

Safety and Regulatory Information

This Safety and Regulatory Information document, together with any other documentation you have received with the Product, will help you in using the Product safely and efficiently. Therefore, follow the instructions provided here, in the User Manual and in any other provided Product documentation. In these safety instructions, the word "Product" refers to all merchandise sold and distributed by Micro Photon Devices Srl, including instruments and all accessories.

Intended use

The Product is intended for use in a laboratory environment only and is not designed or recommended for safety-critical or life-sustaining applications, where failure could result in injury or death. Use the Product solely for its designated purpose and ensure that all operating conditions and performance limits stated in the data sheet are observed.



Do not operate the Product in a manner not specified in the user documentation. Product misuse can result in a hazard. You can compromise the safety protection built into the Product if the Product is damaged in any way. If the Product is damaged, return it to Micro Photon Devices Srl for repair.

The  symbol on an instrument means caution, risk of danger. The user should refer to the operating instructions located in the user documentation in all cases where the symbol is marked on the instrument.

Safety Instructions

Products from Micro Photon Devices Srl are manufactured according to the EN 61010-1 safety standards. To use the Products safely, follow the instructions provided here and in the Product documentation. Keep the Product documentation nearby and offer it to other users. Use the Product only for its intended use and within its performance limits. Intended use and limits are described in the Product documentation such as the data sheet, manuals and this printed "Safety Instructions".

If you are unsure about the appropriate use, contact Micro Photon Devices customer service at info@micro-photon-devices.com. Using the Product requires qualified or specially trained personnel. These users must have a working knowledge of at least one of the languages in which the user interfaces and the product documentation are available.

Some versions of the Product include a sensor with a glass optical window or are covered by a glass lens. While the Product has passed pressure tests according to applicable regulations, impact against hard surfaces may still cause the glass to break. Use caution when handling the Product to prevent accidental damage.

Never open the case of the Product. Only service personnel of Micro Photon Devices Srl are allowed to repair the Product. If any part of the Product is damaged or broken, stop using the Product.

Observe all terminal ratings. To avoid fire or shock hazard, observe all ratings and markings on the Product. Consult the Product manual for further ratings information before making connections to the Product. Terminal ratings can be either reported on the Product or in User Manual. When, for space reason, it is not possible to report full ratings in a clear manner directly on the Product, the Δ symbol is placed next to the relevant terminals, instructing the user to read the relevant Sections of the manual. These sections dealing with terminal ratings are marked with the symbol Δ . Do not apply a potential to any terminal, including the common terminal, that exceeds the maximum rating of the terminal. Ensure that connections with information technology equipment, e.g., PCs or other industrial computers, comply with the IEC 60950-1 / EN 60950-1 or IEC 61010-1 / EN 61010-1 standards that apply in each case.

Choosing the operating site

Only use the Product indoors. Do not power on or operate the Product in its shipping packaging. The Product Ingress Protection code is 20 (IP20), since its enclosure offers no protection from water and it is protected against access to hazardous parts (e.g., electrical conductors) of fingers and the ingress of solid foreign objects with a diameter ≥ 12.5 mm. Water that enters can electrically connect the casing with live parts, which can lead to electric shock, serious personal injury, or death if you touch the casing.

Keep a minimum distance of 10 cm between any fan openings of the Product (if present) and any object in the vicinity and do not place the Product next to heat-generating equipment such as radiators or other instruments or appliances.

Use the Product as specified in Ambient Operating Conditions. It is suitable for pollution degree 2 environments where nonconductive contamination can occur and an overvoltage category of level II. Upon receiving the Product, consider that it may have been stored in different ambient conditions. Allow enough time before plugging in the Product, to reach the Ambient Operating Conditions. Never use the product under conditions in which condensation has formed or can form in or on the product, e.g., if the product has been moved from a cold to a warm environment. Penetration by water increases the risk of electric shock.

Ambient Operating Conditions

- For indoor use only.
- For altitudes up to 2000 m above sea level.
- Temperature range is from 5 °C to 40 °C.
- Maximum relative humidity: 80 %, for temperatures up to 31 °C, decreasing linearly to 50 % relative humidity at 40 °C.
- Main power supply: Voltage fluctuations not to exceed +/- 10 % of the nominal value.
- Additionally, check the specific Product user manual since the ambient operating conditions may differ to guarantee the stated specific Product performance.

Storage Conditions

When not in use, store the Product in a dry place not exposed to direct sun light, with temperature in the range -25° to 65°C, non-condensing.

Connecting to the power

The product is an overvoltage category II product. Connect the Product to a fixed installation used to supply energy-consuming equipment such as household appliances and similar loads. Keep in mind that electrically powered products have risks, such as electric shock, fire, personal injury or even death.

Take the following measures for your safety:

- Use only the provided power supply. It complies with country-specific safety requirements. In case you need a different plug type, contact Micro Photon Devices Srl customer service. Do not try to plug the power supply into the wrong socket type.
- Before switching on the Product, ensure that the voltage and frequency indicated on the Product match the available power source.
- Ensure that you can disconnect the Product from the power source at any time. Pull the power plug to disconnect the Product. The power plug must be easily accessible. If the Product is integrated into a system that does not meet these requirements, provide an easily accessible circuit breaker at the system level.
- Never use the Product if the power cable is damaged. Check the power cables on a regular basis to ensure that they are in proper operating condition.
- Never use the Product if the enclosure is damaged.
- Check on the User Manual if the Product is equipped with a power switch, which is marked with the | / ○ symbols. If the Product is equipped with a power switch, always set the switch to OFF (○ position) before connecting or disconnecting the Product from the power source.
- For the specific power ON and power OFF procedure refer to the User Manual.
- For minimizing energy consumption and increasing Product lifespan, therefore reducing worldwide emissions of Green House Gases, it is recommended to unplug the power supply whenever the Product is not in use).

Maintaining

The Product does not need any specific maintenance and does not include any user-serviceable part. To remove dust or dirt follow the instructions in the paragraph Cleaning the Product.

Cleaning the Product

Prior to cleaning the Product, disconnect it completely from the power supply. Use a dry, lint-free cloth to clean the Product. When cleaning, keep in mind that the casing is not waterproof. Do not use liquid cleaning agents. Additionally, for optic fibers care, please follow these instructions:

1. Avoid any unnecessary force that may cause the fiber to bend sharply and break.
2. Bare fiber should not support the weight of the connector.
3. Cap end face when connector is not in use.
4. Before making a connection, inspect the end face of the fiber for dust or imperfections with a fiber microscope.
5. Clean any dirt from the end face with a lint-free wipe.

for optical windows care, please follow these instructions:

1. Dust and other loose contaminants usually should be blown off before any other cleaning technique is employed. A can of inert dusting gas or a blower bulb is needed for this method.
2. Do not use your mouth to blow on the surface because it is likely that droplets of saliva will be deposited on the optical surface.
3. If blowing off the surface of the optic is not sufficient, other cleaning methods and materials are acceptable. When cleaning an optic, always use clean wipes and optical grade solvents to prevent damage from contaminants. Wipes should always be moist with an acceptable solvent and never used dry. Acceptable wipes are pure cotton, lens tissue.
4. Typical solvents employed during cleaning are distilled water and isopropyl alcohol. Use all solvents with caution since most are poisonous, flammable, or both. Read product data sheets and MSDS sheets carefully before using any solvents.
5. If repeated cleaning is required it is recommended the use of distilled water to be used more frequently than the cleaning fluid and to apply the smallest amount of pressure when wiping the surface with lens tissue paper.

Disposal

A product that is labeled as follows cannot be disposed of in normal household waste after it has come to the end of its service life. Waste electrical and electronic equipment must not be disposed of with unsorted municipal waste, but must be collected separately, according to your local legislation.

