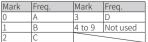


O Mutual interference prevention

When installing over 2 sensors closely, set the each frequency by the switch for frequency setting to prevent malfunction from mutual interference.



© Optical axis misalignment alarm (low light intensity alarm) Emitted light level can be reduced due to warped product or long-term usage. When nothing is detected during operation, this function checks received light level and outputs alarm at 'OFF level+approx. 3%' of received light level. Emitted light level is returned to the normal level with teaching.

○ Emitter damage alarm

Outputs alarm when emitter is damaged due to the long-term usage of emitter elements or strong impact to the product.

○ Self-diagnosis function

Mapping sensor is a block to self-diagnose periodically in normal operation. If error occurs, status indicator displays in which part error occurs. (Refer to '**a Operation Indicator**'.) Malfunction of synchronous line: If there is malfunction of synchronous line, it displays error and outputs signal. ***The above specifications are subject to change and some models may be discontinued** without parts.

without notice. *Be sure to follow cautions written in the instruction manual and the technical descriptions (catalog, homepage).

lights ON. Fix them at this place by tightening screws (tightening torque: 0.39 to 0.49 N·m). ⑤Pressing low key for over 3 sec completes teaching and operates the device in RUN mode.

place where output/stability indicators flash (It displays

coincidence of optical axis of all CHs.) and status indicator

(blue) has same function.)

×If optical axis are not coincident, yellow LED of the status indicator flashes at 0.5 sec interval, and output indicator (red, slave) and stable indicator (green, master) light off. Please readjust the position of Master and Slave and execute teaching again. *Avoid using the unit in the place where the sensor is exposed directly to the fluorescent light

Height of each

ide line shoul

be same

with high speed start or high frequency.

CC-LINK Baud Rate and Address Setting

For CC-LINK setting, communication speed of PLC Master and BWM should be the same
Address is available from 1 to 64 and it should not be duplicated.

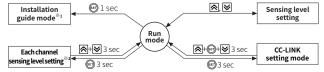
When changing CC-LINK setting, turn OFF the power of this unit and re-supply it.

Press 🙈 + 🗐 + 💆 key in the run mode and enter to the CC-LINK setting mode to set the version and the number of occupied station.

The number of occupied station: status display 5, I (station 1), 2 (station 2) Version: status display [, I (version 1.1), 2 (version 2.0)

Setting		Setting range
		0: 156kbps, 1: 625kbps, 2: 2.5Mbps
DRAIE		3: 5Mbps, 4: 10Mbps, 5 to F: not used
×10, ×		0: master, 1 to 64: settable address, 65 to 99: not used
1		E.g.) To set 12 as address, set ×10 to 1 and ×1 to 2.

Mode Switching Method



※1: Entering to the installation guide mode and pressing ⊕ key for 3 seconds starts teaching, and the product returns to the run mode after teaching completed. ※2: When the status display is d, select channel to change using 🗟, 🖾 key and press 🚱 key

When number of channel is flashing, set sensing level using 😹 🖾 key.

• [master] communication status maleator			
Item	Comm. status indicator		
Connected status	Simultaneous ON (green, red LED)		
Pre connection status	ON (green LED)		
Error	ON (red LED)		

Troubleshooting

	U				
Malfunction	Cause	Troubleshooting			
Not operate	Power	Supply the rated power.			
Not operate	Cable cut, disconnection	Check the wiring.			
Not operate in sometimes	Sensor cover pollution by unit	Remove dirt by soft brush or cloth and set sensitivity again.			
in sometimes	Connector connection failure	Check the connection area of connector.			
	Initial sensitivity setting goes wrong	Remove the cause and set sensitivity again.			
without a target	There is a strong electric wave or noise generator.	Put away motor, electric generator, or high voltage line.			

Cautions during Use

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

2. 24VDC power supply should be insulated and limited voltage/current or Class 2, SELV power

2.2400 bowers.
3. Use the product, 1 sec after supplying power. When using separate power supply for the sensor and load, supply power to sensor first.
4. 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

- 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. ① Indoors (in the environment condition rated in 'Specifications') ② Altitude max. 2,000m

③ Pollution degree 2

Installation category II

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