



**PT MULTI MAKMUR TEKNIKATAMA**

**FOTEK**



**PHO-M18 Series**



[www.multimakmur.co.id](http://www.multimakmur.co.id)



Multi Makmur Teknikatama

## M18-C series

## M18 TUBULAR TYPE PHOTO SENSOR

CE

- ※ All type with sensitivity adjuster, easy to get the best sensing condition.
- ※ All DC type with NPN & PNP output, meet any control requirement.
- ※ All DC type having over load protection, and polarity reversed-Protection.
- ※ All AC type with surge protection, may avoided damaged.
- ※ Unique vertical type saving mounted space.
- ※ High solid compact structure, IP66 applied in poor circumstance suitable.



## Specification

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 / 5.0φ X 2m	Lead Wire : 3 Cores / 4.2φ X 2m
	Plug : 4 Pins	Plug : 3 Pins
Housing Color	Grey	Blue
Housing Material	Intensive Polyimid	
Operating Temp./Hum.	-20°C ~ +60°C ; 35% ~ 95% RH	
Protection Class	IP-66	
Weight		



**PT MULTI MAKMUR TEKNIKATAMA**

**Phone:** +62 21 54350091 | +62 21 54350092 | +62 21 54350181

**Mobile WA:** +62 878 6314 1371 | **Fax:** +62 21 54350182

**Email:** admin@multimakmur.co.id | **Website:** www.multimakmur.co.id





## CE

## M18 TUBULAR TYPE PHOTO SENSOR

## M18-C series

### Reflex Type

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

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						



**PT MULTI MAKMUR TEKNIKATAMA**

**Phone:** +62 21 54350091 | +62 21 54350092 | +62 21 54350181

**Mobile WA:** +62 878 6314 1371 | **Fax:** +62 21 54350182

**Email:** admin@multimakmur.co.id | **Website:** www.multimakmur.co.id



## M18-C series

## M18 TUBULAR TYPE PHOTO SENSOR

CE

### Thru Beam Type

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

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

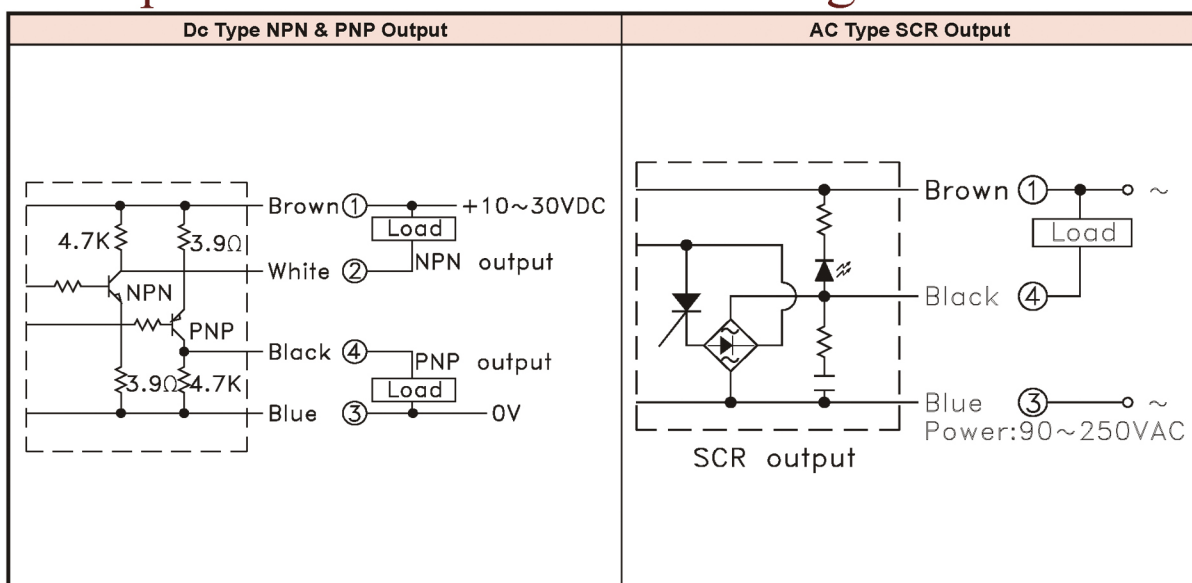
#### ⑤ Sensing Direction

V=Vertical Type  
Non=Horizontal Type

#### ⑥ Connector Type

M12= M12x1.0

### Output Circuit & Connection Diagram



**PT MULTI MAKMUR TEKNIKATAMA**

Phone: +62 21 54350091 | +62 21 54350092 | +62 21 54350181

Mobile WA: +62 878 6314 1371 | Fax: +62 21 54350182

Email: admin@multimakmur.co.id | Website: www.multimakmur.co.id



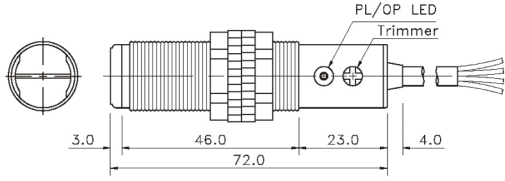
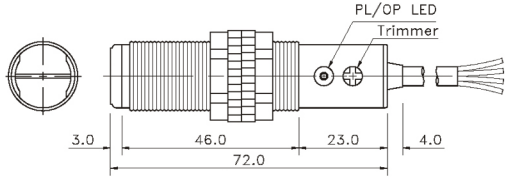
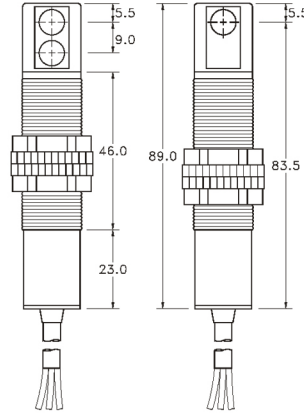
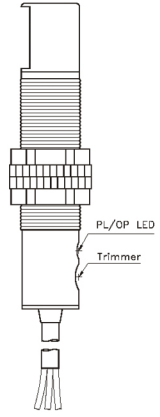
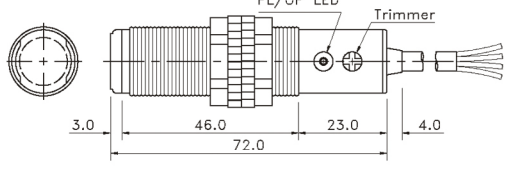
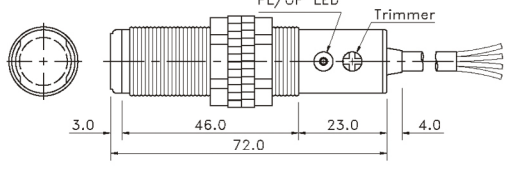
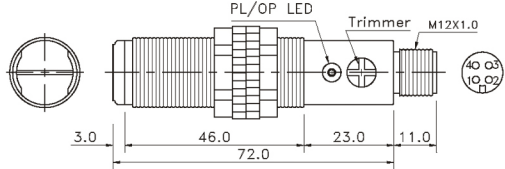
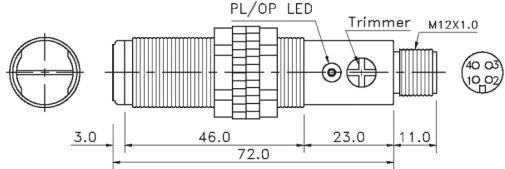
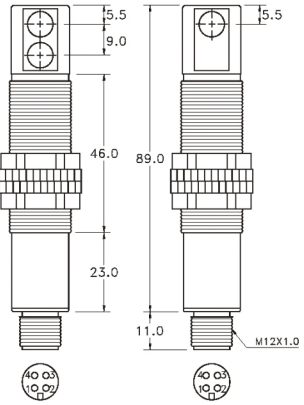
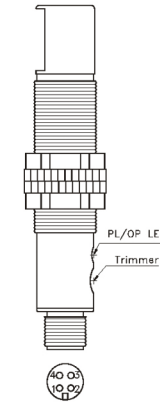
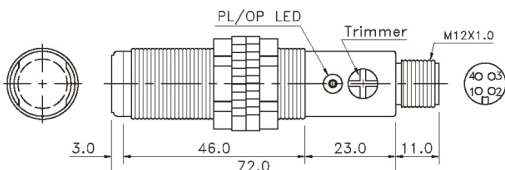
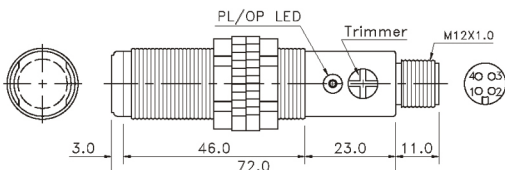
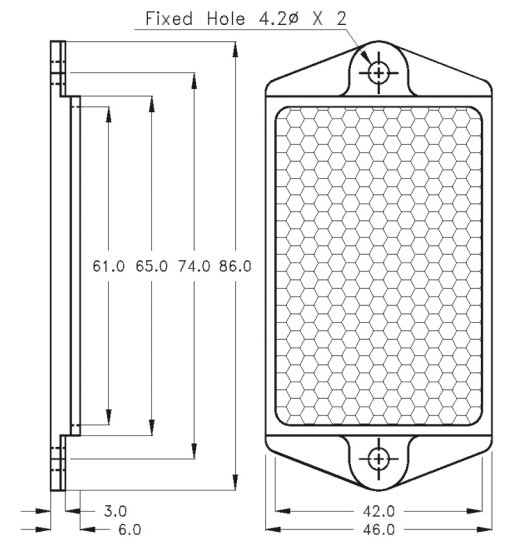
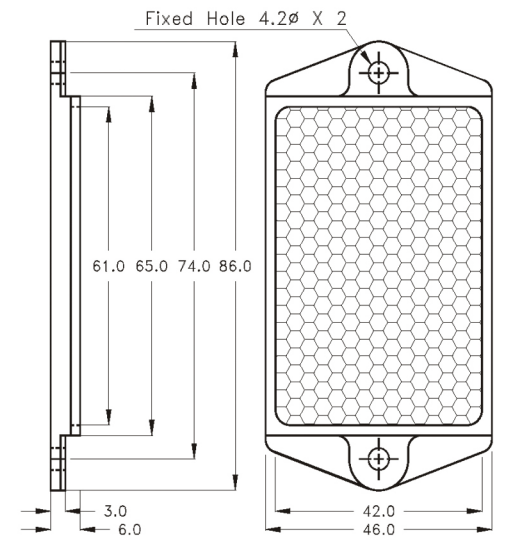
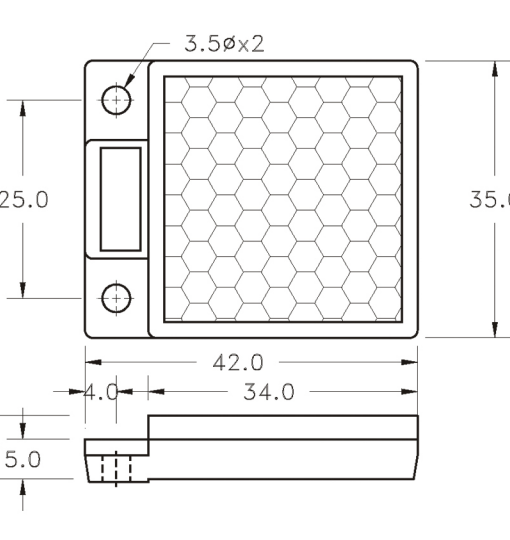
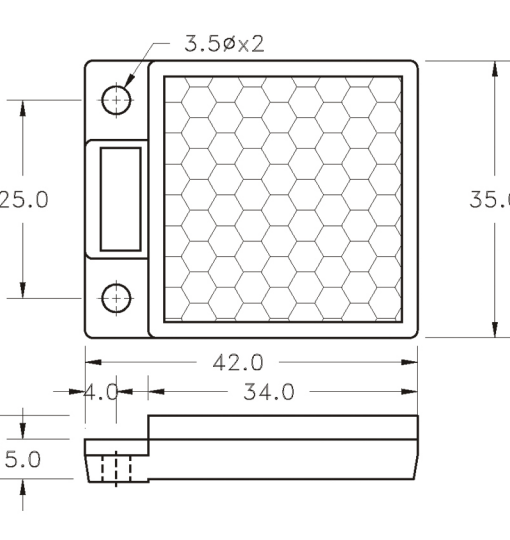


## CE

## M18 TUBULAR TYPE PHOTO SENSOR

## M18-C series

### Dimension

Lead Wire Type	CDR/CAR/CDM/CAM	Lead Wire Type	Vertical Type
			
Lead Wire Type	CDT		
			
Connector Type	CDR-M12/CDM-M12	Connector Type	Vertical Type
			
Connector Type	CDT		
			
Mirror	MR-1	Mirror	MR-2
			



**PT MULTI MAKMUR TEKNIKATAMA**

**Phone:** +62 21 54350091 | +62 21 54350092 | +62 21 54350181

**Mobile WA:** +62 878 6314 1371 | **Fax:** +62 21 54350182

**Email:** admin@multimakmur.co.id | **Website:** www.multimakmur.co.id

