

# Infrared Emitter With Learning Capability User's manual



The user manual refer to the following devices:

SATION-GP2410.0101

SATION-GP2410.0304

Zhuhai Sation Technology Co., Ltd

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## Version

Version No.	Release Date	Description
V1.0	Oct. 10 <sup>th</sup> , 2018	1 <sup>st</sup> Release
V1.1	Aug .6 <sup>th</sup> , 2019	Add to GP2410.0304

## Notice

1. Please read this user manual carefully before using the product.
2. This product is used in indoor environment and installed in electrical control box.
3. Please install this product in a dry and ventilated place.
4. Before power on, please confirm the input voltage according to the manual; after power on, please confirm the normal output voltage before connecting to the control bus.
5. Please make sure the secure shell is in good condition, if the shell is damaged, please stop using to avoid accident.
6. This product is NOT a toy, please make sure it is out of children touch.
7. Only be suitable for EIB/KNX system bus.
8. Others:

The below sign indicates this product can't be dealt as ordinary family rubbish, in order to avoid the possible environment and human health harm caused by the electrical waste, this product must follow recovery processing. Please contact the local recycling department after this product is scrapped, to make sure it can go as the right waste processing procedure.



# 1 Technical Data

	GP2410.0101	GP2410.0304
Power Input	DC 10V~30V	
KNX-Bus Power	DC 21V~31V	
KNX-Bus Current	< 5mA	
Programming Button	Button Match Physical Address、Programming	
Programming Lighting	Orange LED	
IR Bandwidth	38KHz	
Channel Quantity	4	
Storage Capacity	255	
Learning Distance	5m	Facing GP2410.0304
Emission Distance	5m (Influenced by environment)	Pasted near the receiving head of infrared equipment
Mounting Way	Suction Top Mounting	unlimited
Weight of Product	70g	35g (excluding infrared emitter extension line)
Temperature of Operation	-25°C~+45°C	
Certificate	KNX	

## 2 Overview Function

### 2.1 Description Of Function

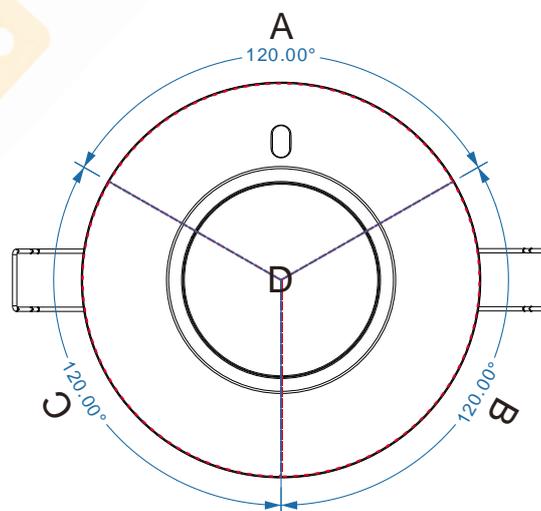
The learning infrared transponder can connect the traditional infrared equipment into KNX Intelligent System, and realize the control of infrared equipment through KNX Intelligent panel, Ethernet or other KNX equipment.

The learning infrared transponder integrates the infrared learning receiver inside without external connection of users; it can realize the learning and forwarding function without using other debugging tools by using ETS. The learning type infrared transponder can learn any type of infrared signal with carrier frequency of 38kHz. After successful learning, it has feedback information and can store up to 255 different infrared codes.

The learning infrared transponder integrates some air conditioning remote control codes, and other infrared devices such as TV, set-top box can be controlled by learning functions.

### 2.2 Description Of Channel

The learning infrared transponder GP2410.0101 contains four channels. The bottom view is shown as follows. Channel a, channel B and channel C each have two infrared emitters facing down at a 45 degree angle, and channel D infrared emitters facing down vertically. The infrared learning receiving head is built in the black infrared transmitting cover. The infrared learning distance and transmitting distance are 5m, and the infrared emission is easily affected by the installation height of GP2410.0101, the height of the infrared equipment receiver and the distance and direction between GP2410.0101 and the infrared



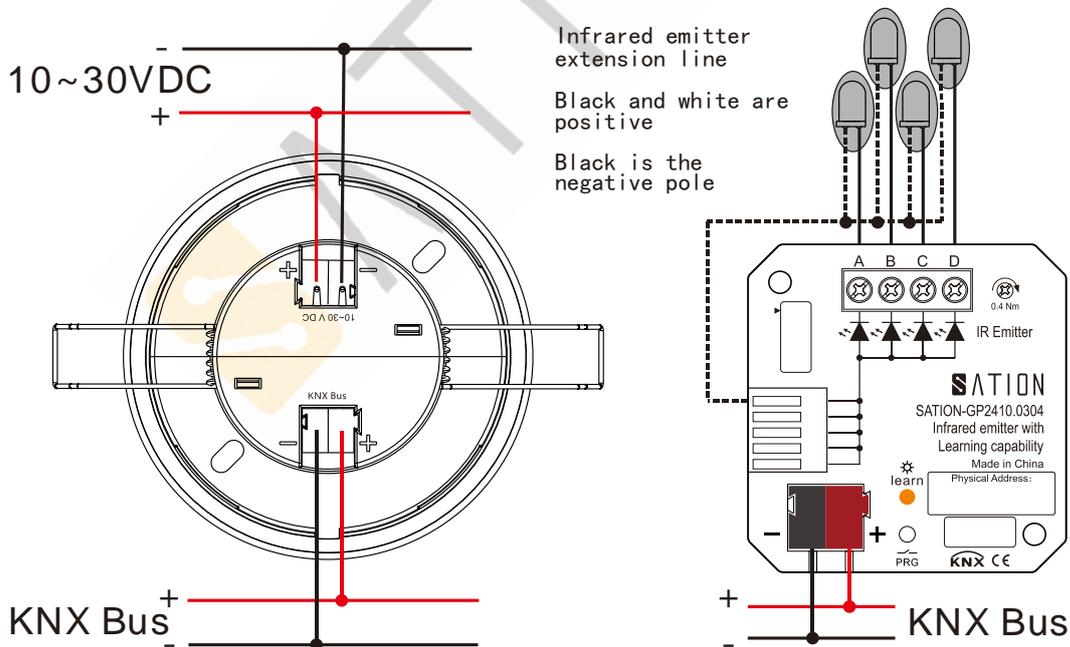
equipment receiver.

Bottom View

GP2410.0304 has four channels. The infrared learning receiver is built into the product, and it is facing the GP2410.0304 product when learning. The extension line of the infrared emitter is pasted near the infrared receiver of the infrared electrical equipment, which needs to be fixed reliably to prevent the displacement of the infrared emitter of GP2410.0304 from affecting the control of the infrared electrical equipment.



### 2.3 Electrical wiring diagram

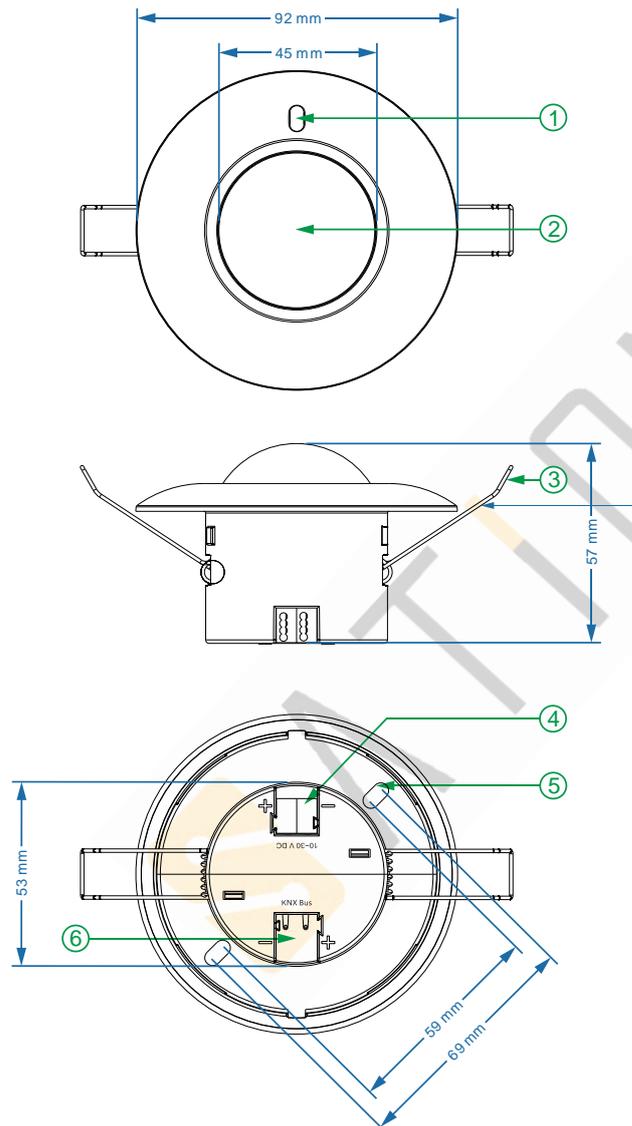


GP2410.0101 Wiring diagram

GP2410.0304 Wiring diagram

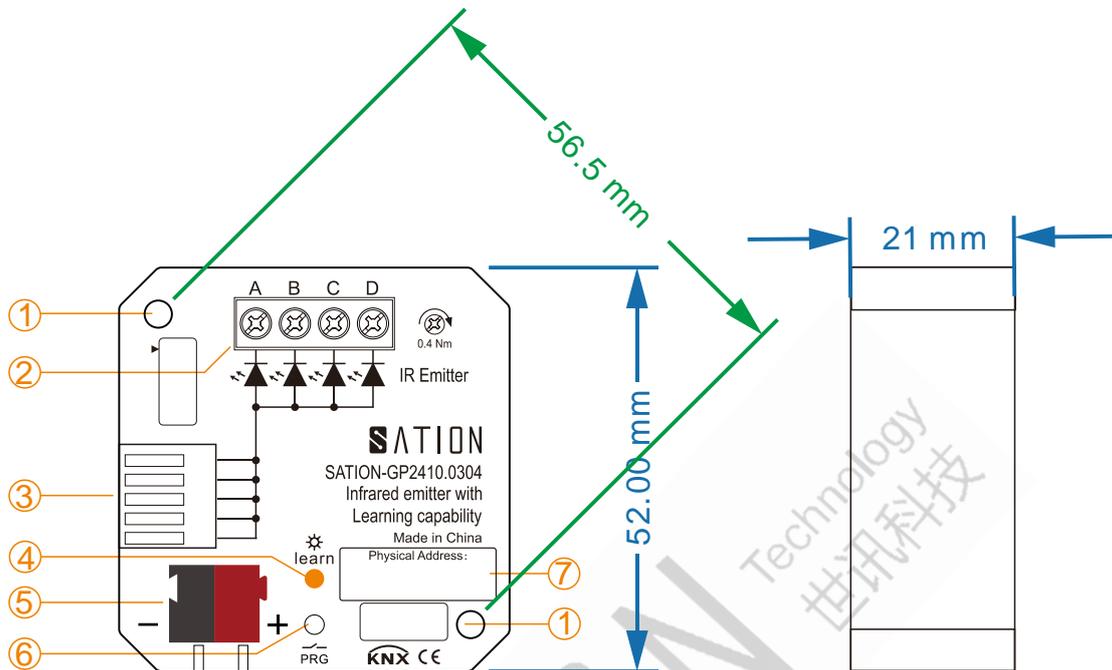
## 2.4 Size Information

### 2.4.1 GP2410.0101



1. Programming lighting window
2. Black Infrared Emitter cover, press contact programmable button
3. Spring clam for suction top installation
4. 10-30VDC power terminal
5. Cassette mounting hole position
6. KNX Bus terminal

## 2.4.2 GP2410.0304

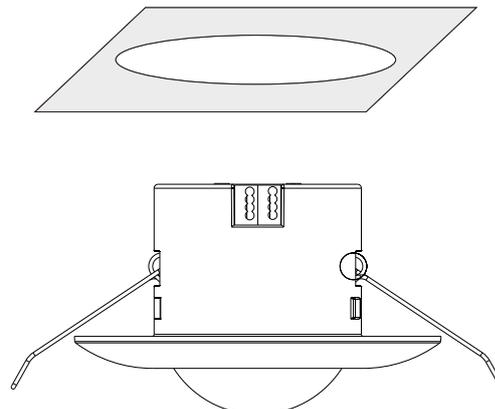


1. Screw fixing hole position
2. Terminal terminal of infrared emission extension wire negative (black)
3. Terminal terminal of infrared emission extension line (black and white phase)
4. Position of programming key indicator and infrared learning receiver
5. KNX bus terminal
6. Program button
7. Address label

## 2.5 GP2410.0101 Installation

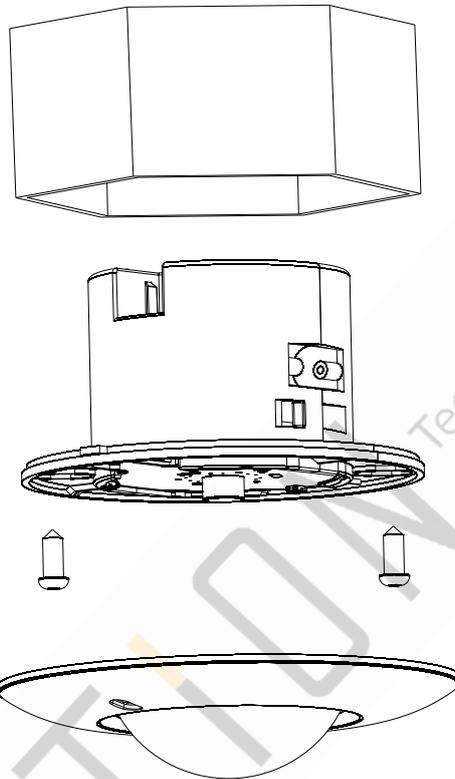
### 2.5.1 Open hole ceiling installation

Opening diameter: 60-70mm



## 2.5.2 Installation of cassette ceiling

Remove the spring clamp, the depth of octagonal cassette shall not be less than 45mm, and the installation spacing of screws shall be 59-69mm.



## 3 Contact

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