

Safety Light Curtain GL-R Series Instruction Manual



General information about functions and use of the GL-R series is also described in the "GL-R Series User's Manual", and the configuration software of "Safety Device Configuration" is added to use all functions of the GL-R. In order to acquire the "GL-R Series User's Manual" and "Safety Device Configuration", download them from the KEYENCE website or call the nearest KEYENCE office.
KEYENCE website: <http://www.keyence.com>

This instruction manual describes handling, operation, and precautionary information for the GL-R Series Safety Light Curtain (GL-R). Read this instruction manual thoroughly before operating the GL-R in order to understand the device features, and keep this instruction manual readily available for reference. Ensure that the end-user of this product receives this manual.
In this instruction manual, "GL-RP" represents the finger protection type with the detection capability of $\phi 14$ mm, "GL-RM" represents the hand protection type with the detection capability of $\phi 25$ mm, "GL-RL" represents the body protection type with the detection capability of $\phi 40$ mm and "GL-R" represents all of the models including the GL-RP, GL-RM and GL-RL. This manual is the original instruction manual.

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 serious or fatal injury.
	It indicates a situation which, if not avoided, could result in product damage as well as property damage.
	It indicates additional information or proper operation.
	It indicates tips for better understanding or useful information.
	It indicates reference pages in this or another manual.

Safety Information for GL-R Series

■ General precautions

- You must verify that the GL-R is operating correctly in terms of functionality and performance before the start of machine and the operation of the GL-R.
- KEYENCE does not guarantee the function or performance of the GL-R if it is used in a manner that differs from the GL-R specifications contained in this user's manual or if the GL-R is modified by the customer.
- When using the GL-R to protect machine operators against a hazard or hazardous zone or using the GL-R as a safety component for any purpose, always follow the applicable requirements of the laws, rules, regulations and standards in the country or region where the GL-R is used. For such regulations, you should directly contact the regulatory agency responsible for occupational safety and health in your country or region.
- Depending on the type of machine on which the GL-R is to be installed, there may be special safety regulations related to the use, installation, maintenance, and operation of the safety component. In such a case, you must fulfill such safety regulations. The responsible personnel must install the GL-R in strict compliance with such safety regulations.
- The responsible personnel must do the training to the assigned personnel for the correct use, installation, maintenance, and operation of the GL-R. "Machine operators" refers to personnel who have received appropriate training from the responsible personnel and are expected to operate the machine correctly.
- Machine operators must have specialized training for the GL-R, and they must understand and fulfill the safety regulations in the country or region in which they are using the GL-R.
- When the GL-R fails to operate, machine operators must immediately stop the use of the machine and the GL-R and report this fact to the responsible personnel.
- The GL-R is designed with the assumption that it would be correctly installed in accordance with the installation procedures described in this user's manual and correctly operated according to the instructions in this user's manual. You must perform an appropriate installation of the GL-R after performing a sufficient risk assessment for the target machine.
- Be sure to absolutely confirm that there is nobody in the hazardous zone before you remove the GL-R from the machine for replacement or disposal.
- When disposing the GL-R, always follow the applicable requirements of the laws, rules, regulations and standards in the country or region where the GL-R is used.
- The GL-R should be processed as an industrial waste product when being disposed.

■ Precaution on use

● Operators

- In order to operate the GL-R correctly, the responsible personnel and machine operators must fulfill all of the procedures described in this user's manual.
- No person other than the responsible personnel and machine operators should be allowed to install or test the GL-R.
- When performing electrical wiring, always fulfill the electrical standards and regulations for the country or region in which the GL-R is used.

● Environment of use

- Do not use the GL-R in an environment (temperature, humidity, interfering light, etc.) that does not conform to the specifications contained in this user's manual.
- Be sure to confirm that the GL-R keeps correct operation when electromagnetic radiation is generated by wireless devices. (If you use wireless devices such as cellular phones or transmitters in the vicinity of the GL-R.)
- The GL-R is not designed to be explosion-proof. Never use it in the presence of flammability of explosive gases or elements.
- Be sure to confirm no deterioration in product quality if you use the GL-R in the presence of substances, such as heavy metals, particulate matter, or corrosive chemical agents.
- Do not install the GL-R in areas where the GL-R is exposed to intense interference light from an infrared projector and direct light from an incandescent-type fluorescent lamp (rapid-start type lamp, high-pressure sodium-type lamp, etc.).
- Be sure to absolutely confirm that there is nobody in the hazardous zone before the shutdown is released (i.e., the machine system restarts) by the shutdown reset mechanism. Failure to follow this warning results in significant harm to the machine operators, including serious injury or death.
- Be sure to absolutely confirm that there is nobody in the hazardous zone before the standby function is activated. Failure to follow this warning results in significant harm to the machine operators, including serious injury or death.

● Target machine

- The GL-R has not undergone the model certification examination in accordance with Article 64-2 of the Japanese Industrial Safety and Health Law. The GL-R, therefore, cannot be used in Japan as a "Safety Device for Press and Shearing machines" as established in Article 62 of that law.
- The machine on which the GL-R is to be installed must be susceptible to an emergency stop at all operating points during its operation cycle. Do not use the GL-R for machines with programmable stop.
- Do not use the GL-R for power presses equipped with full-revolution clutches.
- The GL-R cannot be used as a PSD because it does not fulfill the requirements of OSHA 1910.212(f), when OSHA is not possible if the receiver has a different beam axis spacing (detection capability) from that of the transmitter. You must verify that the beam axis spacing (detection capability) is the same between the transmitter and the receiver when installing the GL-R.
- The GL-R is designed to protect people or objects from going into/reapproaching detection zone against machine's hazard or hazardous zone. It cannot provide protection against objects or materials that are expelled from the machine's hazard or hazardous zone against established additional safety measures such as installing safeguards when there is the possibility of such projection.

● Installation

- The GL-R must be installed only after ensuring the minimum safety distance between the GL-R and the hazardous zone or hazard as established by the applicable regulations in the country or region in which the GL-R is used. (e.g., the ISO 13855 (ISO 13855) in EU countries.)
- Choose locations for the installation of the GL-R (transmitters and receivers) so that they are not subject to the effects of light reflected from glossy surfaces in the area.
- Correct operation is not possible if the receiver has a different beam axis spacing (detection capability) from that of the transmitter. You must verify that the beam axis spacing (detection capability) is the same between the transmitter and the receiver when installing the GL-R.
- The GL-R must be installed so that the machine operator is able to get into or approach the hazardous zone or hazard only by passing through the detection zone of the GL-R. Strictly avoid installation that allows the machine operator or a part of the machine operator's body to go into or approach the hazardous zone or hazard without passing through the protective zone of the GL-R or to remain in position between the protective zone of the GL-R and the hazardous zone or hazard. In a case where you install the GL-R units in each corner of the machine, once check the installation thoroughly whether you follow this warning, especially after installation and maintenance.
- You must always perform the pre-check tests after installing the GL-R in accordance with the pre-check test procedures, such as being specified in this user's manual, in order to verify that the test points can be detected in all of the detection zones.
- Interlock reset mechanisms (such as switches) must be installed so that the entire hazardous zone can be affected by the resettable pre-check test. Interlock reset mechanisms should not be installed from within the hazardous zone.
- Muting is a function to allow a temporary automatic suspension of the GL-R safety functions while the GL-R is receiving a signal from muting devices (such as sensors or switches). Therefore, additional safety measures are required for the detection of when the GL-R is installed in order to ensure safety while the muting is activated.
- Muting devices, the installation of these devices and the procedure to activate the muting function must fulfill the conditions specified in this user's manual and the requirements of the laws, rules, regulations and standards in the country or region in which the GL-R and these devices are used. Failure to follow this warning may result in significant harm to the machine operators, including serious injury or death.
- When you install muting devices (such as sensors or switches) for muting, the following conditions must be fulfilled.
 - (1) Muting devices must be installed so that the muting cannot be activated if the hazardous zone of the machine is in an unsafe condition or cycle.
 - (2) Muting devices must be installed so that the muting cannot be activated even if the personnel is accidentally approaching the detection zone of the GL-R.
- The machine device must be installed such that only responsible personnel have access to that device to change the installation or operation. Special tools must be required to ensure that only responsible personnel are capable of installation, operation or change of muting devices.
- Only the responsible personnel may be allowed to install or wire the device to activate the muting function.
- The muting lamp may be required by the laws, rules, regulations, and standards in the country or region in which the GL-R is used if you apply the muting function. It depends on the machine application and/or the result of your risk assessment. If it is necessary for you to provide a muting lamp, you should install the muting lamp. Because you are fully responsible for the installation of the muting lamp.
- The override is a function to allow a temporary manual suspension of the safety functions of the GL-R. Therefore, additional safety measures are required for the entire machine system on which the GL-R is installed in order to ensure safety while the override is activated.
- The override devices, the installation of these devices and the procedures to activate the override must fulfill all of the procedures described in this user's manual as well as the requirements of the laws, rules, regulations and standards in the country or region in which the GL-R and these devices are used. Failure to follow this warning may result in significant harm to the machine operators, including serious injury or death.
- The override devices, which are used for activation of override, must be manual operating devices. When installing the devices to activate the override, these devices must be installed so that the safe hazardous zone can be identified by the responsible personnel and so that it is not possible for machine operators to operate these devices in the hazardous zone.

GI 12owners Manual

**United States. Department of the
Army**

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