Wall Switch Presence Detector for DALI Lighting Control KDP-DALI-04 (Broadcast version)



INSTRUCTION KOBAN MANUAL

TECHNICAL SPEC	CIFICATIONS	
Rated Voltage	220-240V~ 50/60Hz	
Output	Max. 50pcs DALI electronic ballasts or LED drivers can be connected	
Detection Angle	Up to 200°	
Detection Range	Up to 9m at the height of 1.2m - 1.5m Up to 8m at the height of 1.8m - 2.0m	
Mounting Height	1.2m - 2.0m	
Power	Approx. 0.5W	

Consumption	Off Time Adjustable from approx. 30sec to 30min	
Auto Off Time Adjustment		
Lux Adjustment	Adjustable from approx.10Lux to 2000Lux and "�" (learning range:10Lux to 2000Lux), Test	
Meter Adjustment	Adjustable from about "—" (approx. 2m) to "+" (approx. 9m)	
Delay off time under 2-level mode	5min or ∞ (unlimitted), light level is fixed at approx. 10%	
Manual Switch (3 modes)	ON 4hrs / AUTO / OFF 4hrs	
Environmental Protection	IP40	
Operating	-20°C to +50°C	

Operating -20°C to +50°C Temperature



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

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- Do not mount on conductive surface.
- Do not open the enclosure frequently.
- Turn off power when change the light sources.
- High in-rush current would be caused when bulbs of certain
- brands burned which might damage the unit permanently.

PACKAGE CONTENTS

Pattern			The second secon
Item	KDP DALI 04	Lens shield	Manual
Quantity	1	1	1

2 PRODUCT DESCRIPTION

KDP DALI 04 is a PIR wall switch presence detector integrated with DALI (Digital Addressable Lighting Interface) for achieving intelligent lighting management and energy saving benefits.

2.1 Features

- Concealed switch, appropriate to European standard power box and frame. Simple installation and easy operation. The hook on the rear of control panel provides easy insertion to connect the detector and power box to ensure quick and secure installation
- Appropriate to cover frames of different height and thickness.
- By using Learning "•• ", ambient Lux value can be read in if the provided Lux values do not match the desired values, and it provides flexible management and wide selection.
- Can be programmed by IR remote control for easy and quick settings or Manual ON / OFF / DIM Function (**IR remote** control is for optional purchase).
- Easy wiring as no polarity for connecting to DALI system.
- 2-level light function is enabled to provide comfortable and safe environment
- Manual ON / OFF / DIM function is feasible by using an external push button to control.

2.2 Dimension: 80 x 80 x 65mm (See FIG.1)



2.3 Decomposed pattern (See FIG.2)

FIG.2 shows the individual part of KDP DALI-04 Theinternal size of plastic frame is 50 x 50mm which can replace European standard plastic frame directly.

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3 INSTALLATION AND WIRING

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

3.1 Select a proper location

3.1.1 Detection coverage

It is recommended to be installed at height 1.2m - 2.0m. The detection range is up to 9m at the height 1.2m - 1.5m (See FIG.3-A), and up to 8m at the height 1.8m - 2.0m (See FIG.3-B). The min. height of moving object is above 0.5m or 1m can be detected in a fan-shaped whose radius is 8m or 9m.





FIG.3-A At the height of 1.2 - 1.5m





FIG.3-B At the height of 1.8 - 2.0m





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KOBAN () 3.1.2 Helpful fips for installation

Since the detector is in response to temperature change, please avoid the following conditions (See FIG.4-A & FIG.4-B):

- Avoid facing the detector toward the objects whose surfaces are highly reflective, such as mirror, monitor, etc.
- Avoid mounting the detector near heat sources, such as heating vents, air conditioners, vents as dryers, lights, etc.
- Avoid aiming the detector toward the objects which may be swayed in the wind, such as curtain, tall plants, miniature garden, etc.



FIG.4-A

3.1.3 Pay attention to the walking direction in the test proceeding (See FIG.5)



3.2 Functions

3.2.1 Auto mode

- Under auto mode, the load will turn on automatically when the movement is detected and the ambient light level is below the Lux setting value. When no movement is detected and the delay time has expired, the load will turn off or switch to standby mode automatically.
- According to the changeable ambient light level, detector can postpone delay time of turning on and off of load(light) to avoid unnecessarily switching on or off due to rapid ambient light change

Ambient light level changes from bright to dark: To avoid unnecessary switching ON/OFF load due to temporary ambient light value change caused via nature, e.g. a passing cloud, the detector has been designed with a 10 seconds delay for activating the light on and the detector will ignore any movement within the 10 seconds delay time, and the red LED will be continuous on as indication, but the detector has no reaction during the 10 seconds delay time. Ambient light level changes from dark to bright: If the ambient light level continuously exceeds the switch

off Lux value for 5min, there are different reactions according to the time setting value. Time setting \geq 5min, the light will be automatically switched off after 5min. Time setting < 5min, the light will be automatically switched off when the set time reached if no movement is detected during the 5min. But if there is movement detected within the 5min, the time will be reset upon detection and until 5min later, the light is switched off.

3.2.2 Standby mode function

3.2.2.1 5min standby function(☆⁵∰)

The load will automatically dim to 10% standby illumination when the delay off time has expired and the time knob is pre-set to leftward (☆☆). During the following 5min, load will change to turn on with the setting illumination (100% or the dimmed illumination) once a movement is detected and then dim to 10% illumination when the delay off time has expired and there is no movement detected. Otherwise, load will turn off 5min later.

XOBAN () 3.2.2.2 2-Level ction(☆°°¢

Set "Time" knob to "☆"♥"under auto mode, detector will enter into 2-level mode when the delay off time is expired, and load will change to turn on with 10% illumination. During which, if the movement is detected, load will turn on with the setting illumination (100% or the dimmed illumination) and then turn to the 10% illumination if no movement detected and the delay off time expired. It will be cycled until the ambient light level is higher than the switch off Lux value and lasts for 5min, then turns off and detector enters into standby mode. During which, if the ambient light level is below the pre-set Lux value again, detector will enter into 2-level mode automatically.

3.2.2.3 Remark: Standby illumination system defaults to 10%, other standby illumination can be set via RC DALI (optional purchase).

3.2.3 Auto dimming (constant light level control)

According to the changeable ambient light level, the load can brighten or darken automatically to match the Lux setting value (Lux setting value by IR or knob is measured the mixed light level of artificial light and the ambient light).

3.2.4 Manually ON / OFF switching function

Terminal R and push button (N.O. type) can be series connected to manually switch on / off load.

(case 1: on \rightarrow off; case 2: off \rightarrow on). While pressing push button $(\leq | sec)$:

Case 1: Manual off switching (Lux settings is invalid): Under the light on status, the light can be manually switched off by short pressing (\leq 1 sec) the push button. During this operation mode, once the detector is triggered by movement, the light keeps be off within the set switch off delay time. Until there is no movement detected and the pre-set switch off delay time has reached, the detector resumes to work according to the previous operation mode set by knobs or IR. To press the push button (≤1sec) during the light manual off period will activate the manual light on function (working as Case 2). Case 2: Manual on switching (Lux settings is invalid): Under the light off status, the light can be manually switched on by short pressing (≤1 sec) the push button. During this operation mode, once the detector is triggered by movement, the light keeps be on within the pre-set switch off delay time. Until there is no movement detected and the pre-set switch off delay time has elapsed, the detector resumes to work according to the previous operation mode set by knobs or IR. To press the push button(≤1sec) during the light manual on period will activate the manual light off function (working as Case 1).

3.2.5 Master / master function

Up to 10pcs detectors can be respectively connected in parallel to the S terminal of the detector for expanding detection range to meet large space application. Please see FIG.6-B for wire connection.

In this case, when one of the detectors is triggered by the movement, the triggering (ON) signal will spread out via S terminal to other detectors and once the shortest pre-set time of detectors has reached, the time reaching (OFF) signal will be spread out to other detectors too, therefore, all detectors can react synchronously, but every detector still can have individual settings in order to match different using environments.

3.2.6 Manual dimming via external push button

Detector can dim the light level of lighting manually via operating the push button connected to "R" terminal. Press (≥ 2 sec) the push button, the light level of the load will change, then release the push button while the light level of the load matches the desired value.

Remark: It will lead to opposite dimming direction if next dimming is carried out. The dimming way is unidirectional and non-recyclable.

XOBAN() 3.2.7 Dimming via IR-11DALL remote control

- RC DALI is locked: Press "(m)" or "(m)" button to start dimming, then again pressing "(m)" or "(m)" button to stop dimming while the light level matches user's desire, but the value will not be saved in detector, and it will be dimmed automatically according to last Lux setting value while the light is switched on next time.
- RC DALI is unlocked: Press "()" or "()" button to start dimming, then again pressing " (\widehat{DM}) " or " (\widehat{DM}) " button to stop dimming while the light level matches user's desire and thevalue will be saved in detector as pre-set value, and it will be dimmed to this light level automatically while the light is switched on next time.

3.2.8 Semi-auto mode (Operation with RC DALI only)

- Detector enters into semi-auto mode by pressing "(AM)" button on RC DALI.
- Under semi-auto mode, load can only be manually switched on by operating external push button.
- When the load is switched on, it will keep be on if the movements are detected constantly. Load will turn off if movement is no longer detected and the delay time has expired.
- Load can also be manually switched off by operating external push button.

3.3 Wiring diagrams

• Cable specification: 0.8mm² - 0.25mm² (18 - 24AWG). 2.5mm²max. (12AWG).

NOTE

DO NOT connect dimmer or electronic switch to load in series.

3.3.1 Normal operation (See FIG.6-A)



FIG.6-A

3.3.2 Master / master operation: Up to 10 detectors can be connected in parallel on the master via "S" terminal (See FIG.6-B). The maximum cable length between the first master and the last master device must not exceed 100m, and each two detectors should be at least 1m.





XOBAN() 3.4 Installation procedure

KDP DALI 04 can be fixed on the wall either by European standard junction box or by Koban accessory (0767961 reference), please refer to step 3.4.1 &3.4.2 respectively. • The existing switch with 2-gang or more can be replaced by KDP-DALI-04 (See FIG.7).



FIG.7 (2-gang switch)

3.4.1 Flush mount with European standard junction box

- 3.4.1.1 Disassemble the detector head and the plastic frame from the power box.
- 3.4.1.2 Unscrew the terminal and refer to the wiring diagrams (See FIG.6-A to FIG.6-B) to insert the power cables into the corresponding terminal pin jack. Please be noted to strip off 6-8mm of cable sheathing by tool (See FIG.8).



- 3.4.1.3 Screw the terminal and make sure the wires are securely
- 3.4.1.4 Put the wired power box into the European junction box (See FIG.10-A).
- 3.4.1.5 Put the detector head and the plastic frame together then insert the combination of detector head and plastic frame into the power box by means of hook aiming at the notch. Please ensure the pin array and female socket are well fixed (See FIG.2).
- 3.4.1.6 Supply power and refer to point 4 carrying out function test to check if KDP-DALI-04 works normally.
- 3.4.2 Surface mount with junction box (Take Surface accessory ref: 0767961 for example, it is for optional purchase)

3.4.2.1 surface accessory's 7 knock-outs are designed for various applications (See FIG.9). Break the knock-out youintend the wires going through, then insert the wires into the corresponding hole.



3.4.2.2 Fix Surface accessory on the wall with two Φ 4 x 25.4mm wood screws (See FIG.11-A). Refer to FIG.9 for position ofscrew

3.4.2.3 Refer to step 3.5.1.2 to 3.5.1.6 to finish the installation (See FIG.11-B & FIG.11-C & FIG.11-D).

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Do use Φ 3 x 12mm tapping screw to fix the DALI-04 with KDP -Surface Accessory (ref: 0767961).

Installation with European standard junction box



FIG.10-A









FIG.10-C



3.5 Dismantle the plastic frame

To dismantle a fixed KDP-DALI-04, please put the head of screwdriver at the nick of frame, then prize up the frame. To remove a flush mounted or surface mounted on junction box of KDP-DALI-04, please refer to FIG.10-B & FIG.11-C respectively.

4 OPERATION

4.1 Pull out the cover of slide switch

- 4.1.1 Use a screwdriver at the position shown in FIG.12-A, pull out the cover of slide switch slightly (See FIG.12-B).
- 4.1.2 Turn it upwards to adjust the knob, then turn it downwards and fasten it at the original place after the setting is completed (See FIG.12-C).



4.1.3 Slide switch function (See FIG.13)

- AUTO: Set slide switch in the middle, detector is in AUTO mode.
- ON : Slip the slide switch leftward to ON position, ON mode is activated, load will continue ON for 4hrs, LED flashes on 1sec and off 5sec, then the detector returns to AUTO mode automatically after 4hrs. Even slide switch is set to ON detector enters into AUTO mode once the power is re-supplied
- : Slip the slide switch rightward to OFF position, OFF mode is activated, load will constant OFF for 4hrs, LED flashes on 1sec and off 5sec, then the detector returns to AUTO mode automatically after 4hrs. Even slide switch is set to OFF, detector enters into OFF mode once the power is re-supplied aaair



4.2 Time, Meter & Lux knob setting

- Make sure the slide switch is on the position of AUTO while adjusting the knob.
- As there are only scales printed at the right and left knob, please adjust the knob referring to corresponding printing marks (Lux and Time).











Installation with Surface Accessory

FIG.11-B



+

FIG.11-D

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Knob	Function	Knob setting
	Set delay off time for load (lighting)	Range: Adjustable from approx. 30sec to 30min which is for setting the delay off time after detector is triggered.
		2-level function: 5min While setting the values at the left part of knob, detector will turn on with 100% illumination within the preset time period. Once the preset time has reached, it stays on with approx.10% illumination for 5min.
		2-level function: ∞ While setting the values at the right part of knob, detector will turn on with 100% illumination within the preset time period. Once the preset time has reached, it stays on with approx. 10% illumination until the ambient light level exceeds pre-set Lux value.
Lux 2000 300 100	Set the ambient light value for switching on load (lighting)	Range : Adjustable from approx.10 to 2000Lux. Test: Test mode (Load and red LED will be 2sec on, 2sec off) ◆ (learn): The actual ambient light level (10 - 2000Lux) can be read in.
Meter	Set the Detection range	Range: Adjustable from approx. "—" (R2m) to "+" (R9m)

4.3 Lux learning function with knob Learning procedure:

- 4.3.1 Adjust the knob to " 👁 " when the ambient light level matches with the desired value (See FIG.14-A).
- 4.3.2 When the knob is set to " 👁 " originally, it should be adjusted to other position more than 1 sec, then goes back to " 👁 " (See FIG.14-B).
- 4.3.3 Then the load is off. LED starts to flash slowly indicating entering into learning mode. Learning will be completed within 10sec. Afterwards, the LED and load will keep on 5sec or LED flash quickly for 10sec and load is off to confirm successful learning (See FIG.14-C).
- 4.3.4 After learning procedure, the detector returns to AUTO mode with LED and load being off.



NOTE

Learning procedure out of the range 10-2000Lux will be regarded as failure with LED flashing quickly for 10sec and detector works according to the Lux setting.

4.4 Walk test

LED will be turned on for 30sec at first to switch the power on of the detector or power is re-supplied again after the power is shut off, then turn off. During the period of warming up, the load is uncontrolled by Lux. Once any movement is detected after warm up, it will then enter into normal mode. If no movement is detected within 15sec, the load will then turn off automatically and won't be controlled by pre-set timer but enter into standby mode immediately.

4.4.1 LED function

- 4.4.1.1 The LED of KDP-DALI-04 is equipped inside of the lens (See FIG.15).
- 4.4.1.2 Only in the walk test, LED will turn on for 2sec in AUTO mode once the detector is triggered. It is uncontrolled by Lux and can be regarded as indicator.
- 4.4.1.3 LED remains OFF either in AUTO mode or OFF mode.

4.4.2 Test procedure

The purpose of walk test is to select a proper installation place to get the best detection range. Set the slide switch at the position of AUTO, turn Meter knob to "+", Time knob to "Test", then conduct a walk test referring to step 4.4.2.1 to 4.4.2.7 and Lux is disable (See FIG.16).

Walk Test



- 4.4.2.1 Install the detector correctly, refer to FIG.6-A FIG6-B to make sure wiring is connected correctly.
- 4.4.2.2 Switch on power.
- 4.4.2.3 Walk from outside across to the detection pattern, once the detector is triggered, LED and load will all turn on for 2sec.
- 4.4.2.4 Adjust Meter knob to targeted coverage .
- 4.4.2.5 Refer to point "4.5 Usage of lens shield", detection range and angle can be changed by adjusting lens shield.
- 4.4.2.6 Repeat the step 4.4.2.3 and 4.4.2.4 until it meets user's demands
- 4.4.2.7 Pay attention to the walking direction while proceeding the test (See FIG.5).

4.5 Usage of lens shield

4.5.1 Lens shield consists of three layers (See FIG.17), each layer is divided into four small units, and the unit can mask an angle of approx. 50°. When mounting the detector at the height of 1.2m - 1.5m, the detection ranae is:

> Layer A: mask the zone with a circle about from 0m to 9m. Layer B: mask the zone with a circle about from 0m to 3m. Layer C: mask the zone with a circle about from 0m to 1m. Refer to FIG.18 for detection angle of KDP-DALI-04. Separate lens shield can be eliminated as each user's desired detection area (See FIG.19 & FIG.20).



















Detection patter

Unit : Meter



4.5.2 To affix the shield

Firstly eliminate the corresponding part of shield and insert the two block points into the grooves beside of the lens, then insert the borderline which has a small slot into the grooves upside of the lens, make sure shield is affixed well (See FIG.21).



4.5.3 To detach the shield

Prod the shield outwards slightly, a small slot shows on the top of the lens (See FIG.22-A), prize up the layer at the slot with a screwdriver to peel the shield off (See FIG.22-B).



NOTE

- Do not attempt to open or repair the unit without gualified electrician while it is malfunctioned
- The following conditions may cause lower sensitivity: In very foggy days, the sensitivity may be less due to
- moisture collecting on the lens. In very hot days, the sensitivity may be less since high ambient temperature is close to body temperature.
- In very cold days when heavy clothing is dressed, especially the facial area is covered, very little heat will be emitted from the body causing the unit to be less sensitivity.
- Cleaning: Wipe with dry cloth only. Soap or rough cloth may damage the detector lens.

KOBAN **D** TROUBLE SHOOTING

When KDP-DALI-04 fails to work normally, please check assumptive problems and suggested solutions in following table that will be hopefully to solve your problem.

Problem	Possible cause	Suggested solution
Load does not turn	 No power is supplied. 	1. Switch on the power.
on	2. Incorrect wiring.	2. Connect the load referring to the wiring diagrams (See FIG.6-A & FIG.6-B).
	 Incorrect Lux knob setting. Malfunctioned load. 	 Set Lux knob to "2000" and check if the load will be on. Replace with a new one.
Load does not turn off	 Incorrect time knob setting. 	 Set the time knob to a shorter time and check if the load will be off.
	 Detector is nuisance triggered. Incorrect wiring. 	 Keep be away from the detector while doing the walk test. Connect the load referring
		to the wiring diagrams (See FIG.6).
LED does not turn on	 Time knob is not set to "Test". Exceed the effective detection coverage. 	 Set the time knob to "Test" to check if LED will be on. Walk within the effective detection coverage (r=9m).
Dimmer function is invalid.	 Incorrect wiring. Malfunctioned DALI electronic ballast or LED driver. 	 Connect the load referring to the wiring diagrams (See FIG.6-A & FIG.6-B). Replace with a new DALI electronic ballast or LED driver.
Nuisance triggering	There are heat sources, highly reflective objects or any objects which may be swayed in the wind within the detection coverage.	Avoid aiming the detector toward any heat sources, such as air conditioners, electric fans, heaters or any highly reflective surfaces. Make sure there are no swaying objects within the detection coverage.

6 OPTIONAL PURCHASE UNIT

6.1 For easy and safe setting operations, it is highly recommended to purchase our high quality IR remote controller RC DALI together with KDP-DALI-04 (See FIG.23).



6.2 RC DALI remote control function:

(ON)



 Load will be turned_off after 8hrs and return to auto mode. Or press "(○N)" button again to exit this "8hrs on mode" during this period, detector will return to auto mode.

Or switching off power supply of presence detector for 5sec and re-supply it again to lead detector to auto mode.

- Load can be led to off mode by pressing "(OFF)" button under on mode.
- Pressing "(ON)" is inactive under lock mode. Under unlocked status ,by pressing "(DA1)" or "(DA2)" button firstly to select desired channel for value setting, then press "(ON)" button to switch load on for 8hrs. If press "(ON)" button directly without selecting channel, both DA1 and DA2 will keep on 8hrs simultaneously.

To set load off for 8hrs

- By pressing "(FF)" button, the load connected to detector will be turned off for 8hrs.
- Detector will return to auto mode after 8hrs. Or press "(OFF)" button again to exit this "8hrs off mode" during this period, detector will return to auto mode. Or switching off power supply of presence detector for 5sec and re-supply it again to lead detector to auto mode.
- Load can be led to on mode by pressing "(on)" button under off mode.
- Pressing "(OFF)" is inactive under lock mode.
- Under unlocked status by pressing "(DA1)" or "(DA2)" button firstly to select desired channel for value setting, then press "(OFF)" button to switch load off for 8hrs. If press "(OFF)" button directly without selecting channel, both DA1 and DA2 will turn off for 8hrs simultaneously.

To lock/unlock RC DALI buttons

- Detector load on (except for 8hrs on mode): By pressing "(") "button, if load switches off and detector's LED flashes quickly for 5sec, meaning the detector is unlocked and enters into IR setting mode. If load keeps on and detector's LED keeps on 5 sec, detector is locked and no adjustments of IR are workable
- Detector load off (except for 8hrs off mode). By pressing "(📆)" button, if load switches on / off sequentially and detector's LED flashes quickly for 5sec, meaning the detector is unlocked and enters into IR setting mode. If load keeps off and detector's LED keeps on for 5sec, then the detector is locked.
- Detector will be locked automatically when power resupply after power went off.
- When all IR settings were finished without pressing "(")" button, the detector will be locked
- automatically after 2min if no buttons were pressed. Under locked status, no buttons are workable
- (except "(DA1)" & "(DA2)" & "(DM)" & "(DM)" buttons).











KOBAN Button

 \bigcirc

Function

To dim the brightness of light

- RC DALI is locked: Press "()" or "()" button to start dimming, then pressing "()" or "()" button to stop dimming while the ambient light level matches user's desire, but the value will not be saved in detector, and it will be dimmed automatically according to last Lux setting value while the lighting is switched on next time.
- RC DALI is unlocked: Press "()"_or "()"_button to start dimming, then pressing "()" or "()" button to stop dimming while the ambient light level matches user's desire and the value will be saved in detector for pre-set Lux value, and it will be dimmed to this light level automatically while the lighting is switched on next time.
- Under unlocked status, by pressing "(DA1)" or "(DA2)" button firstly to select desired channel for value setting, then press " (\widehat{DM}) " or " (\widehat{DM}) " to dim the light. If press " (\widehat{DM}) " or " (\widehat{DM}) " button directly without selecting one channel, both DA1 and DA2 can dim the light simultaneously.
- Remark: "()" is to increase the brightness of load. " (\bigcirc) " is to decrease the brightness of load.

Ex-changing auto mode and semi auto mode

- Under unlocked status, by pressing "(DA1)" or "(DA2)" button firstly to select desired channel for value setting, then press "(AM)" to select auto or semi-auto mode. If press "(AM)" button directly without selecting one channel, both DA1 and DA2 can select auto or semi-auto mode simultaneously.
- The first time pressing the "(AM)" button, LED will flash quickly for 2 sec. to indicate detector entering into Auto mode. Press "(AM)" button one more time, LED will keep on 2 sec. to indicate detector entering into Semi-auto mode.

To reset settings on presence detector

By pressing "(REF)" button aiming to the detector, all settings on presence detector will go back to potentiometers' settings.

To adjust Lux value

- Under unlock mode, press "(DA1)" or "(DA2)" firstly to select desired channel for value setting. Then, press corresponding button to selected light level threshold is set to presence detector for switching on the connected load.
- Users can set the desired Lux value through pressing (+) button.

To read-in the actual ambient light level

• Actual ambient light level can be read-in as threshold for switching the connected load, if the provided Lux values do not match user's requirement. The steps are as below: Press "()" button till detector's red LED flashing to enter into learning mode, learning time is 10sec. Then the actual ambient light level is read-in confirmed by both load and LED turn on for 5sec to indicate RC DALI learning successfully and then turn off. Afterwards, it returns to Auto mode.

Note: If the ambient light level is out of the range of 10 - 2000Lux, detector will learn for 10sec, then LED flashes quickly for 5sec, and the alternative of 10Lux or 2000Lux value will be stored depending on under 10Lux or above 2000Lux value.

• "()" is only valid for DA1 setting.

BAN	
tton	Function
A 1)	 DA1 or DA2 setting selection By pressing "^{(DA1})" under unlock mode to select DA1 for corresponding value setting. By pressing "^{(DA2})" under unlock mode to select DA2 for corresponding value setting. The settings for "^{(DA2})" is invalid while detector has only one channel.

Set delay off time of DA1 / DA2

Under unlock mode, press "(DA1)" or "(DA2)" firstly to select desired channel for value setting. Then, press corresponding button to set the exactly delay off time of DA1 or DA2. Users can set the desired delay off time of DA1 or DA2 through pressing "(+)" button. • Under unlocked status, by pressing "(+)" button to

- sum the same kind value, one time only during each setting period. Take setting Lux value for instant, press " $\binom{10}{Lux}$ " + "(+)"
- + " $\binom{50}{Lux}$ " the final value is 60Lux.
- "(+)" is only valid for setting value of Lux / Time / STBY / STBY%.
- "(+)" is invalid without pressing any values of Lux / Time / STBY / STBY% first.

Test mode

KOE

Βι

Min

(50 Min

Min

Min

(60 Min

• By pressing "(TEST) " button to enter into Test mode, it is confirmed by detector's LED flashing for 2sec. Walking through the detection coverage, both load and detector's LED turn on 2sec once detector is triggered (Reaction is regardless of Lux value).

Set load on time in standby mode

- Under unlock mode, press "(DA1)" or "(DA2)" firstly to select desired channel for value setting. Then, press corresponding button to set the desired load on time of DA1 or DA2.
- Users can set the desired load on time of DA1 or DA2 through pressing "(+)" button.

Switch off load in standby mode

- Under unlock status, by pressing "(STBY) firstly, detector enters into standby on mode with detector's LED flashing quickly for 2sec and load on. Then, press it again, detector enters into standby off mode with detector's LED keeps on for 2sec.
- Under standby on mode, load will keep be on with standby illumination (according to STBY% setting) when detector's delay time has expired. Under standby off mode, load will switch off when detector's delay time has expired.
- Under unlocked status, by pressing "(DA1)" or "(DA2)" button firstly to select desired channel for value setting, then press "("")" to select standby on or off mode. If press "("")" button directly without selecting channel, both DA1 and DA2 are set simultaneously.

Set illumination of load in standby mode



• Under unlock mode, press "(DA1)" or "(DA2)" firstly to select desired channel for value setting. Then, press corresponding button to set the desired load on illumination for standby mode of DA1 or DA2. • Users can set the desired load on illumination for standby mode of DA1 or DA2 through pressing "(+)" button.

6.3 Trouble shooting of IR-11 DALI

When remote controller RC DALI works abnormally, please check assumptive problems and suggested solutions in following chart that hopefully solve your problem.

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



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