



CMOS Multi-Function Analog Laser Sensor IL Series

Instruction Manual

Read this manual before using the product in order to achieve maximum performance. Keep this manual in a safe place after reading it so that it can be used at any time. For details of functions, refer to the IL Series User's Manual. The IL Series User's Manual can be downloaded from the KEYENCE web site: <http://www.keyence.com/>

■ Symbols

The following symbols alert you to important messages. Be sure to read these messages carefully.

	It indicates a hazardous situation which, if not avoided, will result in death or serious injury.
	It indicates a hazardous situation which, if not avoided, could result in death or serious injury.
	It indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
	It indicates a situation which, if not avoided, could result in product damage as well as property damage.
	It indicates cautions and instructions that must be followed during operation.
	It indicates additional information on proper operation.
	It indicates tips for better understanding or useful information.

Safety Information for IL series

	<ul style="list-style-type: none"> This product is not intended to detect the adjacent. Do not use this product for the purpose to protect a human body or a part of human body. This product is not intended for use as explosion-proof product. Do not use this product in a hazardous location and/or potentially explosive atmosphere.
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Safety Precautions on Laser Product

- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- Follow the instructions explained in this manual. Otherwise, injury to the human body, eyes, and skin may occur.
- Do not disassemble this product. Laser emission from this product is not automatically stopped when it is disassembled.
- Precautions on class 2 laser products
 - Do not stare into the direct or specularly reflected beam.
 - Do not direct the beam at other people or into areas where other people are working with the laser beam might be present.
 - Be careful of the path of the laser beam.
 - When the laser beam is reflected or diffused from a mirror surface, and the reflection may cause danger, treat this reflection using a surrounding shield.
 - Shield the products so that the path of the laser beam is not as the same height as that of human eye.

Model		Description	
Model		IL-000	IL-000P/IL-000R/IL-000S/IL-000T
Description		IL-000	IL-000
IL-000P/IL-000R/IL-000S/IL-000T	Laser Class	Class 1 Laser Product	Class 2 Laser Product
IL-000P/IL-000R/IL-000S/IL-000T	Output	200mW	500mW
IL-000P/IL-000R/IL-000S/IL-000T	Laser Class	Class 1 Laser Product	Class 2 Laser Product
IL-000P/IL-000R/IL-000S/IL-000T	Output	200mW	500mW

* The classification is determined and based on IEC60825-1 following the requirement of Laser Notice No.100 of 1994 (JIS S4901).

Safety measures for the laser

■ Laser radiation emission indicator

This laser radiation emission indicator is to distinguish emission. It flashes when laser emission is stopped.



■ Laser emission stop input

When laser emission stop input is set as an external input, laser emission can be stopped by setting on the external input signal regardless of the 20 ms. Laser emission stops stopped while the external input is on. The laser is emitted within 20 ms after the external input is turned off. For the connection of external inputs and output signals during laser emission stop input, refer to "Chapter 4.2.11 External input" of the User's Manual.

■ Warning up

Wait about 20 minutes after turning on the power. This must be completed immediately after the power turns on, so that display value may gradually rise.

■ Laser warning labels

The following diagrams show the type and position of laser warning labels of the IL Series.

■ IL-000P/IL-000R/IL-000S/IL-000T



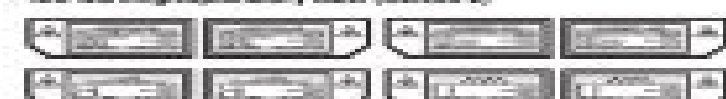
■ IEC warning/explanatory label (CLASS 2)



■ IL-0000



■ IEC warning/explanatory label (CLASS 2)



The IEC warning/explanatory labels are only included with Class 2 laser products. Use the suitable IEC warning/explanatory label included in the package of the product according to the country (region) where the product is used. In this case, it can be affixed to the IEC warning/explanatory label, which has already been affixed to this product.

Keyence Il 1000 User Manual

F Rizvi



Keyence IL 1000 User Manual:

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