# Panasonic 使用说明书

# 通过检测型光电传感器 检测头 **TP-H21**

执行标准号: Q/320500 SUNX 23 MCE-TPH21 No.0048-09V 非常感谢您购买 Panasonic 产品。

请仔细、完整地阅读此使用说明书以便正确、合理地使用此产品。 请把此使用说明书放在随手可得之处以便快速查找。

# ♠ 警告

- 请勿将本产品作为人体保护用的检测装置。
- 如以人体保护为目的, 请使用 OSHA、ANSI 及 IEC 等各国适用于人体保护用的产品。

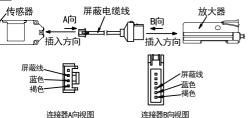
### 1 注意事项

- 本产品是以工业环境使用为目的所开发、制造的产品。
- 请确认在电源关闭状态下进行接线。
- 注意错误接线可能损坏传感器。
- 请确认电源电压在额定范围内变化。
- 如果电源由一商用开关调节器提供,请确保电源机架接地端子 (F.G.)接地。
- 如果在该产品附近使用产生噪音的设备,(如开关调节器或转换 发动机等),请将设备机架接地端子(FG)接地。
- 请勿与高压线或电源线一起或在同一电线管内运行线路。这可能会由于感应引起误动作。
- 电源接通后的短时间 50ms 内, 请勿使用。
- 请勿将传感器直接暴露于快速启动灯或高频照明设备的荧光及 太阳光等下面,这样会影响检测性能。
- 请勿对电缆根部分加上压力, 比如勉强弯曲、硬拉等。
- 避免灰尘、污垢和水蒸气或腐蚀性气体。
- 请勿将传感器与强酸、强碱、油、油脂或有机溶液,如稀释剂等接触。
- 不可拆卸或改装传感器。

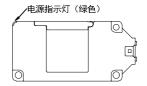
# 2 规格

(2)
5% RH
度1,500ℓx以下
Og

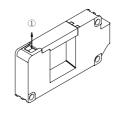
# 3 传感器与放大器连接示意图

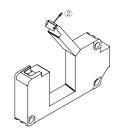


# 4 各部分名称



# 5 传感器盖板打开方法



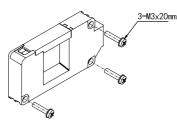


①用手指扣住盖板头部卡扣向上拉。

②当盖板打开后, 使盖板沿转轴旋转。

※盖板打开角度约100度,不可强力操作以免引起盖板损坏。

# 6 安装



用3颗M3X20mm的螺丝将产品固定。 最大扭矩为1N·m以下。

# 7 产品中有害物质的名称及含量

产品中有害物质的名称及含量

				有害物质		
部品名称	铅 (Pb)	水银 (Hg)	镉 (Cd)	六价铬 ( Cr(VI) )	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
实装电路板	×	0	0	0	0	0
外部部件(※)	0	0	0	0	0	0
木事格体提SI/T11364的期空编制						

。 表示该有害物质在该部件所有均质材料中的含量均在GB/T 26572 规定的限量要求以下。 ×:表示该有害物质在该部件所有均质材料中的含量均在GB/T 26572 规定的限量要求以下。

(※):外装部件包括外廓壳体、标牌类、光学系零件、电缆、连接器配线用螺丝、端子、安装支架等零件。

<批号含义>

AC1N(2010年3月生产)

□月[A(1月)、B(2月)、C(3月)・・・・・L(12月)]



# 制造商: 松下神视电子(苏州) 有限公司

地址:江苏省苏州市苏州新区火炬路97号

销售商:松下电器机电(中国)有限公司

网址:http://device.panasonic.cn/ac/c 地址:中国(上海)自由贸易试验区马吉路88号7、8号楼二层全部位

元器件客服中心 客服执线:400-920-9200 传真:800-820-7185

各服热线:400-920-9200 传具:800-820-7 在中国印刷

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# Panasonic Instruction Manual

Sensing Head of Through Pass Photoelectric Sensor

#### TP-H21

Thank you very much for purchasing Panasonic products. Please read this Instruction Manual carefully and thoroughly for the correct and optimum use of this product.

Kindly keep this manual in a convenient place for quick reference.

# \WARNING

- Never use this product as a sensing device for personnel protection.
- In case of using sensing devices for personnel protection, use products meeting OSHA, ANSI and IEC standards etc.

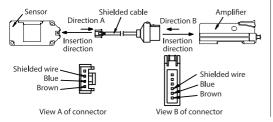
#### CAUTION

- This product is developed/produced for industrial use.
- Be sure to carry out wiring when the power supply is turned OFF.
- Take care that wrong wiring may damage the sensor.
- Verify that the supply voltage variation is within the rating.
- If the power is supplied from a commercial switching regulator, make sure that the ground terminal of power supply frame (i.e. F.G. terminal) is grounded.
- In case noise generating equipment (such as switching regulator or inverter engine etc.) is used near to this product, connect the ground terminal of equipment frame (i.e. F.G. terminal) to the actual ground.
- Do not run the wires together with high-voltage lines or power lines, or put them in the same raceway. Otherwise it may cause malfunction due to mutual induction.
- Do not use it within the short time of 50 ms after the power supply is turned ON.
- Do not expose the sensor directly to the fluorescence from fast starting light or high-frequency lighting device or sunlight etc., as it may affect the sensing performance.
- Do not apply stress by forcible bending or pulling etc. to the cable joint of sensor.
- Do not use this product in places having dust, dirt, vapor or corrosive gases.
- Do not make the sensor contact with strong acid, alkaline, oil, grease or organic solvent such as thinner etc.
- Never disassemble or modify the sensor.

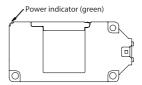
# **SPECIFICATIONS**

Model No.		TP-H21
Sensing range		21mmx21mm
Sensing object		Φ 0.5 mm or more opaque
Power indicator		Green LED (light up when the power is ON)
ance	Ambient temperature	-10°C to +55°C (Without freezing or condensation)
Ambient temperatur Ambient humidit Ambient humidit Ambient illuminance	Ambient humidity	35% RH to 85% RH, Storage: 35% RH to 85% RH
nment	Ambient	10,000 $\ell$ x or less at the light-receiving face (fluorescent lamp),
Enviro	illuminance	1,500 $\ell$ x or less at the light-receiving face (sunlight)
Emitting element		Infrared LED
Material		Enclosure: PC Lens: PMMA
Weight		Net weight: approx. 15 g Packing weight: approx. 20 g

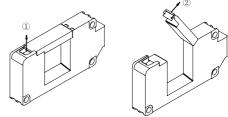
#### 3 CONNECTION DIAGRAM OF SENSOR AND **AMPLIFIER**



### 4 PART NAME

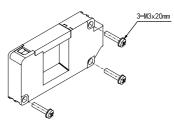


# 5 OPENING METHOD OF SENSOR COVER



- ①Hold the hook in the tip of cover by finger, and lift it up. ②After opening the cover, rotate it along the pivot. ※The opening angle of cover is about 100 degrees. Never operate it forcibly so as not to damage the cover.

# INSTALLATION



Fix the product securely with three M3 (length 20 mm)

The maximum tightening torque is 1 N·m or less.

#### Panasonic Industrial Devices SUNX Suzhou Co., Ltd.

http://panasonic.net/id/pidsx/global

No.97, Huoju Road, New District Suzhou, Jiangsu province, China Phone: +86-512-6843-2580 FAX: +86-512-6843-2590

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