


Instruction Manual

1. Marking

Relay Module HiC5861, HiC5861Y1, HiC5863, HiC5863Y1
ATEX certificate: PF 17 CERT 4192 X ATEX marking:  II 3G Ex nC eC IIC T4 Gc

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2. Target Group, Personnel

Responsibility for planning, assembly, commissioning, operation, maintenance, and dismantling lies with the plant operator.

The personnel must be appropriately trained and qualified in order to carry out mounting, installation, commissioning, operation, maintenance, and dismantling of the device. The trained and qualified personnel must have read and understood the instruction manual.

Prior to using the product make yourself familiar with it. Read the instruction manual carefully.

3. Reference to Further Documentation

Observe laws, standards, and directives applicable to the intended use and the operating location.

The corresponding datasheets, manuals, declarations of conformity, EU-type examination certificates, certificates, and control drawings if applicable supplement this document. You can find this information under www.pepperl-fuchs.com.

Observe the instruction manuals for the associated termination boards.

If you use the device in safety-related applications, observe the instructions in the documentation for functional safety. You can find this documentation under www.pepperl-fuchs.com

4. Intended Use

The device is only approved for appropriate and intended use. Ignoring these instructions will void any warranty and absolve the manufacturer from any liability.

The device is used in control and instrumentation technology (C&I technology). The device is designed for safety-related switching of load circuits.

Only use the module with the designated termination boards.

Use the device only within the specified ambient and operating conditions.

Only use the device stationary.

The device is an electrical apparatus for hazardous areas of Zone 2.

Only use the module in the hazardous area if the termination boards are also approved for the hazardous area.

The device may be installed in the non-hazardous area.

5. Improper Use

Protection of the personnel and the plant is not ensured if the device is not used according to its intended use.

The device is not suitable for isolating signals in power installations unless this is noted separately in the corresponding datasheet.

6. Mounting and Installation

Do not mount a damaged or polluted device.

Observe the installation instructions according to IEC/EN 60079-14.

Observe the installation instructions according to IEC/EN 60204-1.

Mount the device in a way that the device is protected against mechanical hazard. Mount the device in a surrounding enclosure for example.

Do not mount the device in the dust hazardous area.

Mount the device with at least a degree of protection of IP20 according to IEC/EN 60529.

The device must be installed and operated only in a controlled environment that ensures a pollution degree 2 (or better) according to IEC/EN 60664-1.

If used in areas with higher pollution degree, the device needs to be protected accordingly.

The device must be installed and operated only in an environment of overvoltage category II (or better) according to IEC/EN 60664-1.

Requirements for Equipment Protection Level Gc

Only use the module in the hazardous area if the termination boards are also approved for the hazardous area.

The device must be installed and operated only in surrounding enclosures that

- comply with the requirements for surrounding enclosures according to IEC/EN 60079-0,

- are rated with the degree of protection IP54 according to IEC/EN 60529.

Only plug and pull the energized module in the absence of a potentially explosive atmosphere.

7. Operation, Maintenance, Repair

The devices must not be repaired, changed or manipulated. If there is a defect, the product must always be replaced with an original device.

If you use the device in safety-related applications, observe the defined requirements for the proof test interval (T_1) of this application. You can find instructions on how to conduct a proof test in the documentation for functional safety.

If the voltage is greater than 50 V AC or 120 V DC, switch off the voltage before connecting or disconnecting the device.

Requirements for Equipment Protection Level Gc

Connection or disconnection of energized circuits is only permitted in the absence of a potentially explosive atmosphere.

Only plug and pull the energized module in the absence of a potentially explosive atmosphere.

8. Delivery, Transport, Disposal

Check the packaging and contents for damage.

Check if you have received every item and if the items received are the ones you ordered.

Always store and transport the device in the original packaging.

Store the device in a clean and dry environment. The permitted ambient conditions must be considered, see datasheet.

Disposing of device, packaging, and possibly contained batteries must be in compliance with the applicable laws and guidelines of the respective country.