

All type with sensitivity adjuster, easy to get the best sensing condition.

所有類型均帶有靈敏度調節器，易於獲得最佳的感應條件。

All DC type with NPN & PNP output, meet any control requirement.

具有NPN和PNP輸出的所有DC類型，滿足任何控制要求。

All DC type having over load protection, and polarity reversed-prote

所有DC類型均具有超載保護和極性反接保護。

All AC type with surge protection, may avoided damaged.

所有AC類型，可避免損壞。

Unique vertical type saving mounted space.

獨特的垂直型節省安裝空間。

High solid compact structure, IP66 applied in poor circumstance suitable.

高固體緻密結構，IP66適用於惡劣環境。



Specification 規格

Power Type	DC Type	AC Type
Operating Voltage	10 ~ 30 VDC , Ripple < 20% of Vp-p	90 ~ 250 VAC , 50/60 Hz
Output Method	NPN & PNP	SCR
Output Current	150mA max.	100mA max.
Residual Voltage	0.8V max.	
Leakage Current	0.8mA max.	2mA max.
Protection Circuit	Short Circuit & Polarity Reversed Protection	Surge Protection Circuit
Response Time	2ms	10ms
Sensitivity Adjuster	270° Trimmer	Non
Hysteresis	10% of Sensing Distance max.	
Illumination	Lamplight < 10,000 Lux. ; Sunlight < 30,000 Lux.	
Connection Method	Lead Wire : 4 Cores / 5.0 ϕ X 2m	Lead Wire : 3 Cores / 4.2 ϕ X 2m
	Plug : 4 Pins	Plug : 3 Pins
Housing Color	Grey	Blue
Housing Material	Intensive Polymid	
Operating Temp./Hum.	-20°C ~ +60°C ; 35% ~ 95% RH	
Protection Class	IP-66	
Weight		

Reflex Type 反射類型

Type	Model	Output Status	Sensing Direction	Sensing Distance	Operating Voltage	Current Consumption	Output Method	Sensitivity Adjuster
Lead Wire	CDR-10X	NO	Horizontal	10cm	10~30VDC	25mA max.	NPN & PNP 150mA max.	270° Trimmer
	CDR-10XB	NC						
	CDR-30X	NO		30cm				
	CDR-30XB	NC						
	CDR-30X-V	NO	Vertical	30cm				
	CDR-30XB-V	NC						
	CAR-10X	NO	Horizontal	10cm	90~250VAC 50/60Hz	0.5VA max.	SCR 100mA	270° Trimmer
	CAR-10XB	NC						
	CAR-10X-V	NO	Vertical	10cm				
	CAR-10XB-V	NC						
Connector	CDR-10X-M12	NO	Horizontal	10cm	10~30VDC	25mA max.	NPN & PNP 150mA max.	270° Trimmer
	CDR-10XB-M12	NC						
	CDR-30X-M12	NO	Horizontal	30cm				
	CDR-30XB-M12	NC						
	CDR-30X-V-M12	NO	Vertical	30cm				
	CDR-30XB-V-M12	NC						

Mirror Reflex Type 反光鏡類型

Type	Model	Output Status	Sensing Direction	Sensing Distance	Operating Voltage	Current Consumption	Output Method	Sensitivity Adjuster						
Lead Wire	CDM-1MR	NO	Horizontal	0.1m~1.6m	10~30VDC	20mA max.	NPN & PNP 150mA max.	270° Trimmer						
	CDM-1MRB	NC												
	CDM-2MX	NO		0.1m~2.5m										
	CDM-2MXB	NC												
	CDM-2MX-V	NO	Vertical	0.1m~2.0m										
	CDM-2MXB-V	NC												
	CAM-2MX	NO	Horizontal	0.1m~2.0m	90~250VAC	0.5VA max.	SCR 100mA	270° Trimmer						
	CAM-2MXB	NC												
	CAM-2MX-V	NO	Vertical											
	CAM-2MXB-V	NC												
Connector	CDM-2MX-M12	NO	Horizontal	0.1m~2.5m	10~30VDC	20mA max.	NPN & PNP 150mA max.	270° Trimmer						
	CDM-2MXB-M12	NC												
	CDM-2MX-V-M12	NO	Vertical	0.1m~2.0m										
	CDM-2MXB-V-M12	NC												

Thru Beam Type 直通光束類型

Type	Model	Output Status	Sensing Direction	Sensing Distance	Operating Voltage	Current Consumption	Output Method	Sensitivity Adjuster
Lead Wire	CDT-10MX	NO	Horizontal	10m	10~30VDC	P<20mA R<25mA	NPN & PNP 150mA	270° Trimmer
	CDT-10MXB	NC						
	CDT-6MX-V	NO	Vertical	6m				
	CDT-6MXB-V	NC						
Connector	CDT-10MX-M12	NO	Horizontal	10m	10~30VDC	P<20mA R<25mA	NPN & PNP 150mA	270° Trimmer
	CDT-10MXB-M12	NC						
	CDT-6MX-V-M12	NO	Vertical	6m				
	CDT-6MXB-V-M12	NC						

Guiding of Model 模型指導

Ex. CDR-30X-B-V-M12
 ① ② ③ ④ ⑤ ⑥

① Model

CDR=DC Reflex Type
 CAR=AC Reflex Type
 CDM=DC Mirror Reflex Type
 CAM=AC Mirror Reflex Type
 CDT=DC Thru Beam Type

② Sensing Distance

30=30cm
 2M=2m
 10M=10m

③ Light Source

X=Infrared LED
 R=Red LED

④ Output Status

B=NC Type
 Non=NO Type

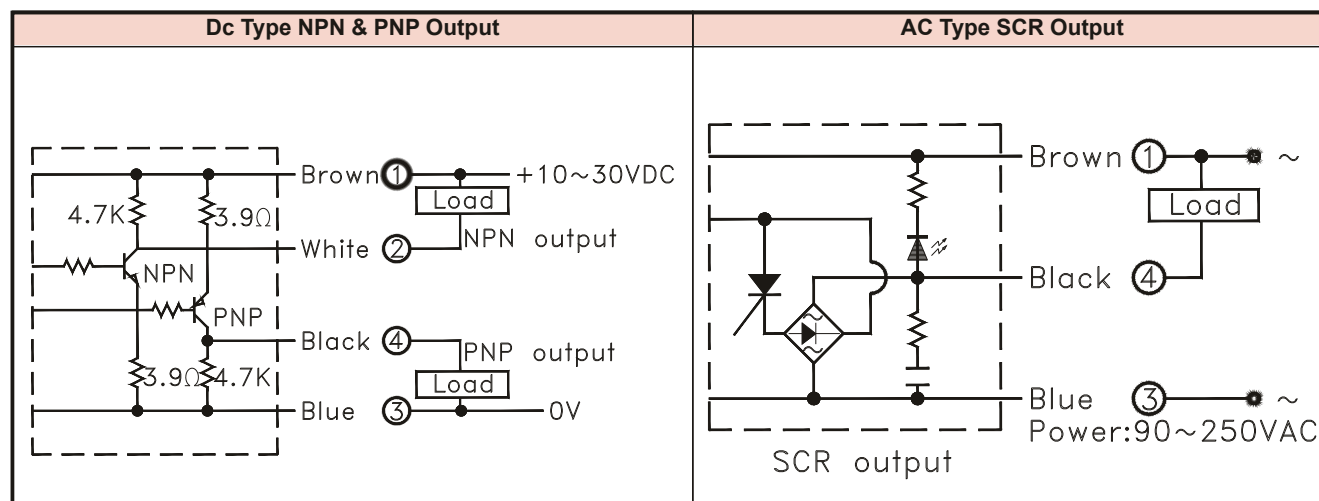
⑤ Sensing Direction

V=Vertical Type
 Non=Horizontal Type

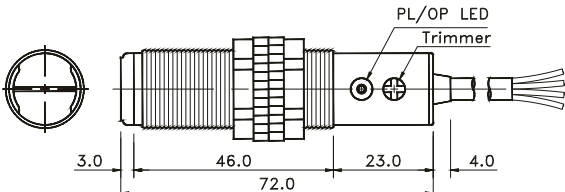
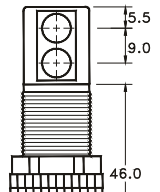
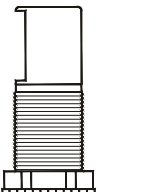
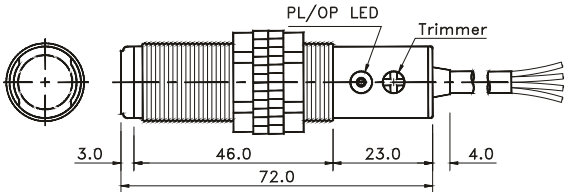
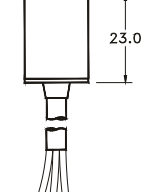
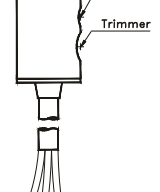
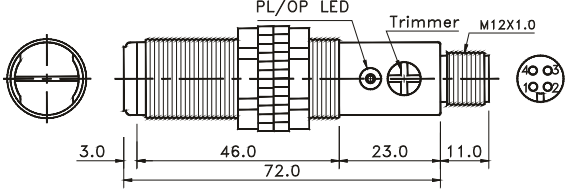
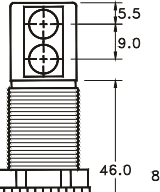
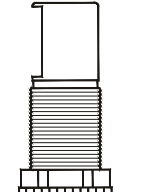
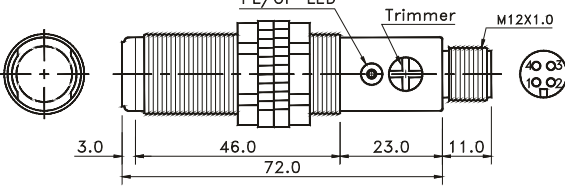
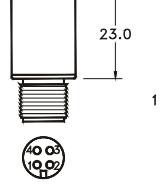
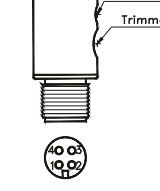
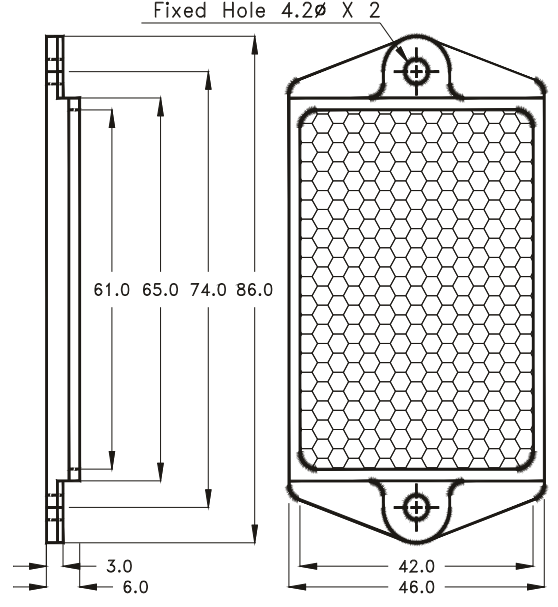
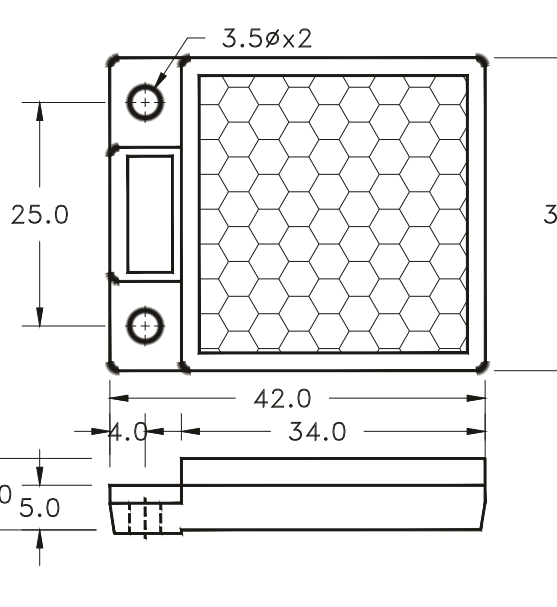
⑥ Connector Type

M12= M12x1.0

Output Circuit & Connection Diagram 輸出電路圖及接線圖



Dimension 尺寸

Lead Wire Type	CDR/CAR/CDM/CAM	Lead Wire Type	Vertical Type
 3.0 46.0 72.0 23.0 4.0		 5.5 9.0 46.0 89.0 23.0	 5.5 83.5
Lead Wire Type	CDT		
 3.0 46.0 72.0 23.0 4.0		 5.5 9.0 46.0 89.0 23.0	 5.5 83.5
Connector Type	CDR-M12/CDM-M12	Connector Type	Vertical Type
 3.0 46.0 72.0 23.0 11.0		 5.5 9.0 46.0 89.0 23.0	 5.5 83.5
Connector Type	CDT		
 3.0 46.0 72.0 23.0 11.0		 5.5 9.0 46.0 89.0 23.0	 5.5 83.5
Mirror	MR-1	Mirror	MR-2
 Fixed Hole 4.2ϕ X 2 61.0 65.0 74.0 86.0 3.0 6.0 42.0 46.0		 3.5ϕx2 25.0 35.0 42.0 34.0 4.0 8.0 5.0	