# Digital Fiber Amplifier D2RF/D2GF Series

D2RF-T D2GF-T D2RF-2T D2GF-2T D2RF-TC 4 D2RF-2TC 3/4 D2GF-TC□4
D2GF-2TC□3/4

## Instruction Manual

Carefully read and understand the safety precautions before operation.

The important information is provided to protect your health and property.

Do not apply any other installing or operating procedure other than that described in this manual.

#### Safety Precautions



- ↑ CAUTION OIL is dangerous to wire or attach/remove the conne with the power on. Make sure to turn off the pobefore operation.
  - before operation.

    Make sure to use the product with the protective cover attached and closed.

    Installing in the following places may result in medimetric.

  - mulfunction:

    1. A dusty or steamy place
    2. A place generating corrosive gas
    3. A place directly receiving scattering water or oil.
    4. A place suffered from heavy vibration or impact.
    The product is not designed for outdoor use.
    Do not use the sensor in transition state after power on
  - (approx. 100 ms).

    Do not wire with the high voltage cable or the power line.

    Failure to do this will cause malfunction by induction or
  - damage.

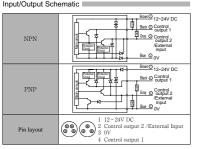
    The sensor performance or digital display values may depend on the individual units or the condition of detected product.

  - Do not use the product in water.
  - Do not use the product in water.
    Do not disassemble, repair, or convert the product.
    Failure to do this may cause failure, fire, or ele shock.

    Operate within the rated range.

This product cannot be used as a safety device to protect human body.

#### Input/Output Schematic





# Each Part Setting Amplifier

### ■Attaching and Removing to/from DIN rail

Attachment of Amplifier Unit
Hook the claw on the connecting side of fibt
to the DIN rail. Then press down the hook
locks.

Removal of Amplifier Unit Pushing the unit to the direction of ①, hold up the connecting side of fiber cable and remove the unit.

■How to connect the fiber cables

Open fiber lock lever.
 Insert fiber into holes to stop.

With Coaxial reflection fiber, set single core fiber or Then set Multi wick fiber to the receiver

## ■How to use Fine fiber

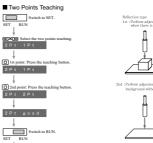
①Turn adapter cap anticlockwise completely, then appropriately insert the fiber. Be locked by turning adapter cap clockwise ②Cut the excess fiber with fiber cutter.

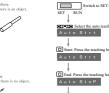


# Adjustment === Setting Maximum Sensitivity Switch to SET. 1Pt good Switch to RUN









■ Auto Teaching

SET STATE

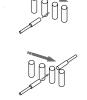
■Zone Teaching Switch to SET.

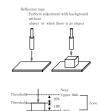


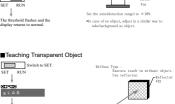




Dimensional drawing









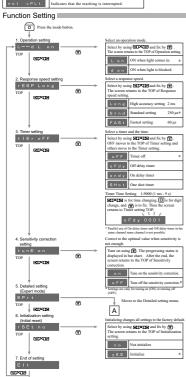


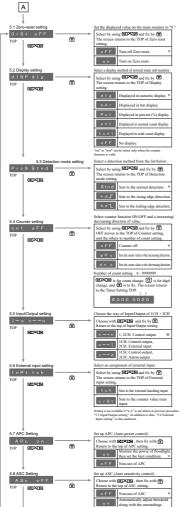
■ Manual Adjustment
Pressing the UP/DOWN button in the RUN mode flashes the threshold. It indicates that adj is possible. Adjust to any value using the UP/DOWN button.

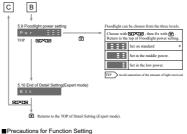
② When using zone teaching Setting Lower Limit (Far) Setting Upper Limit (Near) FAr nEAr atically returns to the normal display 5 se

# ■ Error Display in Teaching An error message is displayed in the ev









 $\triangle$ 1 Threshold 2 Operation setting 3 Timer setting and Timer Switching Channel

#### cH 2 → 2000 2200

Press on Run mode, target channel blinks and switch to it.

■ Returning to Normal Display with One Button

# ■Key Lock

Hold down the EDPED buttons for 2 seconds or more simultaneous in the same way to cancel as well.

In locking When cancelled U L o c 300

### ■ Change threshold of Alarm output

With Alarm setting (Alarm output need to be fixed at 5.5 Input/Out threshold (Output timing)can be changed. \*Changes are available on Transparent teaching, ASC setting On

ing and holding

On RUN mode, change to CH2 by pressing:
After CH 2 blinks, screen will be changed.
Setting changes are available with



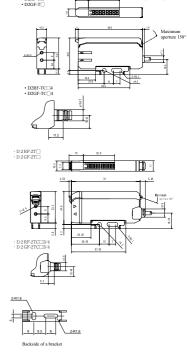
— Output when the amount of light received of standar background which set by ASC setting is below threshold.
\* when 5.2 indication setting is fixed with %, the am received and threshold will be shown in %.

## SAM Circuit (ASC = Automatic Sensitivity Control)

Threshold value will be automatically reset as the sensor continuously monitors return Sudden change of returned light, like cleaning of lens, will trigger reset of the best thre computed in the circuit (SAM circuit).

# ■APC (Auto Power Control)

Emission LED power is continuously kept at same level compensating damping of LED in the long run of working time. For this function detection level is kept same as preset level.





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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