

带恒照度移动传感器技术规格书

适用型号：
CSBPC-02/00.1

国际标准的家庭和楼宇控制系统



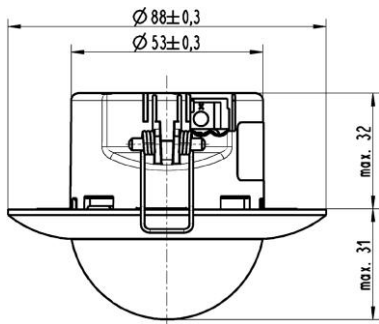
产品功能

- 照度测量
- 支持移动探测/存在探测，可通过对象禁用或开启
- 照度测量支持内部传感器测量，也支持外部传感器测试，内部测量值可通过总线校准或参数
- 存在探测集成了用于 HVAC 应用的附加控制功能，如加热、送风、空调系统的开关等
- 移动/存在探测和照度感应的集成控制，即移动/存在探测控制受环境照度的影响
- 移动/存在探测可工作在单个设备或主设备模式，或作为从设备工作，以扩大检测区域
- 移动/存在探测支持序列操作，即检测到移动/存在后，可先后发送两个报文，检测到没有动作及延时完成后，可再次先后发送两个报文，报文类型支持 1bit,1byte,2byte
- 支持 2 级灯光控制，即根据当前照度和照度阈值进行开关灯控制
- 支持恒定光亮度控制，恒定光亮度控制器对光照设定值和实际值进行比较，并输出控制值

技术参数

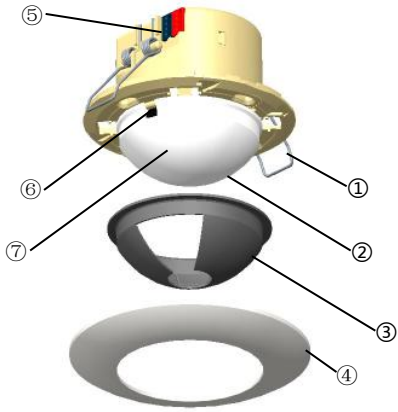
总线电源	总线电压	21-30V DC 通过 EIB 总线获得
	总线电流	10mA
	总线功耗	300mW
连 接	EIB/KNX	总线连接端子（直径 0.8 mm ² ）
存在检测	被动红外探测器(PIR)，水平 360°，垂直约 105°，288 个扇区	
照度测量	采用对比测量方式，20..1000LUX，校准后上限为 20000LUX	
安装	吸顶式安装方式	
保护等级	IP 20，EN 60529	
温度范围	运行	- 5 °C ... + 45 °C
	存储	-20 °C ... + 55 °C
	运输	- 20 °C ... + 70 °C
环境条件	湿度	5%~93%，结露除外

尺寸规格



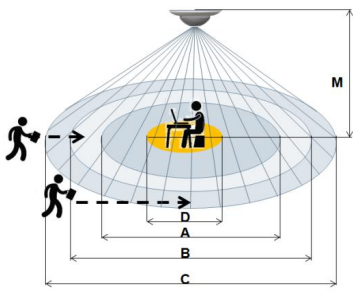
型号	尺寸	重量
CSBPC-02/00.1	88 mm x 63 mm	0.07kg

接线图



- ①固定夹
- ②探测器镜片
- ③遮光罩
- ④设计环
- ⑤KNX/EIB 总线连接端子
- ⑥编程按钮
- ⑦编程指示灯位置

安装感应示意图



M	A	B	C	D
5.0	-	8.5	14	3.0
4.0	-	7.5	12	2.3
3.5	5.5	6.5	10	2.0
3.0	5	6	8	1.6
2.5	4.5	5	7	1.2

上表中显示不同安装高度(M)所对应的最大感应范围:直径(米)。

检测范围分为以下几个方面：

- A.坐在办公桌位置（台面高度 0.8 米）
- B.走向探测器
- C.走过探测器
- D.办公桌位置的亮度测量区域

安装注意事项

1. 远离空调，冰箱，火炉等空气温度变化敏感的地方；
2. 在温度一定的情况下，风速对传感器的影响不是很大；
3. 当环境温度接近人体温度的时候，传感器反应不是很灵敏，甚至会失灵；
4. 传感器和被探测的人体之间不得间隔家具、大型盆景、玻璃、窗帘等其他物体；
5. 传感器不能直对门窗及有阳光直射的地方(照度和移动)，否则窗外的热气流扰动和人员走动，会使移动传感器误报，光线的剧烈变化会使照度传感器误报。
6. 设备安装必须由授权的电工安装和调试。
7. 对于恒照度控制推荐安装高度 2.4~3.0 米，高度大于 3 米时，建议在现场进行测试。

重要提示

安装和调试设备只能由合格的熟练电工来操作。在计划与实施电气安装的过程中相关的标准、指令、规则和指示都要严格执行。

- 需要避免器件在运输、储存、使用的过程中受潮、脏污以及受损。
- 不要使器件运行在指定的技术指标之外（例如温度范围）。

当设备脏污时，只可以使用干燥的布来清洁。如果这样不足以清洁干净,可以使用湿布蘸少许肥皂溶液轻轻擦拭。绝不能使用碱剂或者腐蚀性溶剂。

Technical Sheet For Presence Sensor with Constant Lighting

CSBPC-02/00.1



The worldwide STANDARD for home and building control

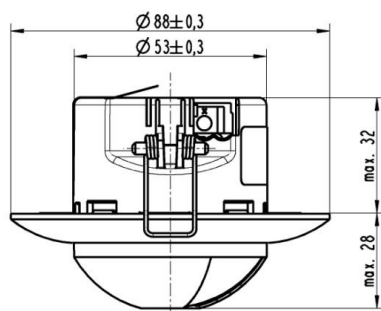
CHARACTERISTICS

- Brightness measuring.
- Motion detector and Presence detector, which can be locked or released via object.
- The brightness measuring via internal light sensor or KNX, and the internal sensor measuring can be calibrated via object or a correction factor.
- Presence detector additional HVAC applications control output, as such heating, ventilating and climate control of the room.
- Motion or Presence detector can be integrated control with ambient brightness.
- Use as single device or as main detector, respectively secondary detector, to extend the presence detection zone.
- Sequence operation for the Motion or Presence detector
- Integrated 2-level light control (switching).
- Integrated constant light level control (dimming).

PARAMETERS

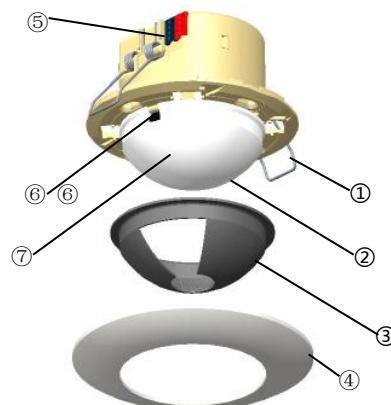
Bus supply	Bus voltage	21-30V DC, Via KNX/EIB
	Bus current	approx. 10mA
	Bus consumption	approx. 300mW at 30V DC
Connection	EIB/KNX	Bus connection terminal
Presence detection	Passive infrared (PIR), Horizontal 360°, vertical approx. 105°, 288 sectors	
Brightness measurement	Contrast measurement, 20~1000LUX, the upper limit after calibration is 20000 LUX	
Installation	Ceiling mounting	
Protection class	IP 20, to EN 60529	
Temperature range	Operation	-5 °C ... + 45 °C
	Storage	-20 °C ... + 55 °C
	Transport	-20 °C ... + 70 °C
Environment	Humidity	5~93%, except condensation

DIMENSIONS



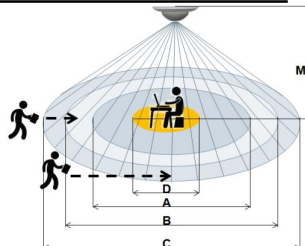
Model	Dimension	Weight
CSBPC-02/00.1	88 mm x 63 mm	0.07kg

DESCRIPTIONS



- ① Fixing clamps
- ② Detector lens
- ③ Shade
- ④ Design ring
- ⑤ KNX/EIB bus connection terminal
- ⑥ Programming button
- ⑦ Programming LED position

INSTALLATION DIAGRAM



M	A	B	C	D
5.0	-	8.5	14	3.0
4.0	-	7.5	12	2.3
3.5	5.5	6.5	10	2.0
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Above table shows the maximum reachable diameter in meter of the different areas for different installation heights (M).

The detection range is divided in following areas:

Detection of a person

- A. sitting in working desk height (0.8m)
- B. walking straight to the detector
- C. walking across the detector
- D. Area of the brightness measuring in working desk height (0.8m)

ATTENTION OF INSTALLING

1. Keep it far away fridge, air conditioning, and stovepipe, where temperature changes violently.
2. In a certain temperature, speed of wind affects a little.
3. If ambient temperature approaches body temperature, the sensor will lose efficacy.
4. Between the sensor and detected area must not have stumbling block.
5. Sensor can not be directly on the windows and doors, and where there is direct sunlight. Air flow and dramatic changes in light will case sensor generates fault alarm.
6. The device must be mounted and commissioned by an authorized electrician.
7. The device is intended for ceiling mounting. And recommended mounting height for constant light level control: 2.4m~3.0m

IMPORTANT INFORMATION

Installation and commissioning of the device may only be carried out by trained electricians. The relevant standards, directives, regulations and instructions must be observed when planning and implementing the electrical installation.

• Protect the device against moisture, dirt and damage during transport, storage and operation!

• Do not operate the device outside the specified technical data (e.g. temperature range)!

Should the device become soiled, it may be cleaned with a dry cloth. If this does not suffice, a cloth lightly moistened with soap solution may be used. On no account should caustic agents or solvents be used.