



Figure 1. Ceiling Mount PIR & LUX Sensor
图 1. 吸顶式PIR & 照度传感器

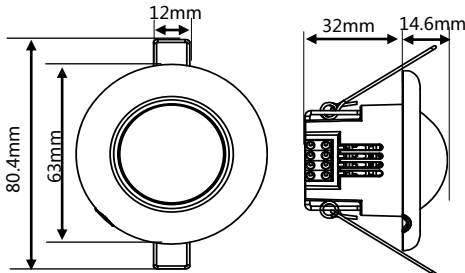


Figure 2. Dimensions-Front View Figure 3. Dimensions-Side View
图 2. 尺寸图-正面 图 3. 尺寸图-侧面

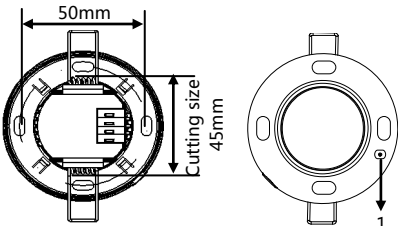


Figure 4. Dimensions-Back View Figure 5-1. Components - Interior View
图 4. 尺寸图-背面 图 5-1. 部件 - 内部图

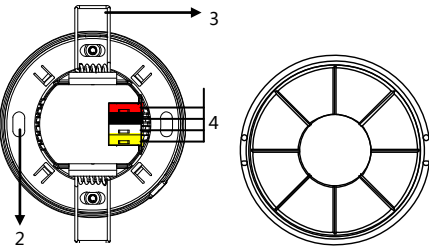
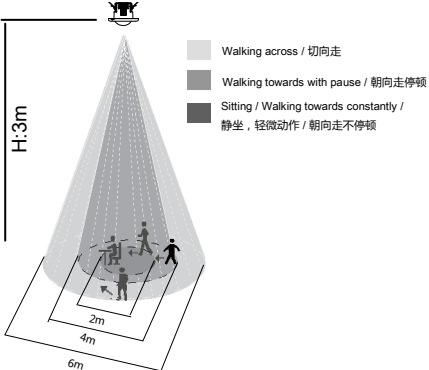


Figure 5-2. Components - Back View Figure 6. Accessory - Angle Cover
图 5-2. 部件 - 背面图 图 6. 配件 - 角度遮挡盖



Detection Range / 感应范围 (At 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	2m	4m	6m

Figure 7. Detection range
图 7. 感应范围

Overview

Ceiling Mount PIR & LUX Sensor (See Figure 1) includes PIR motion sensor, LUX sensor. And internal logic block can combine all the sensors for different application in accordance with customers' needs. The sensor supports HDL security mode and command.

Functions

- Equipped with Lux sensor, PIR sensor and universal switch, which can be used as logic conditions.
- 2 logic relations (OR, AND) can be selected.
- 24 logic blocks function, up to 20 control targets in each logic block.
- Adjustable PIR sensitivity from 1 to 10.
- Universal switch number are assigned to 201-248 in logic conditions. And 2 switch numbers for each logic and universal switch support auto-off function. (Delay time: from 1 to 3600 seconds).
- Logic can trigger different targets no matter it is true or false.
- Security function (security module required)
- Online update supported via HDL Buspro Setup Tool.

Important Notes

- Buspro - CAT5E or HDL Buspro/KNX dedicated cable
- Buspro connection - Series connection (hand-in-hand recommended)
- Installation position - Ceiling mount
- Check the connection, avoid any mistake
- Installation position: Indoor, keep it away from AC outlet and heat source.

Product Information

Dimensions - See Figure 2 - 4

Components - See Figure 5 - 1 and 5 - 2

1. Address setting button & module indicator:

Keep pressing the button for 3 seconds, then the address of the module can be read and modified in HDL Buspro Setup Tool. (Address management → Address modification.)

Indication: The indicator can be set to indicate status or not. If yes, when the sensor detects movement, the LED indicator will turn on; if not, whether there is movement or not, it always keeps off.

- Screw hole
- Spring clips
- HDL Buspro: From top to bottom: +DC24V、COM、DATA-、DATA+

Accessory - See Figure 6: 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 7

Product installation

Ceiling-mounted - See Figure 8 - 10

Step 1. When installing the sensor in the thin ceiling, produce an opening of diameter 45mm in the ceiling.

Step 2. Fix the sensor into position with the assistance of the spring clips after wiring.

Flush-mounted - See Figure 11 - 14

Step 1. When installing the sensor in the thick wall, produce an opening of diameter 45mm and depth of 35mm in the wall.

Step 2. Remove the spring clips and pry apart the cover and the sensor.

Step 3. Fix the sensor in the wall with screws.

Step 4. Attach the cover to 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.
- Please resort to our customer service department or designated agencies for maintenance service. The warranty is not applicable for the product fault caused by private disassembly.

Package Contents

HDL-MSP02.4C*1 / Buspro connector*1 / Angle cover*1 / Datasheet*1

产品概述

吸顶式PIR & 照度传感器 (见图1) 包含PIR传感器, 照度传感器。内部逻辑将红外移动传感器、照度传感器、通用开关等条件, 根据需求组成不同的逻辑功能, 满足客户不同需求。同时支持HDL安防模式及安防指令。

功能说明

- 内设照度传感器、PIR传感器、通用开关等逻辑条件
- 具有2个可选逻辑关系: OR、AND
- 具有24个逻辑块功能, 每个逻辑块可设置20个目标输出
- 红外传感器灵敏度可调节, 灵敏度范围为 1~10
- 逻辑条件中通用开关号分配为201~248, 每个逻辑2个开关号, 通用开关有自动关闭功能, 时间范围为 1~3600秒
- 逻辑成立与否可触发不同的控制目标
- 安防预警功能, 需要与安防模块配合使用
- 支持HDL Buspro在线升级

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 - 吸顶安装
- 按照总线定义连接相应的端口, 不能接错
- 安装位置: 室内, 远离空调出风口, 远离热源

产品信息

产品尺寸 - 见图 2-4

产品部件 - 见图 5-1和5-2

1. 地址设置键&指示灯 (打开外壳之后才能看到)

长按该键约3秒指示灯闪烁, 此时在HDL Buspro Setup Tool软件中可修改地址。地址管理→修改地址, 可读取和修改设备地址。

指示灯: 可以设置是否指示状态。若设置为指示, 则感应到动静时灯长亮, 没动静时灯灭。若设置为不指示, 则有无动静均不指示。

- 螺丝孔
- 弹簧支架
- HDL Buspro接口: 从上至下为+DC24V、COM、DATA-、DATA+

配件 - 见图6: 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 7

设备的安装

弹簧支架安装 - 见图8-10

步骤1. 在薄的天花板、木板上安装时, 在天花板、木板上开个直径45mm的圆孔。

步骤2. 用弹簧支架卡住, 即可固定。

螺丝安装 - 见图11-14

步骤1. 在较厚的墙壁、天花木板上安装时, 在墙壁开个直径45mm, 深35mm的圆孔。

步骤2. 取掉弹簧支架, 用手指在传感器的拆分缺口撬开面盖, 传感器面盖即可打开。

步骤3. 用螺丝固定传感器的底座。

步骤4. 盖上传感器面盖。

安全警告

- 本设备的安装及调试工作必须由我司或我司指派机构进行。其电气安装的计划和施工, 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-MSP02.4C*1 / 总线端子*1 / 角度遮挡盖*1 / 说明书*1

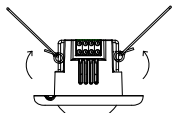


Figure 8 / 图 8

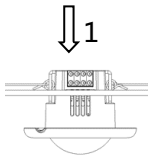


Figure 9 / 图 9

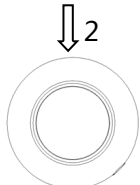


Figure 10 / 图 10

Figure 8 - 10. Installation – Ceiling-mounted
图 8 - 10. 弹簧支架安装图

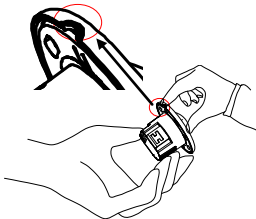


Figure 11 / 图 11

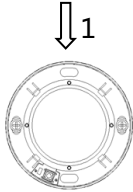


Figure 12 / 图 12

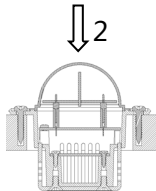


Figure 13 / 图 13

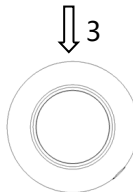


Figure 14 / 图 14

Figure 11 - 14. Installation – Flush-mounted
图 11 - 14. 螺丝安装图

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	20mA/24V DC
Detection range	Φ6m (Installation height: 3m)
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	Φ63×46.6(mm)
Net weight	91g
Housing material	ABS, Infrared lens
Installation	Ceiling-mounted/Flush-mounted (See Figure 8 -10/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	20mA/24V DC
感应范围	Φ6m(安装高度:3m)
照度感应范围	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	63mm(直径)×46.6mm
净重	91g
外壳材料	ABS, 红外镜头
安装方式	弹簧支架安装/螺丝安装 (见图8-10/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