

Laser Alignment Tool for Light Curtain
SF-LAT-□

MJE-SFLAT No.0070-43V

Thank you very much for purchasing Panasonic products. Please read this Instruction Manual carefully and thoroughly for the correct and optimum use of this product. Kindly keep this manual in a convenient place for quick reference.

WARNING

- This product is classified as a Class 2 laser product by IEC / JIS / GB standard.
- Do not see the laser beam directly. In addition, do not see a mirror reflection of the laser beam.
- Never disassemble, repair or modify this product.
- In case of control or adjustment using procedures other than those specified in this instruction manual, hazardous laser radiation exposure can result.

1 OUTLINE

- This product is a tool to align the beam channels of the Panasonic Industrial Devices SUNX light curtain. It enables rough adjustment of beam channels before the wiring of the light curtain (before the supply of power).
- This product can be snapped onto the light curtain.
- Utilizes two LR6 dry cell batteries as a power source. (Optional)

2 BEFORE USING A LASER PRODUCT

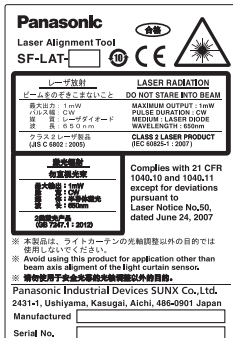
- In order to prevent the accident by laser product and protect the users, JIS C 6802-2005 "Safety of laser products" was established based on the regulation of IEC (International electrotechnical Commission). This regulation classifies laser products according to the level of hazard, and provides the safety measures for respective classes. This products are classified as "Class 2 laser products" according to IEC 60825-1-2007 (JIS C 6802-2005) "Safety of laser products".
- This product complies with 21 CFR 1040.10 and 1040.11 based on Laser Notice No. 50, dated June 24, 2007, issued by CDRH (Center for Devices and Radiological Health) under the FDA (Food and Drug Administration). For details, refer to the Laser Notice No. 50.

- **Laser hazardous class**
Classification according to IEC 60825-1-2007 (JIS C 6802-2005)

Classification	Description
Class 2	Visible beam, low power. Blink response of eye affords protection.

- **Label**
- Following labels are affixed on this product in accordance with the requirements of IEC standard and FDA regulation.

<Warning and classification label>



<Caution label>



3 SPECIFICATIONS

Item	Model No.	SF-LAT-2B	SF-LAT-2N	SF-LAT-4BG
Applicable sensor		SF2B series	SF4B<V2> series	SF4B-G<V2> series
Supply voltage		3V (LR6 dry cell battery: 2 pcs.)(Note1)		
Battery lifetime		Approx. 30 hours of continuous operation (LR6 battery, at +25°C ambient temperature)		
Light source		Red semiconductor laser: Class 2 (IEC / JIS / GB) (Note2) (Max. output: 1mW, Peak emission wavelength: 650nm)		
Spot diameter		Approx. 10mm (at 5m distance)		
Ambient temperature		0 to +40°C (no dew condensation), Storage: 0 to +55°C		
Ambient humidity		35 to 85% RH, Storage: 35 to 85% RH		
Material		Enclosure: ABS, Mounting part: Aluminum		
Weight		Approx. 150g (without batteries)		

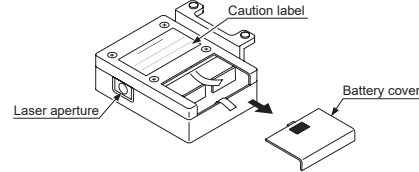
Note1 :LR6 dry cell batteries are not provided with the product. Please purchase them separately.

Note2:As for FDA regulation, the product complies with 21 CFR 1040.10 and 1040.11 based on Laser Notice No. 50, dated June 24, 2007, issued by CDRH under the FDA.

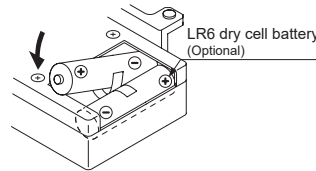
4 BATTERY INSTALLATION

Make sure to turn OFF the power of this product before inserting or replacing batteries.

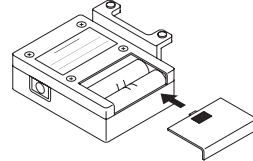
1. Slide the battery cover on the side of the main body to remove it.



2. Insert the batteries on the Plastic sheets in the battery box, while confirming the "+" and "-" directions.

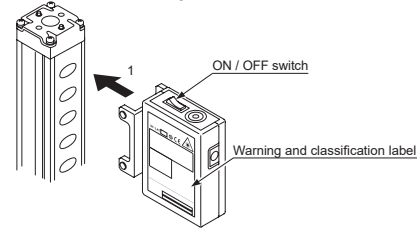


3. Slide the battery cover, back onto the main body.



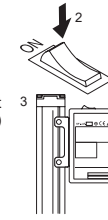
5 HOW TO USE

1. Snap this product, with its ON / OFF switch facing upwards, on the side grooves of the emitter of the light curtain.

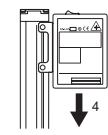


2. Turn the power ON.

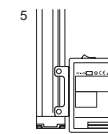
3. Adjust the emitter as the laser beam strikes the topmost beam channel of the receiver of the light curtain. (Note 1)



4. Slide this product downward.

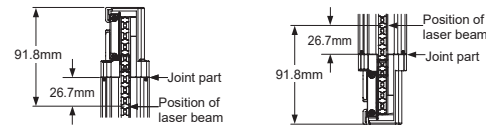


5. Adjust the emitter as the laser beam strikes the bottom-most beam channel of the receiver. (Note 1) When attempting to align, move only the bottom part of the emitter left or right to align the beam channels, while fixing the position of the top part of the emitter. (If turned around, the beam at the upper part will be misaligned.)



6. Turn the power OFF and remove this product from the emitter.
7. Snap this product on the receiver of the light curtain and carry out steps 2 to 6 (as required).
8. Turn the power ON and confirm that the light curtain works properly, by using actual sensing objects to interrupt each beam channel. (Note 2)

Notes: 1) Mount it to the SF4B-□G<V2> and slide the SF-LAT-4GB up and down and the SF-LAT-4GB will stop in the middle of the product. Then, adjust to expose a position in flowing diagram (third hole from joint part) to the laser beam.



- 2) Refer to light curtain instruction manuals for adjusting method.

The product is designed for use in rough adjustment of beam channels. For more precise adjustment of beam channels, supply power to the light curtain and make fine adjustment so that the indicator on the light curtain shows that the incident light is stable. For the method of adjusting beam channels, refer to the instruction manual of the light curtain.

6 CAUTIONS

- This product has been developed / produced for industrial use only.
- Always look at the laser beams from behind the laser alignment tool.
- Usage of protective goggles is recommended during the operation of this product.
- Use two LR6 dry cell batteries. Note that LR6 batteries (2) are not provided with the product. Please purchase them separately.
- Turn OFF the power when not using the product. Furthermore, if the product is not going to be used for a long time, take the batteries out.
- In case of disposal of this product, make sure to remove the batteries.
- Do not use this products in any other manner other than the purpose or the operation method described in this instruction manual.

7 COMPLIANT STANDARDS / REGULATIONS

- This product complies with the following standards / regulations.

<EU Directive>
EMC Directive



Panasonic Corporation

Panasonic Industrial Devices SUNX Co., Ltd.
<https://panasonic.net/id/pidsx/global>

Please visit our website for inquiries and about our sales network.