

| OPTEX FA CO., LTD. |  |  |
| :---: | :---: | :---: |
| - Thank you for purchasing this Digital Fiber Amplifier D4RF. <br> - Before using this product, please read this manual carefully to ensure proper use. <br> - Read this manual thoroughly, and then keep this manual at hand so that it can be used whenever necessary. |  |  |
| Safety Precautions |  |  |
| Safety precautions for ensuring safe operation of this product are displayed as follows with the following symbols. <br> Precautions listed here describe important information about safety. Make sure to follow them accordingly. |  |  |
| Safety Symbols |  |  |
| $\triangle$ Warnin | ING | Indicates that any improper operation or handling may result in moderate or minor injury, and in rare cases, serious injury or death. Also indicates a risk of serious property damage. |
| $\triangle$ Caution |  | Indicates that any improper operation or handling may result in minor injury or property damage. |
| $\triangle$ WARNING |  |  |
| (1) ${ }_{\text {de }}^{\text {do }}$ | Do not disassemble, repair, modify, deform under pressure, or incinerate this product. Doing so may cause injury or fire. |  |
| 全 $\underbrace{\text { a }}$ | This product is not explosion-proof and should not be used around flammable or explosive gases or liquids. Doing so may cause ignition resulting in an explosion or fire. |  |
|  | Do not use air dusters or any spray that uses flammable gas around the product or on the inside of the product. Doing so may cause ignition resulting in an explosion or fire. |  |
|  | Do not install this product in any of the following locations. Doing so maycause a fire, damage, or a maltunction.1. Locations where oust, salt, iron powders, or vapor (steam) is present.2. Locations subjected to corrosive gases or flammable gases.3. Locations where oi or chemical splashes may occur.4. Locations where heavy vibarations or impacts may occur.5. Locations where the ambient temperature exceeds the rated range.6. Locations subject to rapid temperature changes (or where condensa-tion occurs).7. Locations with strong electric or magnetic fields.8. Outdoor locations or locations subject to direct sunlight. |  |
|  | This is a class A product. In a domestic environment this product may cause radio interference, in which case the user may be required to take adequate measures. |  |
|  | This product is not intended for use with nuclear power, railways, aviation, vehicles, medical equipment, food-handling equipment, or any application where particular safety measures are required. Absolutely do not use this product for any of these fields. |  |
|  | This product cannot be used in applications that directly or indirectly detect human bodies for the purpose of ensuring satety. Do not use this product as a detection device for protecting the human body. |  |
|  | What to do in the event of a malfunction such as smoke being emitted from the product <br> If you detect any malfunction including emission of smoke, abnormal smells or sounds, or the product enclosure becoming very hot, immediately stop operating the product and turn off the sensor power. Failure to do so may cause a fire. Repairing the product is dangerous and should in no way be performed by the customer. Contact an OPTEX FA sales representative for repairs. |  |

Ramco Innovations www.optex-ramco.com (800) 280-6933 nsales@ramcoi.com

## 3. I/O Circuit Diagram

NPN setting




## 5. Part Names



$* 2$ When $1 / 0$ polariti is set to Push-pull or PNP and the sensor is connected with minus com-
mon circuits.

## 4. Installation

Installing the amplifier

```
(1) Place the groove on the side of
toth Din-rail
(2) Preses down until the hook locks.
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Removing the amplifier
(1) Pust the amplifie toward the side of fiber unit holes.


Mounting the fiber unit
(1) Slide the lock lever down. (2) Isert the fiber wires in the holes to the end.

(3) Raise the locklever the stasid


## 6. Menu List



1. "N.O./N.C." is displayed when "Edge" is selected in "D2 Threshold mode" or when " 1 -point Zone" or "2-point Zone" is selected during teaching.

4: Displayed when "Edge height" is selected in "D2 Threshold mode".
On or "On" can be s" "O selected in "D2 Threshold mode".
isple when"Stard" "D2 Threshold mode".
2. Specifications


- Support for the China RoHS directive
(10) or the the Contron the of Pupportution Caused the Chy byelectronic Information Productss), see
he following website.
ttps:///www.optex-a.com/rohs_cn/


## This device complies with part 15 of the FCC Rules <br> peration is subject to the following two conditions: (1) This device may not cause harmful in- erference, and (2) this device must acceptany interterencee received. induduing interference at may cause undesired operation. <br>   lerference to radio communications. Operation of this equipment in a residential area is likely to cause harmul interference in which case the user will be required to correct the

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