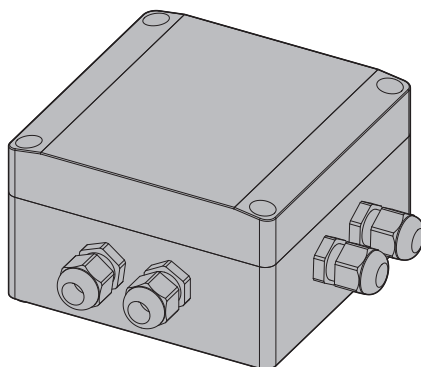




IRHPS Installation Manual

1 About this manual

Before installing and using this unit, please read this manual carefully. Be sure to keep it handy for later reference.

1.1 Typographical conventions

**DANGER!**

High level hazard.

Risk of electric shock. Disconnect the power supply before proceeding with any operation, unless indicated otherwise.

**CAUTION!**

Medium level hazard.

This operation is very important for the system to function properly. Please read the procedure described very carefully and carry it out as instructed.

**INFO**

Description of system specifications. We recommend reading this part carefully in order to understand the subsequent stages.

2 Notes on copyright and information on trademarks

The quoted names of products or companies are trademarks or registered trademarks.

3 Safety rules



CAUTION! The device must be installed only and exclusively by skilled technical personnel.



CAUTION! The electrical system to which the unit is connected must be equipped with a 20A max automatic bipolar circuit breaker. The minimum distance between the contacts must be 3mm (0.1in). The circuit breaker must be provided with protection against the fault current towards the ground (differential) and the overcurrent (magnetothermal).

- The manufacturer declines all responsibility for any damage caused by an improper use of the appliances mentioned in this manual. Furthermore, the manufacturer reserves the right to modify its contents without any prior notice. The documentation contained in this manual has been collected with great care. The manufacturer, however, cannot take any liability for its use. The same thing can be said for any person or company involved in the creation and production of this manual.
- Before starting any operation, make sure the power supply is disconnected.
- Do not use cables that seem worn or old.
- Never, under any circumstances, make any changes or connections that are not shown in this handbook. Improper use of the appliance can cause serious hazards, risking the safety of personnel and of the installation.
- Use only original spare parts. Non-original spare parts could cause fire, electrical discharge or other hazards.

- Before proceeding with installation, check the supplied material to make sure it corresponds to the order specification by examining the identification labels (4.2 Product markings, page 2).
- This device was designed to be permanently installed on a building or on a suitable structure. The device must be installed permanently before any operation.
- When installing the device, comply with all the national standards.
- Before starting any operation, make sure the power supply is disconnected.
- Installation category (also called Overvoltage Category) specifies the level of mains voltage surges that the equipment will be subjected to. The category depends upon the location of the equipment, and on any external surge protection provided. Equipment in an industrial environment, directly connected to major feeders/short branch circuits, is subjected to Installation Category III. If this is the case, a reduction to Installation Category II is required. This can be achieved by use of an insulating transformer with an earthed screen between primary and secondary, or by fitting listed Surge Protective Devices (SPDs) from live to neutral and from neutral to earth. Listed SPDs shall be designed for repeated limiting of transient voltage surges, suitable rated for operating voltage and designated as follows: Type 2 (Permanently connected SPDs intended for installation on the load side of the service equipment overcurrent device); Nominal Discharge Current (In) 20kA min. For example: FERRAZ SHAWMUT, STT2240SPG-CN, STT2BL240SPG-CN rated 120Vac/240Vac, (In=20kA). Maximum distance between installation and reduction is 5m.

4 Identification

4.1 Product description and type designation

Power supply module for GEKO IRH LED illuminator.

4.2 Product markings

See the label attached to the product.

5 Preparing the product for use



Any change that is not expressly approved by the manufacturer will invalidate the guarantee.

5.1 Unpacking

When the product is delivered, make sure that the package is intact and that there are no signs that it has been dropped or scratched.

If there are obvious signs of damage, contact the supplier immediately.

Keep the packaging in case you need to send the product for repairs.

5.2 Contents

Check the contents to make sure they correspond with the list of materials as below:

- Power supply
- Instructions manual

5.3 Safely disposing of packaging material

The packaging material can all be recycled. The installer technician will be responsible for separating the material for disposal, and in any case for compliance with the legislation in force where the device is to be used.

When returning a faulty product we recommend using the original packaging for shipping.

6 Installation

6.1 Open the box

Once the box is open, identify the power input terminal J1, the output terminals J2 and J3 and the position of the fuse FUS1.

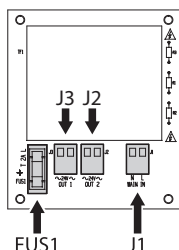


Fig. 1

6.2 Connection of the first illuminator

Connect the power cables of the first illuminator to J3, output OUT 1 (the white and black cables in the illuminator power cable).

i The installation is facilitated by removing the terminal, making the connection and inserting the terminal once the wiring is complete.

i Install the power supply as near as possible to the illuminator in order to have short low voltage cables (shorter than 20m/ 65.6ft).

The remaining 2 wires (red and green) are used for the remote activation of the illuminator.

3 configurations are possibles:

- Insulate the 2 red and green cables separately if automatic switch-on is used via the photocell on the illuminator.
- If you wish to force the illuminator on, short circuit the 2 cables and isolate them with a terminal.
- Connect the 2 cables to an external dry contact if you wish to turn the illuminator on remotely with a dry contact.

Refer to the relative manual for installation and control of the illuminator.

6.3 Connection of the second illuminator

If present, connect the second illuminator in the same way as the first, using terminal J2.

i **Never connect the remote illuminator activation cables (red and green wires) to those of the first illuminator. If there are 2 illuminators and you wish to check them with a dry contact, each one must have its own clean activation contact. Alternatively, it is recommended to short circuit the red and green cables separately (illuminator 1 and illuminator 2) and act on the main power supply (J1) to turn the 2 illuminators on or off simultaneously via the remote switch.**

6.4 Connection of the power supply line

⚠ When commencing installation make sure that the specifications for the power supply for the installation correspond with those required by the device.

⚠ Make sure the supply voltage is compliant with the power supply specifications (230Vac or 120Vac, 50/60Hz, depending on the model purchased).

⚠ Use a cable with an adequate cross-section, depending on the type of system, which must in any case be between the following values:: 0.5mm²-1.5mm² (16-20 AWG)

⚠ Make sure that the power source and connecting cables are suitable for the power consumption of the system.

The power supply from the mains is to be connected into terminal J1.

7 Maintaining



Maintenance must be carried out by personnel trained to operate on electrical circuits.

7.1 Fuses replacement

In case of accidental short circuit or fault to the outputs, the protection fuse (FUS1) acts .

The used fuse is described below.

Model Number: FUS2ATUL

Brand: OMEGA

Models: GT520220

Alternatively, use a T 2A L 250V type fuse.

8 Disposal of waste materials



This symbol mark and recycle system are applied only to EU countries and not applied to the countries in the other area of the world.

Your product is designed and manufactured with high quality materials and components which can be recycled and reused.

This symbol means that electrical and electronic equipment, at their end-of-life, should be disposed of separately from your household waste.

Please dispose of this equipment at your local Community waste collection or Recycling centre.

In the European Union there are separate collection systems for used electrical and electronic products.

9 Technical data

9.1 Electrical

IRHPS230: IN 230Vac, 50/60Hz, 30W max - OUT 24Vac, 1.2A

IRHPS120: IN 120Vac, 50/60Hz, 30W max - OUT 24Vac, 1.2A

9.2 Environment

Operating temperature: From -50°C (-58°F) up to +60°C (140°F)

9.3 Certifications

Electrical safety (CE): EN62368-1

Electromagnetic compatibility (CE): EN50130-4, , EN55022 (Class A), FCC Part 15 (Class A)

IP protection degree: EN60529, (IP66)

10 Technical drawings



The dimensions of the drawings are in millimetres.

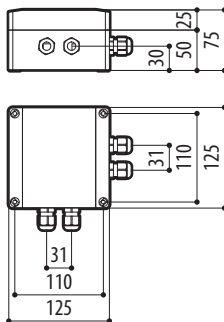


Fig. 2 IRHPS.

Pelco, Inc.
625 W. Alluvial Ave., Fresno, California 93711 United States
(800) 289-9100 Tel
(800) 289-9150 Fax
+1 (559) 292-1981 International Tel
+1 (559) 348-1120 International Fax
www.pelco.com

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