

## Ultra-slim Body Area Sensor

- Ultra-slim Body only 13mm thickness.
- Both the receiver and the emitter feature job indicators, 102 mm, with red bright LED.
- Three types, includes 8, 12, and 16 beam
- Interference prevention for parallel installation.
- Selectable lighting pattern.



## 超薄型安全光幕

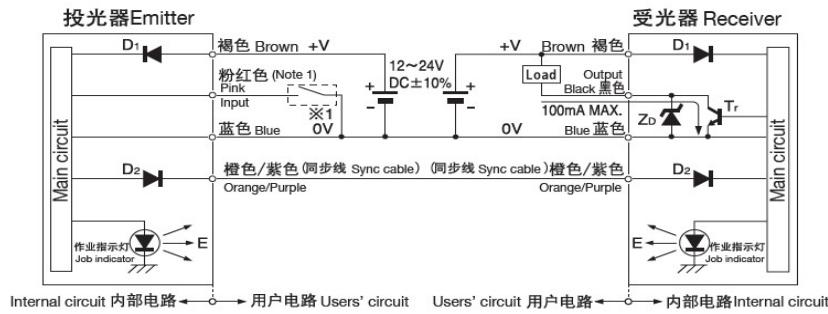
- 超薄的外壳，厚度只有13mm
- 投光器和受光器两面都装有清晰的作业指示灯，高度为102mm，当检测输出直接连接作业指示灯输入时，还可作为大型工作状态指示灯使用
- 3种检测高度，包括8、12和16光轴型
- 并行安装的防干扰设置
- 可选亮起动作

## ► Order Information 种类

检测方式 Sensing method	形状 Appearance	检测距离 Sensing distance	动作模式 Operation mode	型号 Model
对射型(投光器+受光器) Throughbeam (Emitter + Receiver)		4m	入光时ON Light-ON	NPN I6N - N8
				PNP I6N - P8
				NPN I6N - N12
				PNP I6N - P12
				NPN I6N - N16
				PNP I6N - P16

## ► Output Circuits 输出回路

### ● NPN输出型



Note 1: 当投光器上第四个工作模式转换开关设定在OFF侧时，输入(粉红色)是作业指示灯输入，开关在ON侧时是投光停止输入。  
Input(pink) is the job indicator input when No.4 of operation mode switch on the emitter is set to OFF side, and it is the test input when the switch is set to the ON side.

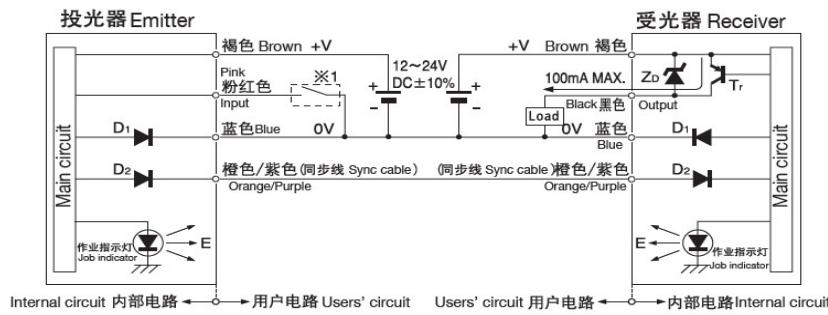
Note 2: 把作业指示灯作为大型工作显示灯使用时，把输入线(粉红色)连接到输出线上(黑色)。  
If a connection cable is connected to the relay connector type, then the lead wire color is "white".

Note 3: 当设定投光停止输入时，作业指示灯不亮或闪烁。  
When the test input is set to the job indicator does not light up or blink.

\*1 无电压接点或NPN开路集电极晶体管  
Non-contact voltage or NPN open-collector transistor

低Low: 0~2V  
高High: 5~30V, 或开路or open

### ● PNP输出型



Note 1: 当投光器上第四个工作模式转换开关设定在OFF侧时，输入(粉红色)是作业指示灯输入。  
Input(pink) is the job indicator input when No.4 of operation mode switch on the emitter is set to OFF side, and it is the test input when the switch is set to ON side.

Note 2: 把作业指示灯作为大型工作显示灯使用时，把输入线(粉红色)连接到输出线上(黑色)。  
If a connection cable is connected to the relay connector type, then the lead wire color is "white".

Note 3: 当设定投光停止输入时，作业指示灯不亮或闪烁。  
When the test input is set to the job indicator does not light up or blink.

\*1 无电压接点或PNP开路集电极晶体管  
Non-contact voltage or PNP open-collector transistor

低Low: 0~2V, 或开路or open  
高High: 8V~+V

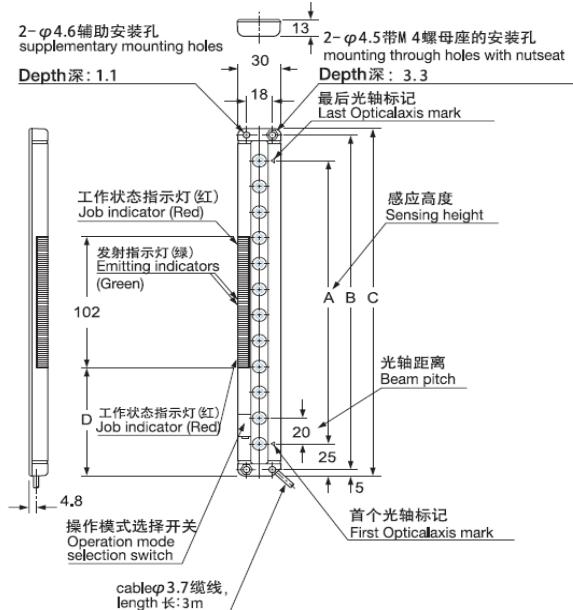
## ► Ratings and Specifications

## 额定规格/性能

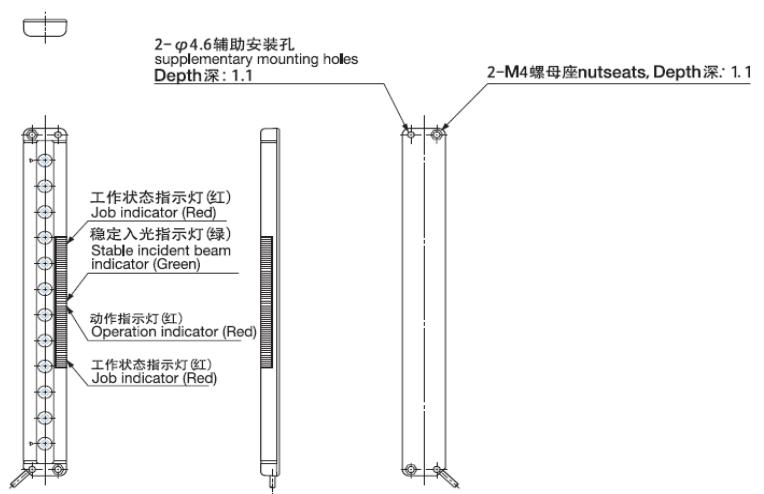
光轴数 Number of Channels			8	12	16			
产品型号 Type			I6N - N8	I6N - N12	I6N - N16			
检测高度 Sensing height			140mm	220mm	300mm			
检测物体 Sensing object			不透明物体 opaque object: $\phi 30\text{mm}$ in.					
检测距离 Sensing range			4m					
光轴间距 Beam pitch			20mm					
电源电压 Voltage			12~24V DC 脉动pulse (P-P) $\pm 10\%$ max.					
消耗电流 Current consumption	投光器 Emitter	作业指示灯亮起 Job indicator ON	0.7W max.	0.8W max.	0.9W max.			
	受光器 Receiver	作业指示灯熄灭 Job indicator OFF	0.6W max.	0.7W max.	0.8W max.			
	受光器 Receiver	作业指示灯亮起 Job indicator ON	0.7W max.	0.8W max.	0.9W max.			
	受光器 Receiver	作业指示灯熄灭 Job indicator OFF	0.6W max.	0.7W max.	0.8W max.			
输出 Output			(NPN) NPN开路集电极晶体管0 pen-collector transistor ●最大流入电流 Maximum sink current: 100mA ●外加电压 Applied voltage: 30V DC max. (输出和OV之间between output and OV) ●剩余电压 Residual voltage: 1V max.(流入电流sink current: 100mA) 0.4V max.(流入电流sink current: 16mA)	(PNP) PNP开路集电极晶体管0 pen-collector transistor ●最大流入电流 Maximum sink current: 100mA ●外加电压 Applied voltage: 30V DC max. (输出和+V之间between output and +V) ●剩余电压 Residual voltage: 1V max.(流入电流sink current: 100mA) 0.4V max.(流入电流sink current: 16mA)				
输出工作 Output operation			所有光轴入光时ON (1个或多个光轴遮光时OFF) ON when all optical axis are received OFF when one or more optical axis are interrupted					
短路保护 Short-circuit protection			装备 Incorporated					
反应时间 Response time			10ms max. (当使用防干扰功能时when the interference prevention is used: 12ms max.)					
显示灯 Indicators	投光器 Emitter	投光显示灯: 绿色LED x2(投光时亮起, 设定频率A时一个LED亮起, 设定频率B时, 2个LED亮起) Emitting indicator Green LED x 2 Lightup during emission one LED lights up for Frequency A setting, both LEDs lightup for Frequency B setting) 作业显示灯: 红色LED (当使用作业指示灯输入时亮起、闪烁或熄灭.由工作模式转换开关选择亮起形式) Job indicator Red LED (Lights up, blinks or lights off when the job indicator input is applied, selected by operation mode switch)						
	受光器 Receiver	工作状态显示灯: 红色LED (1个或多个光轴遮光时亮起) Operation indicator Red LED (Lights up when one or more optical axis are interrupted) 稳定入光显示灯: 绿色LED (稳定接受到所有光轴时亮起) Stable incidentbeam indicator Green LED (Lights up when all optical axis are stably received) 作业指示灯: 红色LED (当使用作业指示灯输入时亮起、闪烁或熄灭.由工作模式转换开关选择亮起形式) Job indicator Red LED (Lights up, blinks or lights off when the job indicator input is applied, selected by operation mode switch) ※当通过实处的电流过量时, 由于短路保护电路的操作, 受光器上的稳定入光显示灯和工作状态显示灯会同时闪烁。 ※When an excess current flows through the output, the stable incidentbeam indicator and the operation indicator on the receiver blink simultaneously due to operation of the short-circuit protection circuit						
防干扰功能 Interference prevention function			装备 Incorporated					
使用环境温度 Ambient temperature			动作时 Operating: -10~+55°C, 保存时 Storage: -10~+60°C (不结冰不结露 with no icing or condensation)					
周围环境湿度 Ambient humidity			动作时 Operating: 35~85% RH, 保存时 Storage: 35~85% RH (不结露 with no condensation)					
投光二极管 Emission element			红外发光二极管 Infrared LED (调制式modulated)					
保护构造 Degree of protection			IEC - IP 40					
材质 Material			外壳 Enclosure: Heat-resistant ABS, 透镜罩 Lens cover: 聚酯 Polyester, 显示灯罩 Indicator cover: 丙烯 Acrylic					
重量 Weight			约 Approx: 350g	约 Approx: 400g	约 Approx: 450g			

## ► Dimensions 外形尺寸

## ● 投光器 Emitter



## ● 受光器 Receiver



Unit 单位 : mm

Model No.	A	B	C	D
I6N-N(P)8	140	180	190	52
I6N-N(P)12	220	260	270	84
I6N-N(P)16	300	340	350	124