

Malfunction	Cause	Troubleshooting	
	Power	Supply rated power.	
Non-operation	Cable incorrect connection or disconnection	Check the wiring.	
	Rated connection failure	Use it within rated sensing distance.	
Non-operation	Pollution by dirt of sensor cover	Remove dirt by soft brush or cloth.	
in sometimes	Cable connection failure	Check the assembled part of the cable.	
Control output is OFF even though there is not a target object.	Out of rated sensing distance	Use it within rated sensing distance.	
	There is an obstacle to cut off the light	Remove the obstacle.	
	emitted between emitter and receiver		
	There is a strong electric wave or noise	Put away the strong electric wave or	
	generator such as motor, electric generator,	noise generator.	
	high voltage line etc.		
LED displays	Control output line is shorten	Check the wiring.	

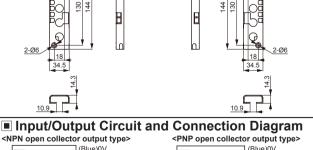
% The above diagram is the state of operation for Light ON, but in case of Dark ON, it is opposite operation against Light ON.

%Picking indicator is operated by connecting picking input line and output line. (If not connecting these, picking indicator is OFF regardless of operation mode.)

Operation Indicator

Item		Emitter			Receiver				
		Indicator			Indicator			Control	
		Green	Green	Picking Indicator	Green	Red	Picking indicator	output	
Power supply		¢	•	-	-	-	-	-	
FREQ. A operation		¢	•	-	-	-	-	-	
FREQ. B operation		¢	¢	-	-	-	-	-	
Stable light ON		-	-	¢	¢	¢	¢	ON	
Flashing function ON		-	-	•	¢	¢	•	ON	
Unstable light ON		-	-	¢	•	¢	¢	ON	
Unstable light OFF		-	-	•	•	•	•	OFF	
Stable light OFF		-	-	•	¢	•	•	OFF	
Over current		-	-				•	OFF	
Displa Ø	ay classification	list		'Pick	ing indica	tor(Red)' f	ation indicator' or stable light	ON level,	
•	Light out				unstable light ON level, unstable light OFF level, and stable light OFF level are for Light ON.				
•	Flashing by 0.3sec.				(In case of overcurrent, control output is OFF				
	Flashing simu	ec. rega	regardless of operation mode.)						

※Be sure to follow cautions written in the instruction manual and the technical descriptions (catalog, homepage).



<Receiver>

<NPN open collector output type> (Blue)0V (Blue)0V 12-24VDC 12-24VDC tter (Brown)+V (Brown)+V Ē (White)P.I. (1) 10 2 (Black)OUT (Brown)+V (Brown)+V Receivel Receiver (Blue)0V (Black)OUT Load (White)P.I. 0 *1 (Blue)0V %1: Picking input(P.I): Contact or transistor is ON, and picking indicator operates 0**↓** ②**↓** 0**↓** 2**↓** 0 ◀____ 14 **@↓** <Contact> <PNP transister> <Contact> <NPN transister

%Picking indicator: When external picking input(P.I) is short-circuited with OUT(Black). it is operated same as ON/OFF status of control output.

for over current	Over load	
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Check the rated load capacity

Cautions during Use

1. Follow instructions in 'Cautions during Use'. Otherwise, It may cause unexpected accidents.

- 2. 12-24VDC power supply should be insulated and limited voltage/current or Class 2, SELV power supply device.
- 3. Use the product, 1 sec after supplying power.
- When using separate power supply for the sensor and load, supply power to sensor first.
- When using separate power soppr for the sensor and load, suppr power to sensor inst.
 When using switching mode power supply to supply the power, ground F.G. terminal and connect a condenser between 0V and F.G. terminal to remove noise.
- 5. When connecting a DC relay or other inductive load, remove surge by using diodes or varistors.
- 6. Wire as short as possible and keep away from high voltage lines or power lines, to prevent surge and inductive noise
- 7. This unit may be used in the following environments.
- Indoors (in the environment condition rated in 'Specifications')
- ②Altitude max. 2.000m
- ③Pollution degree 2④Installation category II

Major Products

 Photoelectric Sensors Temperature Controllers
 Fiber Optic Sensors Temperature/Humidity Transduce
 Door Siensors Sensors Sensors Controllers
 Area Sensors Timers
 Proximity Sensors Panel Meters
 Pressure Sensors Tachometer/Pulse (Rate) Meters
 Retary Encoders Display Units
 Connector/Sockets Sensor Controllers
 Switching Mode Power Supplies
 Control Switches/Lamps/Buzzers
 Wo Termina Blocks & Cables Switching Mode Power Supplies Control Switches/Lamps/Buzzers I// Terminal Blocks & Cables Stepper Motor/Drivers/Molion Controllers Graphic/Logic Panels Field Network Devices Laser Marking System (Fiber, Coz, Nd: YAG) Laser Welding/Cutting System E-

Autonics Corporation

http://www.auto

HEADQUARTER

- 18, Banson ero 513 beon-gil, Haeundae-gu, Busan, South Korea, 48002 TEL: 82-51-519-3232 E-mail: sales@autonics.com

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