

## Parameters

### Electrical Parameters:

Buspro power supply	DC12-30V
Static power consumption	40mA/DC24V
Dynamic power consumption	90mA/DC24V
Range of temperature sensor	-20°C to 60°C
IR transmit frequency	38KHz
IR emission distance	4m
Illumination detection range	0-5000Lux
PIR sensing range in diameter	6m (install height-3m)
Ultrasonic sensor in diameter	8m

### Environmental Conditions:

Working temperature	-5°C~45°C
Working relative humidity	Up to 90%
Storage temperature	-20°C~+60°C
Storage relative humidity	Up to 93%

### Approved

CE

RoHS

### Product Information:

Dimensions	110(Diameter)*33(mm)
Weight	206.7(g)
Housing material	Lens, ABS
Installation	Ceiling mount
Protection degree	IP20

## Important Notes

- Installation Location — If use PIR function indoor, please keep it away from AC outlets and heat source.
- Environment temperature — if use PIR function, please make sure the temperature is below 36°C.
- Detect target — PIR only can detect moving objects with heat radiation like human, animal, ultrasonic can detect all moving objects.
- Buspro cable — CAT5E or HDL Buspro/KNX cable.
- Buspro connection — Series connection (hand-in-hand).
- Installation — Indoor and ceiling-mount, keep it away from AC outlet.

## Safety Precautions



- The screw down strength should not exceed 0.1Nm.
- Do not make wrong connection on Buspro interface, it will damage the Buspro interface of this module.
- Do not get AC power into Buspro wire, it will damage all devices in the system.
- Avoid contact with liquids or corrosive gases.

## Overview



**SB-CMS-12in1** 12 in 1 sensor includes temperature sensor, PIR motion sensor, LUX sensor, ultrasonic sensor, dry contacts, IR received, IR emitter, 2-channel 5A relay output and logic block. The logic block can combine all sensors for different applications. It supports HDL security mode and command.

## Functions

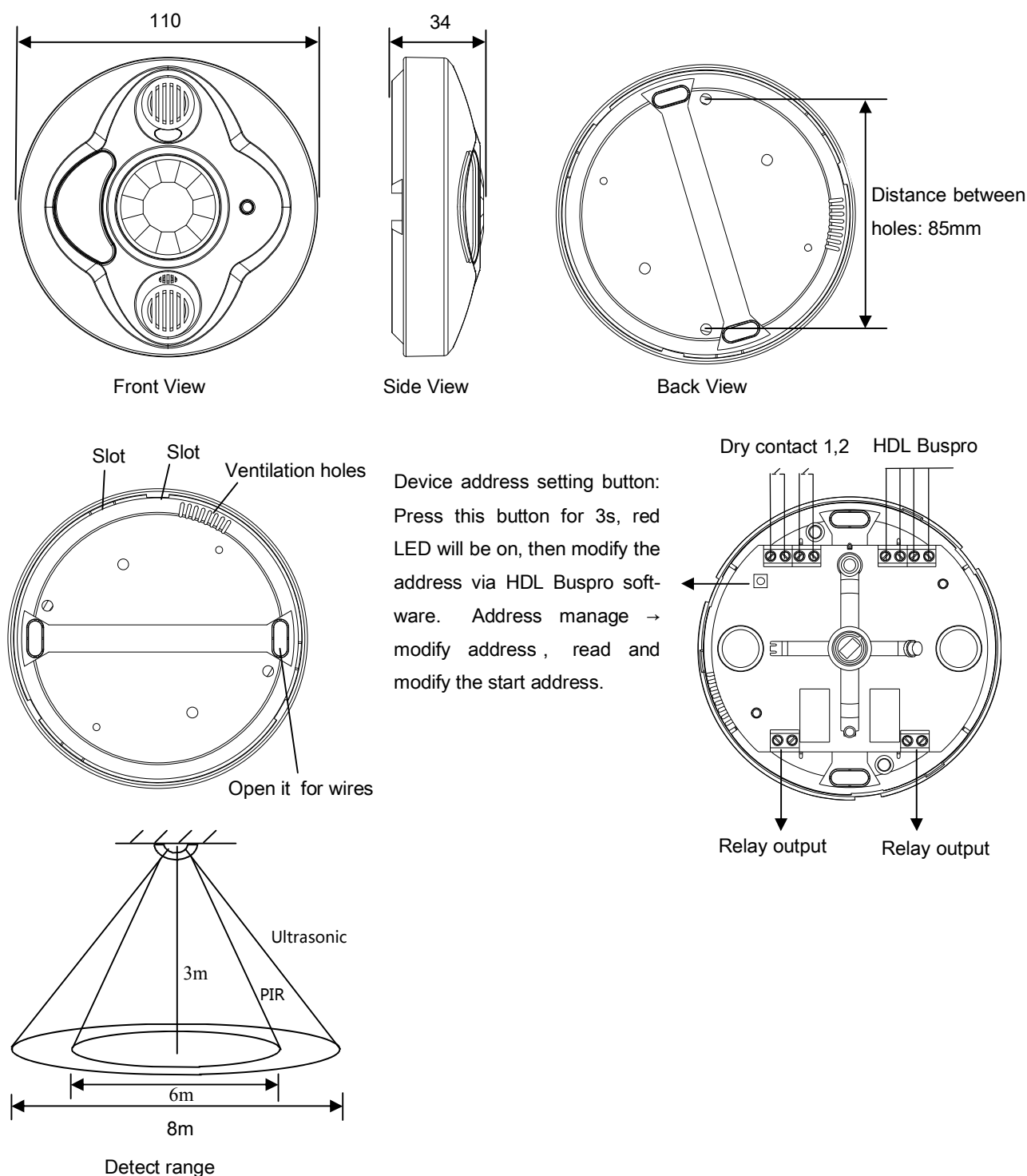
- Temperature, LUX, IR motion, ultrasonic, 2 dry contact inputs, 2 external inputs, logic, totally 9 inputs.
- 2 logic Relations: OR、AND.
- 24 logic blocks function, maximum 9 logic inputs, up to 20 control targets in each logic block.
- 2-channel 5A Relay output.
- Build PID for constant LUX control.
- Up to 40 IR receiving control target.
- Up to 240 IR sending control target.
- Maximum 24 programmable logic blocks.
- Security function, to be used with the security module.
- Supports upgrade from HDL Buspro.

## HDL Buspro Definition for cable

CAT5/CAT5E	HDL Buspro	HDL Buspro/KNX
Brown/ Orange	DC24V	Red
Brown white/ Orange white	COM	Black
Blue white/Green white	DATA-	White
Blue/ Green	DATA+	Yellow



## Dimensions and Wiring



## Packing List

■ Datasheet	×1
■ 12 In 1 Sensor ( SB-CMS-12 In1 )	×1