

LightON[®]

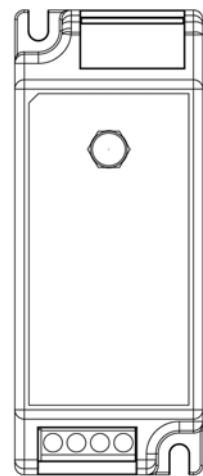
AL-DX310-NZ

ZigBee Dimming Converter

<Main Function>

ZigBee Communication

Dimming Control (0-10V)



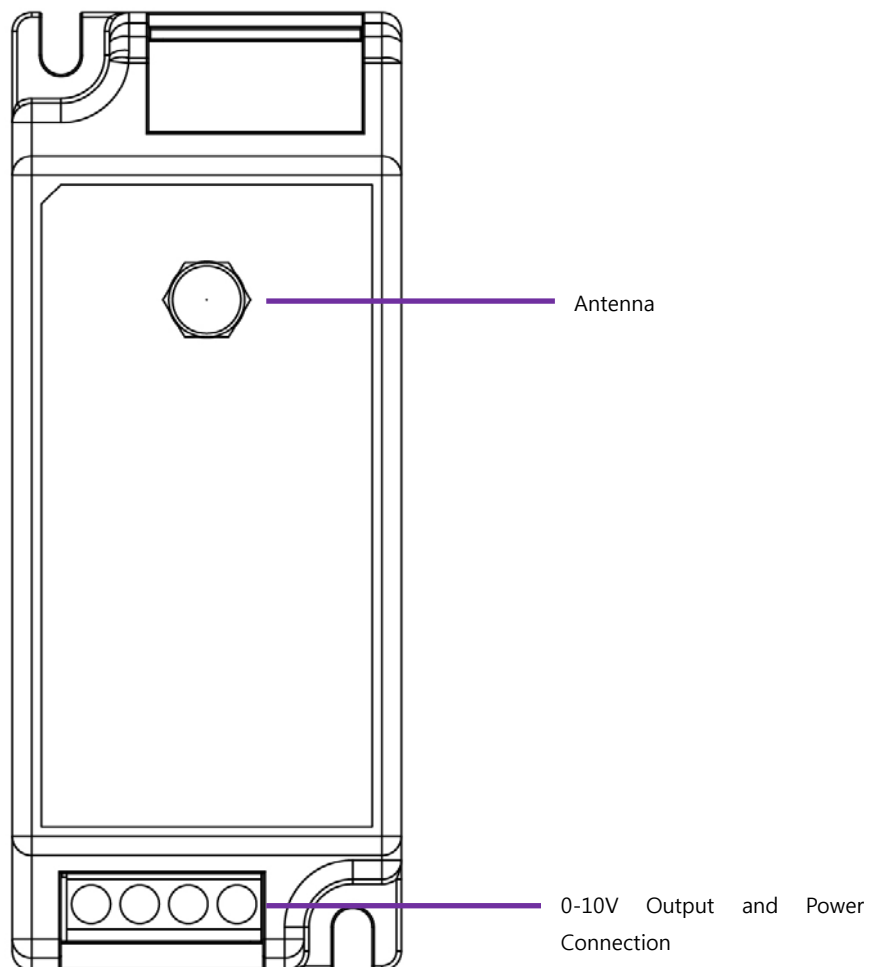
<AL-DX310-NZ>

Features

AL-DX310-NZ	<ul style="list-style-type: none">– Dimming control of a lighting by ZigBee communication.
The way of communication	<ul style="list-style-type: none">* ZigBee<ul style="list-style-type: none">– 2.4GHz / 2Mbps– Point to Point Repeating Function* 0–10V Dimming Control<ul style="list-style-type: none">– Dimming control of Lightings or converter(SMPS) by 0–10V output voltage level change.
Operating Temperature	–10 °C ~ 50 °C
Operating Voltage	DC 12V

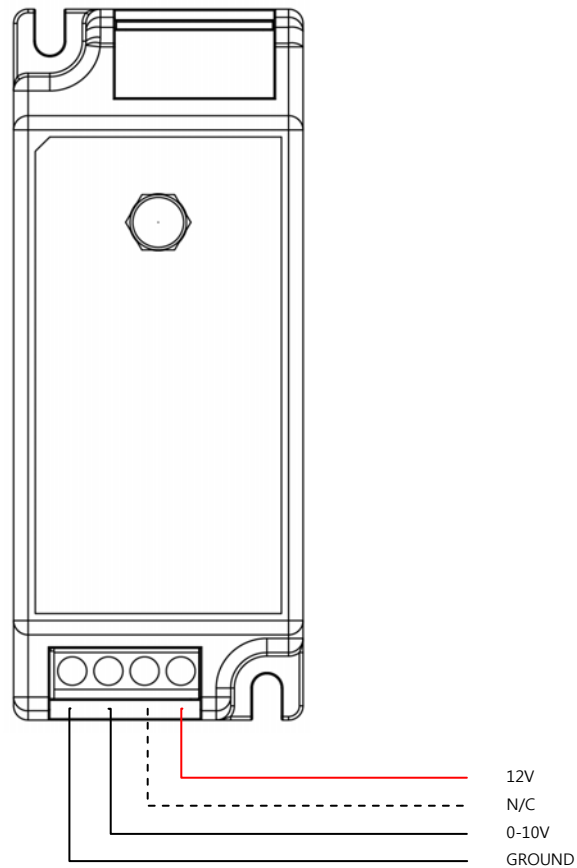
Description


LightON® AL-DX310-NZ is the converter which can control the dimming of lightings by 0-10V level control.
The 0-10V level can be changed by ZigBee telecommunication.



AL-DX310-NZ	Function
Antenna	Radio wave Transmit and Receive (2.4GHz/Helical Antenna)
0-10V output and Power Connection	External DC 12V Input 0-10V Voltage Output

Description of Connection Terminal



1	Input Power Connection	Connect the DC Power line to the Ground and DC12V Connection Point.
2	0-10V Signal Line	Connect 0-10V dimming signal line to the 0-10V connection Point.  - ZigBee Dimming Converter is Self-power device. So, it absolutely needs external power.

Cautions

A Warning on Self-Repairs

This product should only be handled by an approved electrician with training about our products. For your safety, please do not try to disassemble and repair this product yourself.

Prohibition of Putting Foreign Materials

This product should only be handled by an approved electrician with training about our products. For your safety, please do not try to disassemble and repair this product yourself.

Be careful not to enter the foreign materials. If any foreign materials is input, cut off the power and remove it immediately.

Shock Damage

When installing this product please make sure that the main power is turned off. Please do not knock against this product with sharp or heavy objects. This may cause an electric shock or fire hazard.

Technical Support

Product of ABI SYSTEMS Co., Ltd.

- ZigBee Dimming Converter
- Model Name: LightON[®] AL-DX310-NZ
- Input Power: DC 12V / 1A

Head Office

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※ Information in this document, including URL, and other internet Web site references, is subject to change without notice.

FCC Information to User

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution

Modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Compliance Information : This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

IMPORTANT NOTE:

FCC RF Radiation Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

The antennas used for this transmitter must be installed to provide a separation distance of at least 25 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

CAUTION

To reduce the risk of electric shock, do not remove the top cover (or the rear section).
No user serviceable parts inside, refer servicing to qualified personnel.



This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure-voltage that may be sufficient to constitute a risk of shock.



This symbol, wherever it appears, alerts you to the important operating and maintenance instructions in the accompanying literature. Please read the manual.

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this equipment near water.
- 6) Do not use near any heat sources such as radiators, heat resistors, stove, or other equipment that produce heat.

CAUTION

**RISK OF EXPLOSION IF BATTERY IS REPLACED
BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING
TO THE INSTRUCTIONS**

European CE notice to users and product statements

This product is CE marked according to the provisions of the R&TTE Directive(99/5/EC). Hereby, ABIsystems Co.,Ltd. declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

For further information, please contact [http:// www.abisys.co.kr](http://www.abisys.co.kr)

CE1177

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CONTACT INFORMATION

Manufacturer Address : 308 (ACE Techno Tower 8), 11, Digital-ro 33-gil, Guro-gu, Seoul, Korea To locate in-country ABIsystems Co.,Ltd., distributors of the ZigBee Dimming Converter please refer to the ABIsystems Co.,Ltd. Website <http://www.abisys.co.kr>

These distributor(s) represent local contacts for this product.

CORPORATE HEADQUARTERS:

ABIsystems Co.,Ltd.

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Web: <http://www.abisys.co.kr>

This device complies with Industry Canada license-exempt RSS standard(s).

Operation is Subject to the following two condition: (1) this device may not cause interference ,and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

EUROPEAN UNION “DECLARATION OF CONFORMITY”

DECLARATION OF CONFORMITY

ABIsystems Co.,Ltd.

308 (ACE Techno Tower 8), 11, Digital-ro 33-gil, Guro-gu, Seoul, Korea

declare under our sole responsibility that the product(s)

ZigBee Dimming Converter – AL-DX310-NZ

to which this declaration relate(s) is in conformance with the following standards:

EN 301 489-1 V1.9.2:2011

EN 301 489-17 V2.2.1:2012

EN 60950-1:2006/A2:2013

EN 300 328 V1.8.1:2012

following the provisions of the 1999/5/EC Directives.