parameter determines the maximum number of messages per minute. The value must be higher than the timebase/60.			
Dead band	1-100		
This parameter determines the percentage variation for validating a change	·		

When use external daylight cell is yes: this object communication is available.

No.	Object name	Function	Size	Flags
7	In Lux	In Lux	9.004 DP_Lux	cw

In Lux values are received via the group address linked to this object. The sensor reacts as if it had an internal daylight cell

Warning: When an external daylight cell is used, the provision of light must be set with the IR commissioning tool.

Created: 05/10/2015

CONTENTS 27/47

■13.5 Detection config

Page only available for Master Detection Only and Master Light level & Detection modes.

No.	Object name	Function	Size	Flags
5	In Occupancy	In Occupancy	1.002 DP_Bool	cw

In Occupancy statuses are received via the group address linked to this object.

True: The sensor reacts as if there was an internal detection

False: No reaction

6	Out Occupancy	Out Occupancy	1.002 DP_Bool	CRT
Out Occupancy statuses are sent via the group address linked to this object				

True: When motion detected False: After vacancy time delay, or occupancy if vacancy is not used

20	Out Synchro Master → Slave	Out Synchro Master → Slave	1.002 DP_Bool	СТ

Out synchro Master-> Slave statuses are sent via the group address linked to this

True: The maintain status is sent to the slave False: The initial status is sent to the slave

Technical data sheet: MM00868-b-EN

General Load	Use detection led	No	•
Light level config.			
Detection config.		T	
Auxiliary output	Time delay : hours	0	
Advanced	Time delay : minutes	15	<u></u>
Virtual keycard Commissioning Tool	Time delay : seconds	0	•
	Transfer In Occupancy" to "Occupancy status"	No	•
	Send condition	On request only	•

Parameters	Settings
Use detection LED	Yes
	No
This parameter determines whether or not the detection LED is to	be used when detection is active
Time delay: hours	0-17
This parameter determines the hours of the time delay	
Time delay: minutes	0-59
This parameter determines the minutes of the time delay	
Time delay: seconds	0-59
This parameter determines the seconds of time delay. If the total va	alue is less than 5 s the time delay is automatically set to 5 s
Transfer In Occupancy to "Occupancy Status"	Yes
	No

This parameter determines how many "presence events" are transmitted on the bus. Is "yes" the presence events of all sensors being part of the master-slave configuration are passed on the KNX/BUS; This configuration is useful for an external supervisor. If "no" only the presence event of the master sensor is passed on the KNX/BUS Yes: you have the occupancy status for each sensors: master and slaves .usefull for examplle in supervision

No: you have one occupancy status for all sensors of the detection zone. You can use it to pilot a corridor for example.

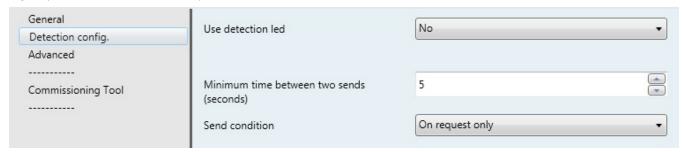
Created: 05/10/2015

CONTENTS 28/47

■ 13.5 Detection config (continued)

13.5.1 Send Condition

Page only available for Slave Detection Only mode.



Parameters	Settings
Send condition	On request only
	On change
	Cyclical
	On change + Cyclical
On request only: The object value is updated but not sent	

On request only: The object value is updated but not sent On change: The object value is sent when it changes Cyclical: The object value is sent cyclically

On change + Cyclical: The object value is sent when it changes and cyclically

On request only

The object value is updated but not sent

On change

The object value is sent when detection is validated

Parameters	Settings
Max. number of messages per minute	1-60
This parameter determines the maximum number of messages per minute	

Cyclical

The object value is sent cyclically

Parameters	Settings	
Cyclical interval (seconds)	1-255	
This parameter determines the timehase for sending luy in seconds		

On change + Cyclical

Parameters	Settings		
Cyclical interval (seconds)	1-255		
This parameter determines the timebase for sending lux in seconds			
Max. number of messages per minute 1-60			
This was a state of the state o			

This parameter determines the maximum number of messages per minute.

The value must be higher than the timebase/60.

Created: 05/10/2015

CONTENTS 29/47

■13.6 Auxiliary output

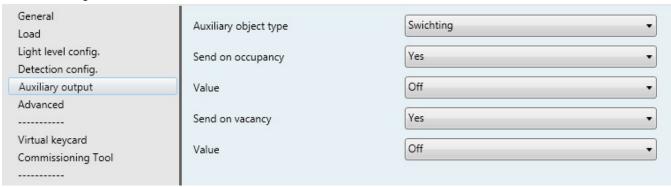
Page only available for Master: Detection Only, Master: Light level & Detection and Slave: Detection Only modes

Parameters	Settings
Auxiliary object type	None
	Switchting
	Scaled value
	HVAC Mode
	Scene
	2 bytes value

13.6.1 None

The auxiliary output cannot be used, no accessible communication objects.

13.6.2 Switching



No.	Object name	Function	Size	Flags
11	Switching Auxiliary	Switching Auxiliary	1.001 DP_On/Off	СТ

Switching Auxiliary telegrams are sent via the group address linked to this object

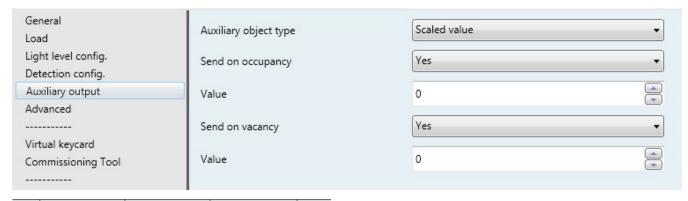
Parameters	Settings	
Send on Occupancy	Yes	
-	No	
This parameter determines the reaction of the auxiliary on occupancy		
Value	On Off	
This parameter determines the value to send on occupancy		
Send on Vacancy Yes		
	No	
This parameter determines the reaction of the auxiliary on vacancy		
Value	On Off	
This parameter determines the value to send on occupancy	·	

Technical data sheet: MM00868-b-EN Updated: 09/11/2022 Created: 05/10/2015

CONTENTS 30/47

■ 13.6 Auxiliary output (continued)

13.6.3 Scaled values



No.	Object name	Function	Size	Flags
11	Scaling Auxiliary	Scaling Auxiliary	5.001 DP_Scaling	cw

Scaling Auxiliary telegrams are sent via the group address linked to this object

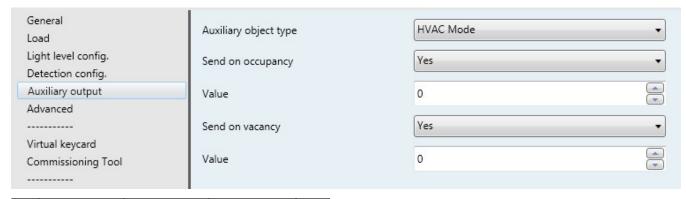
Parameters	Settings		
Send on Occupancy	Yes		
	No		
This parameter determines the reaction of the auxiliary on occupancy			
	0-100		
This parameter determines the value to send on occupancy			
Send on vacancy	Yes		
	No		
This parameter determines the reaction of the auxiliary on vacancy			
	0-100		
is parameter determines the value to send on vacancy			

Created: 05/10/2015 **bticing**

CONTENTS 31/47

■ 13.6 Auxiliary output (continued)

13.6.4 HVAC Mode



No.	Object name	Function	Size	Flags
11	HVAC Mode	HVAC Mode	20.102 DP_ HVACMode	cw

Percent auxiliary telegrams are sent via the group address linked to this object

Parameters	Settings	
Send on Occupancy	Yes	
	No	
This parameter determines the reaction of the auxiliary on o	ccupancy	
Value	0-255	
This parameter determines the value to send on occupancy		
Send on vacancy Yes		
•	No	
This parameter determines the reaction of the auxiliary on vacancy		
	0-255	
This parameter determines the value to send on vacancy		

Created: 05/10/2015

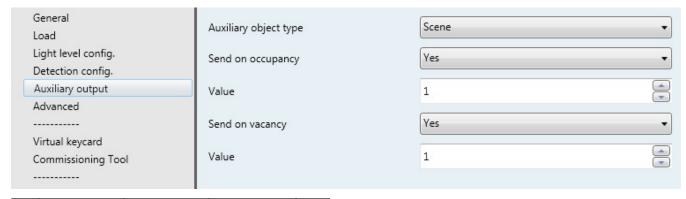
32/47

Technical data sheet: MM00868-b-EN Updated: 09/11/2022 **CONTENTS**

■ 13.6 Auxiliary output (continued)

13.6.5 Scene

CONTENTS



No.	Object name	Function	Size	Flags
11	8-bit scene Auxiliary	8-bit scene Auxiliary	17.001 DP_ SceneNumber	cw

8-bit scene auxiliary telegrams are sent via the group address linked to this object

Parameters	Settings		
Send on Occupancy	Yes		
• •	No		
This parameter determines the reaction of the auxiliary on occupancy	his parameter determines the reaction of the auxiliary on occupancy		
	1-64		
This parameter determines which scene (164) to send on occupancy. If value "0" is set, no scene will be recalled.			
Send on vacancy Yes			
	No		
This parameter determines the reaction of the auxiliary on vacancy			
ue 1-64			
This parameter determines which scene (164) to send on vacancy. If value "0" is set, no scene will be recalled.			

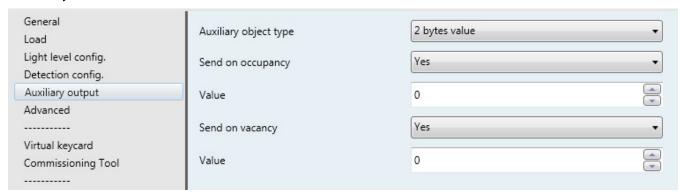
Created: 05/10/2015

33/47

Technical data sheet: MM00868-b-EN Updated: 09/11/2022

■ 13.6 Auxiliary output (continued)

13.6.6 2 bytes value



No.	Object name	Function	Size	Flags
11	2-byte unsigned	2-byte unsigned	9.001 DP_Value_	CRT
	Auxiliary	Auxiliary	Temp	

2-bytet unsigned auxiliary telegrams are sent via the group address linked to this object

Parameters	Settings	
Send on Occupancy	Yes	
	No	
This parameter determines the reaction of the auxiliary on occupancy		
Value	e 0-65535	
This parameter determines the value to send on occupancy		
Send on vacancy Yes		
·	No	
This parameter determines the reaction of the auxiliary on vacancy		
Value	0-65535	
his parameter determines the value to send on vacancy		

Created: 05/10/2015

CONTENTS 34/47

■13.7 Advanced

Page only available for Master: Detection Only, Master: Light level Only and Master: Light level & Detection modes.



13.7.1 Sensitivity (only available for Master: Detection Only, Master: Light level & Detection and Slave: Detection Only modes)

Parameters	Settings	
US sensitivity	Low	
	Medium	
	High	
	Very high	
This parameter determines the sensitivity of ultrasound sensors		
PIR sensitivity Low		
•	Medium	
High		
	High	
	High Very high	

13.7.2 System detection (only available for Master: Detection Only, Master: Light level & Detection and Slave: Detection Only modes)

Parameters	Settings	
Initial scheme	PIR only	
	US only	
	PIR and US	
	PIR or US	
This parameter determines the sensor detection system for initialising motion detection		
Maintain scheme PIR only		
	US only	
PIR and US		

Technical data sheet: MM00868-b-EN Updated: 09/11/2022 Created: 05/10/2015

CONTENTS 35/47

■13.8 Advanced (continued)

13.7.3 Additional object for expert mode

Here shuold be explained the 2 objects "Additional object: setpoint" and "Additional object: Time delay"

With these 2 "Additional object, you change parametrs setpoint and Time delay" of the sensors by a supervisor for example.

Parameters	Settings	
Additional Objec: setpoint	No	
	Yes	
No: Additional object cannot be used, no accessible communication objects		
Additional Objec: Timedelay No		
	Yes	
Vo: Additional object cannot be used, no accessible communication objects		

When additional object setpoint and time delay is yes: this object communication is available.

No.	Object name	Function	Size	Flags
15	Setpoint	Setpoint	9.004 DP_Lux	CRW

Occupancy setpoints are received via the group address linked to this object. You can change day light level via the group adress linked to this object. *Only accessible if internal or external daylight cell is used.

17	TimeDelay	TimeDelay	7.005 DP_Time_	CRW
			Period_Sec	

Occupancy TimeDelays are received via the group address linked to this object. If the value received is less than 5 s the time delay is set automatically to 5 s. You can change the value by supervisor.

If the value received.

19 Recall Recall 1.010 DP_Start/stop CW

Recalls are received via the group address linked to this object.

Start: Recalls the initial values of Setpoint and TimeDelay; the values configurated before the changes operated via objects.

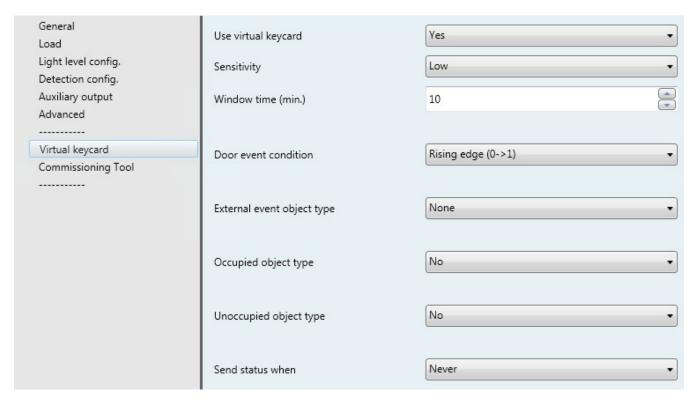
Created: 05/10/2015 **bticing**

Updated: 09/11/2022 **CONTENTS** 36/47

■13.8 Virtual Keycard

The function is triggered by the "door contact" event which launch the so called "Virtual keycard time delay", a time offset in which the sensor understand if the room is occupied or not, based on some informations: sensor detection, door contact events, push buttons event. Once the result of the function is "occupied" it remains until there is another "Door contact event" which trigger another "Virtual keycard time delay" to understand the room status and eventually turn OFF the lights, launch an absence scenario or launch any other logic related to vacancy event.

Page only available for Master Detection Only and Master Light level & Detection modes.



13.8.1 Use Virtual Keycard

Parameters	Settings	
Use virtual keycard	No	
	Yes	
No: The virtual keycard function cannot be used, no accessible communication objects		

When use virtualkeycard is yes: this object communication is available.

No.	Object name	Function	Size	Flags
31	Virtual Keycard	Door contact	1.001 DP_On/Off	CRWTU
VKC_Door_contact telegrams are received via the group address linked to this object				
33	Virtual Keycard	Status	1 bit	СТ
VKC Statuses are sent via the group address linked to this object				
36 Virtual Keycard In detection 1.003 DP_Boolean C		cw		
VKC in detection telegrams are received via the group address linked to this				

VKC in detection telegrams are received via the group address linked to this object

With object 36 is possible to associate others sensors and extend the detection zone of the first sensor.

Created: 05/10/2015

CONTENTS 37/47

■ 13.8 Virtual Keycard (continued)

13.8.1 Use Virtual Keycard (continued)

13.8.1.1 Sensitivity

Parameters	Settings
Sensitivity	Low
	Medium
	High
	Very high

This parameter determines the numbers of detections needed to confirm presence.

Low: 5 detections in 20 seconds

Medium: 4 detections in 20 seconds

High: 3 detections in 20 seconds

Very high: 2 detections in 20 seconds

13.8.1.2 Window time (min)

Parameters	Settings
Window time (min)	3-255

This parameter is the "Virtual keycard time delay". It determines the delay after a door contact in which the sensor check if there is presence and change the status from absence (object status=0) to presence (object status=1).

13.8.1.3 Door event condition

Parameters	Settings
Door event condition	Rising edge 0 → 1
	Falling edge 1 → 0

This parameter determines the door event condition on the VKC door contact object. It determines if the α door contact event » is measured on the rising or falling edge

No.	Object name	Function	Size	Flags
31	Virtual Keycard	Door contact	1.001 DP_On/Off	CRWTU

VKC_Door_contact telegrams are received via the group address linked to this object

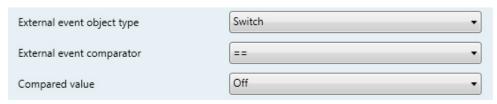
Created: 05/10/2015 **bticino**

CONTENTS 38/47

■ 13.8 Virtual Keycard (continued)

13.8.1 Use Virtual Keycard (continued)

13.8.1.4 External event object type



Parameters	Settings
External event object type	None
	Switch
	Scaled value
	Scene
	2-bytes
	4-bytes
This parameter determines the Data point type of the VKC external object.	
This object is used to improve the function effectiveness, it is an additional object used to confirm the presence information. It can be a	

This object is used to improve the function effectiveness, it is an additional object used to confirm the presence information. It can be a command switch, detection in the room, window contact...

External event comparator	== (equal)
	!= (different)
	< (less than)
	<=(less than or equal)
	>(greater than)
	>=(greater than or equal)
This parameter determines the type of comparison between the value on a VKC external object and the value to be compared	

Compared value	On (Switch)
•	Off (Switch)
	0-100 (Scaled value)
	1-64 (Scene)
	0-64 (Scene)
	0-65535 (2-bytes)
	0.420406720E (4 butos)

This is the type of value to be compared

No.	Object name	Function	Size	Flags
32	Virtual Keycard	External event	DPT depend on the choice made in the settings	cw

VKC_external event telegrams are received via the group address linked to this object. DPT depend on the choice made in the settings

Created: 05/10/2015 **bticing**

CONTENTS 39/47

■ 13.8 Virtual Keycard (continued)

13.8.1 Use Virtual Keycard (continued)

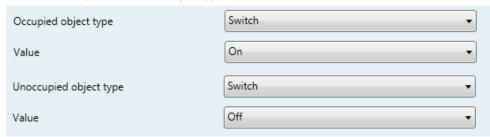
13.8.1.5 Occupied and Unoccupied object type

Action on presence and absence event.



Parameters	Settings
Occupied object type	No
	Switch
	Scaled value
	HVAC Mode
	Scene
	2-bytes value
This parameter determines the Data point type of the VKC	presence action object
	On (Switch)
value	Off (Switch)
	0-100 (Scaled value)
	0-255 (HVAC Mode)
	1-64 (Scene)
	0-65535 (2-bytes)
Value to send to the VKC occupied object	
Illus assuminad to manachinat	No
Unoccupied type object	1 222
	Switch Scaled value
	HVAC Mode
	Scene
	2-bytes value
This parameter determines the Data point type of the VKC	•
This parameter determines the Data point type of the Vic	. absence action object
Value	On (Switch)
	Off (Switch)
	0-100 (Scaled value)
	0-255 (HVAC Mode)
	1-64 (Scene)
	0-65535 (2-bytes)
Value to send to the VKC Unoccupied object	·

• Example with a Switch object type



No.	Object name	Function	Size	Flags		
34	Virtual Keycard	VKC_presence_ action_1bit	Switch	СТ		
VKC presence actions are sent via the group address linked to this object. DPT depend on the choice made in the settings						

35	Virtual Keycard	VKC_absence_ action_1bit	Switch	СТ

VKC absence actions are sent via the group address linked to this object. DPT depend on the choice made in the settings

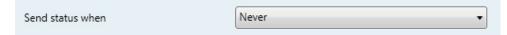
Technical data sheet: MM00868-b-EN Updated: 09/11/2022 Created: 05/10/2015

CONTENTS 40/47

■ 13.8 Virtual Keycard (continued)

13.8.1 Use Virtual Keycard (continued)

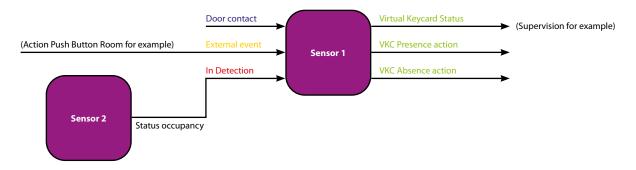
13.8.1.6 Send status when



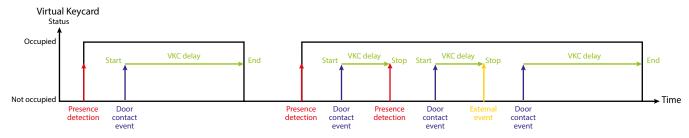
Parameters	Settings
Send status when	Never
	Occupied only
	Unoccupied only
	Occupied & unoccupied

This parameter determines when to send a value on the VKC status object Never: No value sent to VKC status, but can be read on request Occupied: Only occupied is sent to VKC status (Occupied) Unoccupied: Only unoccupied is sent to VKC status (Not occupied) Occupied & unoccupied: Both are sent to VKC status (Occupied and Not occupied)

13.8.2 Virtual keycard function operating diagram



Virtual keycard behaviour:

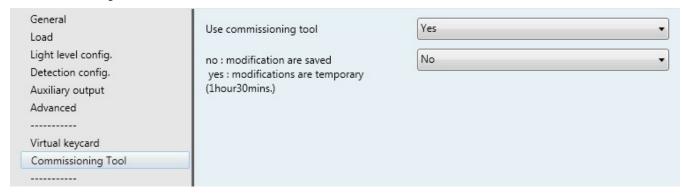


VKC function is triggered by "door contact" event after which begins the "VCK time delay" to understand if there is or not presence in the room. If during this time offset nothing is detected the result of the function is "vacancy" and the logics tied to the VKC function are not activated (first half of the above diagram). In case of detection during the time offset the result of the function is "occupancy", the "VKC time delay" is stopped and the related logics are triggered (second half of the above diagram). The VCK time delay restarts after another "door contact event". During the "VCK time delay" the "occupancy "status can be determined by the combination ofmore events: presence sensor "detection event" or external events (window contact, push-button pressure...).

Created: 05/10/2015

CONTENTS 41/47

■ 13.9 Commissioning Tool



Parameters	Settings			
Use commissioning tol	Yes			
	No			
No: The sensor parameters can be only read with the commissioning tool				
Yes: The sensor parameters can be changed with the commissioning tool				
No: modification are saved	No			
	Yes			

No: Modifications are saved to the memory but change when a new application with ETS is downloaded

Yes: Modifications are applied for 1 hour 30 minutes after the product has reloaded the default value; or if the product is disconnected from the bus, the default value is reloaded when the product is reconnected

Created: 05/10/2015 **bticino**

CONTENTS 42/47

■13.10 Pushbutton

13.10.1 Pushbutton function

13.10.1.1 Function: Not used

The pushbutton cannot be used, no accessible communication objects

13.10.1.2 Function: Switching



No.	Object name	Function	Size	Flags
25	BP_ Switching	Switching_ Push Button	1.001 DP_On/Off	CWT

Switching pushbutton telegrams are sent via the group address linked to this object

30	BP Enable	Enable	1.003 DP Enable	CRW
		Push_Button		

Disable telegrams are received via the group address linked to this object. They are used to lock (disable) or unlock (enable) the pushbutton

Parameters	Settings
Short push reaction	None
	On
	Off
	Toggle

Here an adjustment is made to define which switching value is written to the storage cell of the communication object and sent after a short press on the pushbutton attached to the input.

"None": A short press on the pushbutton does not change the object value and also does not lead to a telegram being sent.

"On": After a short press on the pushbutton, the switching value "ON" (binary value, "1") is transferred to the communication object and sent.

"Off": After a short press on the pushbutton, the switching value "OFF" (binary value,"0") is transferred to the communication object and sent.

"Toggle": After a short press on the pushbutton, the switching value stored in the communication object is inverted and the new value is sent.

Long push reaction	None
	On
	Off
	Toggle

Here an adjustment is made to define which switching value is written to the storage cell of the communication object and sent after a long press on the pushbutton attached to the input.

"None": A long press on the pushbutton does not change the object value and also does not lead to a telegram being sent.

"On": After a long press on the pushbutton, the switching value "ON" (binary value, "1") is transferred to the communication object and sent.

"Off": After a long press on the pushbutton, the switching value "OFF" (binary value,"0") is transferred to the communication object and sent.

"Toggle": After a long press on the pushbutton, the switching value stored in the communication object is inverted and the new value is sent

Long push time	0.5 s
	1 s
	2 s
	3 s
	4 s
	5 s
	10 s

 $\underline{\hbox{This parameter determines the minimum period for detecting a long press on the pushbutton}}$

Technical data sheet: MM00868-b-EN Updated: 09/11/2022 Created: 05/10/2015

CONTENTS 43/47

■13.10 Pushbutton (continued)

13.10.1 Pushbutton function (continued)

13.10.1.3 Function: Dimming



No.	Object name	Function	Size	Flags
25	BP_ Switching	Switching_ Push Button	1.001 DP_On/Off	CWT

Switching pushbutton telegrams are sent via the group address linked to this object

27	BP_ Dimming	Dimming Push Button	3.007 DP_dimming control	СТ
Level telegrams are sent via the group address linked to this object				
30	BP_ Enable	Enable_ Push_Button	1.003 DP_Enable	CRW

Disable telegrams are received via the group address linked to this object. They are used to lock (disable) or unlock (enable) the pushbutton

Parameters	Settings
Short push reaction	None
	On
	Off
	Toggle

Here an adjustment is made to define which switching value is written to the storage cell of the communication object and sent after a short press on the pushbutton attached to the input.

"None": A short press on the pushbutton does not change the object value and also does not lead to a telegram being sent.

"On": After a short press on the pushbutton, the switching value "ON" (binary value, "1") is transferred to the communication object and sent.

"Off": After a short press on the pushbutton, the switching value "OFF" (binary value,"0") is transferred to the communication object and sent.

"Toggle": After a short press on the pushbutton, the switching value stored in the communication object is inverted and the new value is sent.

Long push reaction	None
	Cyclical dim +/-

Here an adjustment is made to define which dimming value is written to the storage cell of the communication object and sent after a long press on the pushbutton attached to the input.

"None": A long press on the pushbutton does not change the object value and also does not lead to a telegram being sent.

"Cyclical dim+/-": After a long press on the pushbutton, the dimming value stored in the communication object is inverted and the new value is sent.

Long push release	None
	Dim stop

Here an adjustment is made to define which dimming value is written to the storage cell of the communication object and sent when a long press on the pushbutton attached to the Channel is released

"None": A long press on the pushbutton does not change the object value and also does not lead to a telegram being sent.

"Dim storn": When the pushbutton is released after a long press, the dimming value "Storn" is transferred to the communication object and sent.

Long push time	0.5 s	
	1 s	
	2 s	
	3 s	
	4 s	
	5 s	
	10 s	

This parameter determines the minimum period for detecting a long press on the pushbutton

Technical data sheet: MM00868-b-EN

Created: 05/10/2015

CONTENTS 44/47

■13.10 Pushbutton (continued)

13.10.1 Pushbutton function (continued)

13.10.1.4 Function: 8-bit scene control



No.	Object name	Function	Size	Flags
29	BP_Outscene	Outscene_	1.001 DP_On/Off	CWT
		Push Button		

Switching pushbutton telegrams are sent via the group address linked to this object

30	BP_Enable	Enable_	1.003 DP_Enable	CRW
		Push_Button		

Disable telegrams are received via the group address linked to this object. They are used to lock (disable) or unlock (enable) the pushbutton

Parameters	Settings
Scene number	1-64

This parameter determines which scene (1-64) is to be recalled on a rising edge when mode 1 is active If value "0" is set, no scene will be recalled

Created: 05/10/2015

CONTENTS 45/47

14. APPLICATION'S EXAMPLES

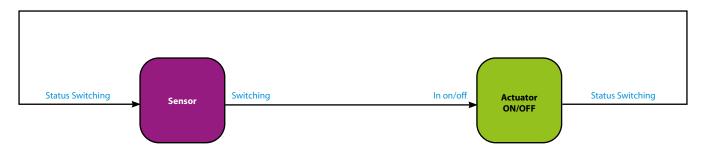
Following are described some common applications.

Here are listed the involved products and the needed objects, to be connected, in order to realize the described functions.

■14.1 Mode Auto ON/OFF - Load ON/OFF

The represented associations are valid in the following configuration cases:

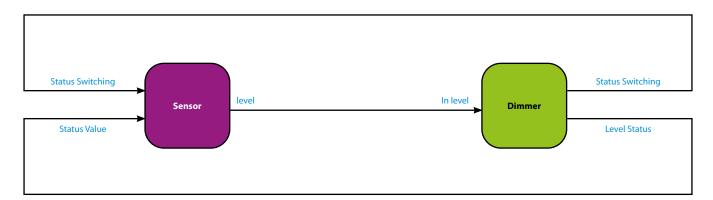
- light level only with regulation
- · detection only without regulation
- light level and detection without regulation
- · light level and detection with regulation



■14.2 Mode Auto ON/OFF - Dimming load

The represented associations are valid in the following configuration cases:

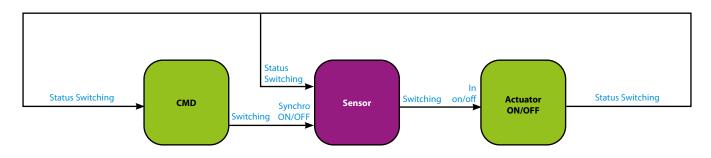
- · detection only without regulation
- light level only with regulation
- light level and detection without regulation
- light level and detection with regulation



■14.3 Mode Manual ON/Auto OFF – Load ON/OFF

The represented associations are valid in the following configuration cases:

- detection only without regulation
- light level only with regulation
- \bullet light level and detection without regulation
- light level and detection with regulation



Technical data sheet: MM00868-b-EN Updated: 09/11/2022 Created: 05/10/20

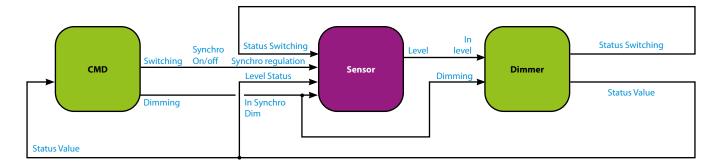


13. APPLICATION'S EXAMPLES (continued)

■14.4 Mode Manual ON/AutoOFF - Dimming load

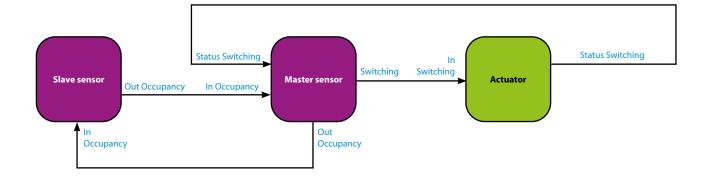
The represented associations are valid in the following configuration cases:

- detection only without regulation
- light level only with regulation
- light level and detection without regulation
- light level and detection with regulation



■14.5 Master/Slave detection

The represented associations are valid in the following configuration cases: Ex: without regulation/load ON/OFF



CONTENTS 47/47