



Figure 1. Ceiling Mount 8 in 1 Sensor
图 1. 8合1吸顶传感器

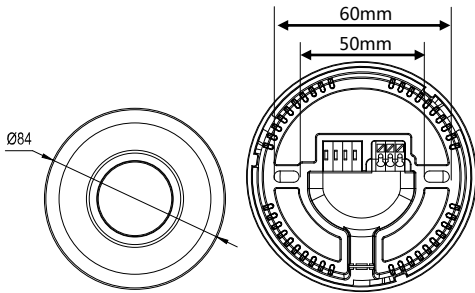


Figure 2. Dimensions-Front View
图 2. 尺寸图-正面

Figure 3. Dimensions-Back View
图 3. 尺寸图-背面

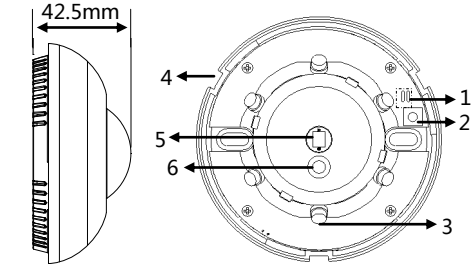


Figure 4. Dimensions-Side View
图 4. 尺寸图-侧面

Figure 5. Components - Interior View
图 5. 部件 - 内部图

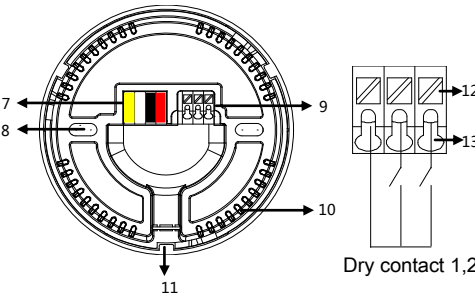


Figure 6. Components - Back View
图 6. 部件 - 背面图

Figure 7. Dry contact wiring
图 7. 干接点接线

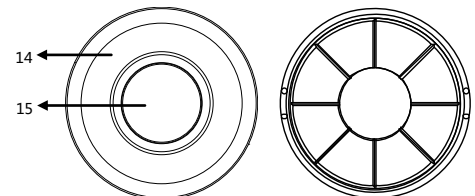


Figure 8. Components - Front View
图 8. 部件 - 正面图

Figure 9. Accessory - Angle cover
图 9. 配件 - 角度遮挡盖

Overview

Ceiling Mount 8 in 1 Sensor (See Figure 1) includes PIR motion sensor, LUX sensor, dry contact, etc., which can form different logic functions by logic block according to users' requirements. The module supports HDL security mode and commands, and can download IR code from HDL Buspro Setup Tool and emit IR codes in order to control the targets.

Functions

- Built-in PIR sensor, LUX sensor, IR emitter, dry contact and universal switch.
- Logic inputs include LUX sensor, PIR sensor, 2 dry contact inputs, 2 universal switches.
- Two logic relations: OR, AND.
- Adjustable PIR sensitivity from 1 to 10
- 12 logic blocks (2 switch numbers for each). 201-204 are assigned for universal switch, which has auto-off function with the delay time of 1-3600s.
- Logic can trigger different targets no matter it is true or false. Up to 10 targets can be triggered by each logic block.
- IR emission function of remote control code, supports 240 infrared emission targets, corresponding to the universal switch number 1-240. When uploading infrared code, multiple infrared codes can be selected to upload at the same time.
- Online update supported via HDL Buspro Setup Tool.
- Constant LUX function.

Important Notes

- Buspro - CAT5E or HDL Buspro/KNX dedicated cable.
- Buspro connection - Series connection (hand-in-hand recommended).
- Installation - Ceiling mount.
- Installation position: Indoor, away from AC outlet and heat source.
- Dry contact cable requirement: Applicable wire: 0.5~0.75mm², stripping wire length: 8.5~10mm, shield cable less than 20m recommended.

Product Information

Dimensions - See Figure 2 - 4

Components - See Figure 5, 6, 8

- LED indicator and IR indicator
Flashes in blue when the module is in normal working mode
Keeps in red when sensor detects movement
Note: Indicators can be set via HDL Buspro Setup Tool
- Button for module address setting
Press for 3s, blue indicator turns on. Go to "Address management"-"Address modification" of HDL Buspro Setup Tool to read and modify the address setting.
- IR emitter
- Slot
- PIR sensor
- LUX sensor
- HDL Buspro, from right to left: DC24V, COM, DATA-, DATA+
- Screw holes
- Dry contact 1,2
- Ventilation hole
- Wiring channel, open it for wiring
- Pushrod
- Wiring hole
- Emitter outlet
- Fresnel lens

Dry contact wiring - See Figure 7

Press the pushrod with a straight driver, then the wire hole will be opened.
Put wires in the wiring hole, and loosen the pushrod to lock the wires.

Open the cover to install the sensor, then fix it with screws.

Open the cover - See Figure 8: Rotate the cover counterclockwise to take off the cover.

Install the cover - See Figure 8: Put the cover to the correct slot and rotate the cover clockwise.

Accessory - See Figure 9: Angle cover is an accessory for blocking PIR sensing range. If users want to block a certain angle of PIR sensing range, they can remove the parts of this accessory they don't need and install it into the Fresnel lens. Users can adjust angle according to their own needs.

Detection range - See Figure 10

Installation - See Figure 11 - 14

- Step 1. Rotate and open the sensor.
- Step 2. Fix the sensor base on the wall box with screws.
- Step 3. Put the cover on the sensor.

Safety Precautions

- The installation and commissioning of the device must be carried out by HDL or the organization designated by HDL. For planning and construction of electric installations, the relevant guidelines, regulations and standards of the respective country are to be considered.
- HDL does not take responsibility for all the consequences caused by installation and wire connection that are not in accordance with this document.
- Please do not privately disassemble the device or change components, otherwise it may cause mechanical failure, electric shock, fire or body injury.

Package Contents

HDL-MSP08M.4C*1 / Buspro connector*1 / Screws*2 / Angle cover*1 / Datasheet*1

产品概述

8合1吸顶传感器(见图1)包含红外移动传感器、照度传感器、干接点等,并由内部逻辑组成不同的逻辑功能以满足客户复杂的控制需求。支持HDL安防模式及安防指令。可从HDL Buspro Setup Tool中下载红外码,发射红外码控制目标。

功能说明

- 内设红外移动传感器、照度传感器、红外发射头,干接点,通用开关。
- 6个逻辑输入条件:照度感应器,红外移动传感器,2个干接点输入,2个通用开关。
- 具有2个逻辑关系:OR、AND。
- 红外移动灵敏度可调节,灵敏度范围为1-10。
- 具有12个逻辑块,逻辑中通用开关号分配为201-240,每个逻辑2个开关号,通用开关有自动关闭功能,延迟时间1-3600秒。
- 每个逻辑块成立与否均可设置触发目标,每个逻辑最多可触发10个目标。
- 具有红外发射遥控代码功能,支持240个红外发射目标,对应通用开关号1-240。上传红外码时可同时选中多个红外码同时上传。
- 支持HDL Buspro在线升级。
- 恒照度功能。

注意事项

- 总线 - CAT5E或者HDL Buspro/KNX专用电缆。
- 总线连接 - 推荐使用手拉手的连接方式。
- 安装方式 - 吸顶式圆形暗盒安装。
- 安装位置:室内,远离空调出风口,远离热源。
- 干接点电缆要求:适用线材:0.5~0.75mm²,剥线长度:8.5~10mm,建议为屏蔽电缆,长度不超过20m。

产品信息

产品尺寸 - 见图 2 - 4

部件 - 见图 5, 6, 8

- 工作指示灯与红外感应指示灯
正常工作时蓝色闪烁
感应到动静时红色指示灯亮
注:指示灯均可通过软件设置是否指示。
- 模块地址设置键
长按该键约3秒蓝色指示灯长亮,此时在HDL Buspro系统软件中可修改地址。地址管理-修改地址,读取设备ID及修改设备ID。
- 红外发射管
- 卡槽
- 红外动静传感器
- 照度传感器
- HDL Buspro, 从右至左:DC24V, COM, DATA-, DATA+
- 螺丝固定孔
- 干接点1干接点2
- 通风孔
- 走线槽,如需从侧面走线,请将走线槽的挡板拨开。
- 推杆
- 接线孔
- 发射窗
- 菲涅尔透镜

干接点接线 - 见图 7

使用一字螺丝刀或其它工具按压推杆,此时接线孔打开。
把导线放入接线孔,松开推杆,导线即锁紧。

安装时需要打开面盖,然后螺丝固定。

打开面盖:如图8放置,逆时针旋转面盖直到旋转不动,此时可以取掉面盖。

安装面盖:如图8放置,将面盖卡扣对准卡槽,顺时针旋转面盖直到旋转不动。

配件 - 见图9:角度遮挡盖,具有遮挡红外感应的作用,如用户不需某个角度的红外动静感应,则可以用该配件进行遮挡,其余部分需去掉,然后装在菲涅尔透镜内部。具体角度用户根据自己需要进行调整。

感应范围 - 见图 10

设备的安装 - 见图 11-14

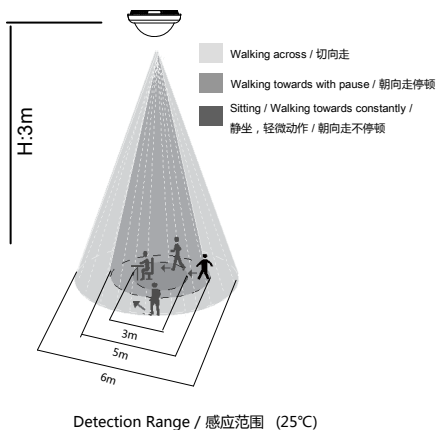
- 步骤1. 拧开传感器。
- 步骤2. 用螺丝将传感器底座固定在暗盒上。
- 步骤3. 盖上传感器的面盖。

安全警告

- 本设备的安装及调试工作必须由我司或我司指定的机构进行。其电气安装的计划 and 施工,必须遵守当地相关的安全标准和法规。
- 未按照本说明书进行安装及接线方式的,所造成的一切后果皆与我司无关。
- 请不要私自拆装或更换零部件,否则可能会导致机械故障、电击、火灾或身体伤害。
- 请将一切维修工作交由我司售后部门或指定机构进行,本产品的保修范围不适用于因用户拆卸产品而导致的故障。

装箱清单

HDL-MSP08M.4C*1 / 总线端子*1 / 螺丝*2 / 角度遮挡盖*1 / 说明书*1



Detection Range / 感应范围 (25°C)

Mounting height / 安装高度	Sitting / Walking towards constantly / 静坐, 轻微动作 / 朝向走不停顿	Walking towards with pause / 朝向走停顿	Walking across / 切向走动
3m	3m	5m	6m

Figure 10. Detection range
图 10. 感应范围

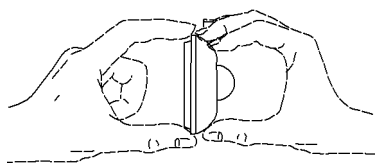


Figure 11 / 图 11

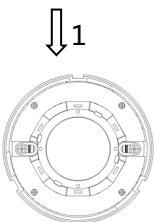


Figure 12 / 图 12

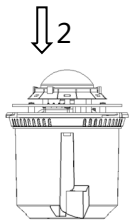


Figure 13 / 图 13

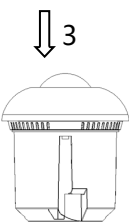


Figure 14/ 图 14

Figure 11 -14. Installation
图 11 - 14. 安装图

技术支持

服务热线 : 020-85820195

(工作时间 : 9:00-12:00, 13:00-18:00, 星期一至星期五)

邮箱 : kfb@hdlchina.com.cn

网址 : http://www.hdlchina.com

Technical support

E-mail: support@hdlchina.com.cn

Website: https://www.hdlautomation.com

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EN

Technical Data

Electrical Parameters

Working voltage	18~30V DC
Working current	30mA/24V DC
IR transmit frequency	38kHz
Detection range	Φ6m (Installation height:3m)
IR emission distance	4m
Illumination sensing range	0~500Lux

External Environment

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

Specifications

Dimensions	Φ84mm×42.5mm
Net weight	55.4g
Housing material	ABS
Installation	Ceiling mount (See Figure 11 - 14)
Protection rating (Compliant with EN 60529)	IP20

Name and Content of Hazardous Substances in Products

Components	Hazardous substances					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Chromium VI (Cr (VI))	Poly-brominated biphenyls (PBB)	Poly-brominated diphenyl ethers (PBDE)
Plastic	o	o	o	o	o	o
Hardware	o	o	o	o	-	-
Screw	o	o	o	x	-	-
Solder	x	o	o	o	-	-
PCB	x	o	o	o	o	o
IC	o	o	o	o	x	x

The symbol "-" indicates that the hazardous substance is not contained.
The symbol "o" indicates that the content of the hazardous substances in all the homogeneous materials of the component is below the limit requirement specified in the Standard IEC62321-2015.
The symbol "x" indicates that the content of the hazardous substance in at least one of the homogeneous materials of the part exceeds the limit requirement specified in the Standard IEC62321-2015.

HDL Buspro Cable Guide

HDL Buspro	HDL Buspro/KNX	CAT5/CAT5E
DATA+	Yellow	Blue/Green
DATA-	White	Blue White/Green White
GND	Black	Brown White/Orange White
24V DC	Red	Brown/Orange

ZH

技术参数

电气参数

工作电压	18~30V DC
工作电流	30mA/24V DC
发射载波频率	38kHz
感应范围	Φ6m (安装高度3m)
红外发射距离	4m
照明感应范围	0~500Lux

外部环境

工作温度	-5°C~45°C
工作相对湿度	≤90%
储存温度	-20°C~60°C
储存相对湿度	≤93%

产品规格

尺寸	Φ84mm×42.5mm
净重	55.4g
外壳材料	ABS
安装方式	吸顶式圆形暗盒安装 (见图11-14)
防护级别 (符合 EN 60529)	IP20

产品中有害物质的名称及含量

部件名称	有害物质					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
塑胶组件	o	o	o	o	o	o
五金铜件	o	o	o	o	-	-
螺丝组件	o	o	o	x	-	-
焊锡	x	o	o	o	-	-
PCB组件	x	o	o	o	o	o
IC	o	o	o	o	x	x

- : 表示不含有该有害物质。
o : 表示该有害物质在该部件所有均质材料中的含量均在IEC62321-2015规定的限量要求以下。
x : 表示该有害物质至少在该部件的某一均质材料中的含量超出IEC62321-2015规定的限量要求。

总线定义

HDL Buspro	HDL Buspro/KNX	CAT5/CAT5E
DATA+	黄	蓝/绿
DATA-	白	蓝白/绿白
GND	黑	棕白/橙白
24V DC	红	棕/橙