

1 SPECIFICATION Amplifier Unit

	Cable type	M8 connector type				
Туре	RSA-N (P)	RSA-CN (CP)				
Supply voltage	DC10~30V including 10% of ripple					
Current consumption	35mA Max					
Response time	NORM mode: 500 \(\mu s \section MARK mode: 200 \(\mu s \)					
Timer function	OFF delay fixed at 40ms *1					
Control outoput	NPN • PNP Open collector MAX 100mA / DC 30V					
Mode	NORM/MARK mode Selectable by switch					
Circuit protection	Reverse protection, Over current protection					
Ambient temperature	-25~55°C/35~85%(No freezing)					
Protection category · Material	IEC IP40 Case: ABS, Cover: PC					
Accessories	Mounting braket					

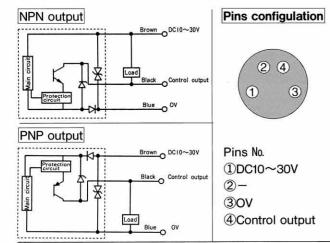
*1 OFF delay timer can be turned off by switch.

Sensor Head

	Through beam		Diffused reflection		Mark Detection					
					Smoll Spot		Marking Spot			
Туре	RT-1500	RT-F300	RD-150	RD-F50	RS-20R	RS-16G	RM-16R	RM-16G		
Scanning distance	1.5m	30cm	15cm ※1	5cm *1	20±2mm *2	16±1mm	16±2mm	16±1mm		
Mode of amplifier		NORM	1 mode		NORM/MARK mode	MARK mode	NORM/MARK mode	MARK mode		
Light source	Red LED					Green LED	Red LED	Green LED		
Hysteresis	-	=====		%	20%(NORM mode)		20% (NORM mode)			
Indicator	Equipped (LIGHT indicator (Red))									
Ambient temperature	-25~55°C/35~85% (No freezing)									
Environmental illuminance	Sunlight: 10000 lx max. Incandescent light: 3000 lx max. (Sunlight: 5000 lx max. (Sunlight: 5000 lx max. For RS-16G RM-16G)									
Spot size	-				Approx. <i>ϕ</i> 1mm Ap		Approx.	pprox. 1mm×4mm		
Protection category · Material	IP66/PC	IP50/PC	IP66/PC	IP50/PC	IP66/PC					
Accessories	Mounting braket/Screw	Screw	Mounting braket/Screw	Screw		Mounting braket/Screw				

※1 10×10cm white paper. ※2 Scanning distance is Shorten to 16±2mm with Mode selector at MARK mode position.

2 WIRING



3 OTHER PRECAUTIONS

- Wiring must be done after turning off the power.
- Verify voltage fluctuation so that it dose not exceed the rated value.
- When a switching regulator is to be used with a power supply, be sure to ground the Frame Ground Terminal.
- Do not use the R series outdoors, or in a place where extraneous light can enter the light receiving surface directly.
- Do not use the R series in a transient State at power on. (about 100ms)

Must not use this item as safety equipment for the purpose of human body protection.

4 NAME OF PARTS

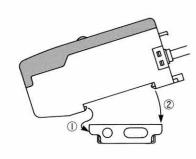
- Be carefull not to install the R series at following lacations, as it may otherwise malfunction.
- · Where a lot of dust, Vapor, or the like is present.
- · Where corrosive gas is produced.
- · Where water, oil or the like flies directly onto the R series.
- · Where strong vibration or shock is caused to the R series.
- Do not run amplifier cable near a high-voltage lines, or power lines or put them together in the same raceway. This warning should be strictly observed to prevent malfunctions caused by inductive interference.

Operation Indicator (Red) Insertion Hole (Reciever) Insertion Hole (Transmitter) Locking Lever Mode Selector Operating Mode Selector Operating Mode Selector Timer Switch

5 INSTALLATION

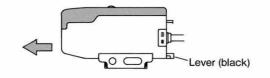
OAmplifier Unit

- Assembling
- ①Latch the front on DIN rail or Bracket.
- 2) Push the tail down until there is a distinct snap.



Removing

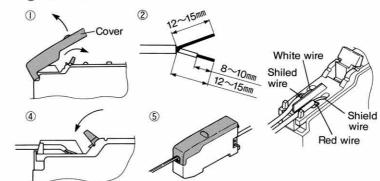
①Pull off the lever (black) of the tail by ○ screwdriver, or Push the amplifier unit toward ← and left the front.



OSensor Head

- ①Open a cover and pull up the Locking Lever.
- 2Process the cable end as shown.

- 3Put the cables into the amplifier Insertion Holes as shown.
- 4 Bring down the Locking Lever.
- 5Put on the cover.

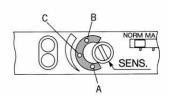


6 SENSITIVITY ADJUSTMENT

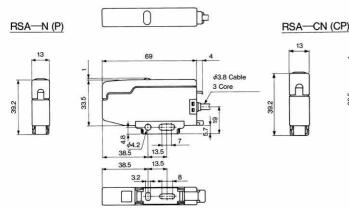
①Set the detectable object at the detection posision and turn the sensitivity adjustor slowly from MIN toward MAX until the Operation Indicator lights up. Call it position A.

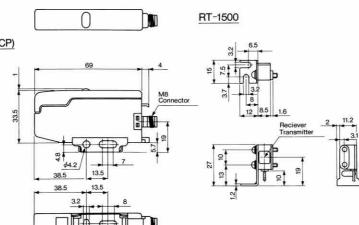
Stability Indicator (Green)

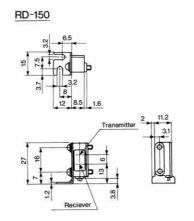
- ②Remove detectable object and turn the sensitivity adjustor from MAX toward MIN position where the Operation Indicator is extinguised. Call it position B.
- ③Point C midway between A and B is the optimum Sensitivity Position.

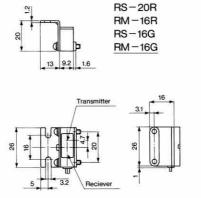


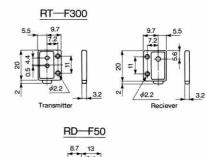
7 DIMENSIONS

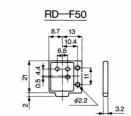












- Specifications and equipment are subject to change without any obligations on the part of manufacture.
- For more information, questions and comments regarding products, please contact us below.



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Unit:mm