



## INSTALLATION AND OPERATION MANUAL

# FSFP Series

## COPPER AND OPTICAL FIBER ETHERNET CONNECTORS

The FSFP selection of Small Form-Factor Pluggable modules allow for an optical or copper interface when using a compatible Pelco Ethernet device.

These interchangeable FSFP modules are available for use with copper media, or multimode and single mode optical fiber. The optical fiber FSFP modules are available in fast Ethernet one and two fiber versions and Gigabit one and two fiber versions. They also are available with LC or SC optical connectors.

The FSFP modules have different wavelengths and optical power to offer distances from 300 meters to 120 kilometers. These FSFP modules are industrially rated to perform in the most difficult operating environments.

The FSFP interface is required for use with all FSFP-configurable Ethernet products to qualify for the included warranty.



See **Page 3** for complete installation instructions.

# IMPORTANT SAFETY INSTRUCTIONS

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1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the points where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
14. Apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases shall be placed on the apparatus.
15. **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
16. Installation should be done only by qualified personnel and conform to all local codes.
17. Unless the unit is specifically marked as a NEMA Type 3, 3R, 3S, 4, 4X, 6, or 6P enclosure, it is designed for indoor use only and it must not be installed where exposed to rain and moisture.
18. Use only installation methods and materials capable of supporting four times the maximum specified load.
19. A CCC-approved power cord must be used to power this equipment when used in China.
20. **CAUTION:** These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

The product and/or manual may bear the following marks:

-  This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.
-  This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

## CAUTION:

RISK OF ELECTRIC SHOCK.

DO NOT OPEN.



**WARNING:** This product is sensitive to Electrostatic Discharge (ESD). To avoid ESD damage to this product, use ESD safe practices during installation. Before touching, adjusting or handling this product, correctly attach an ESD wrist strap to your wrist and appropriately discharge your body and tools. For more information about ESD control and safe handling practices of electronics, please refer to ANSI/ESD S20.20-1999 or contact the Electrostatic Discharge Association ([www.esda.org](http://www.esda.org)).

**SFP-(X) INSTALLATION/REMOVAL**

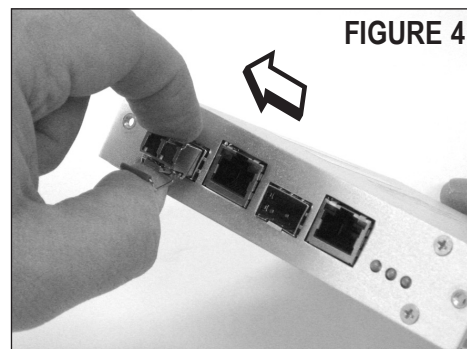
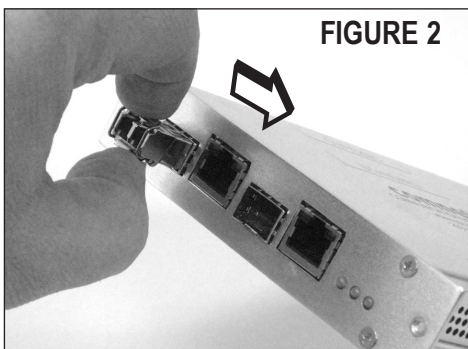
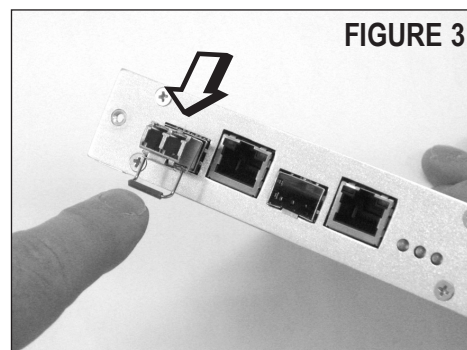
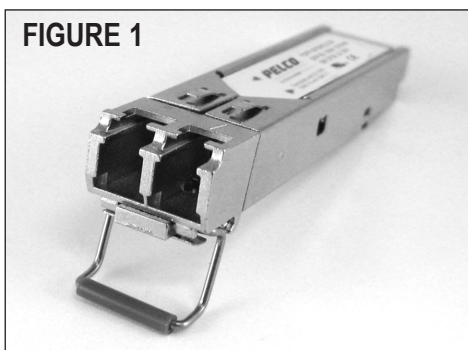
**CAUTION:**

- The Fiber Optic sub-module is static sensitive. Use static handling precautions when installing or removing the sub-module.
- Protect your FSFP sub-modules by inserting clean dust plugs into the FSFP sub-modules after the optical fiber is extracted from them. Be sure to clean the optic surfaces of the optical fiber before you plug them back into the optical bores of another FSFP sub-module. Avoid getting dust and other contaminants into the optical bores of your FSFP sub-modules. The optics will not work correctly when obstructed by dust.

**SFP Module:**

- The FSFP sub-module installs in the connector cage located on the unit corresponding to the port assignment to be used.
- The FSFP sub-module is keyed and can only be installed in one orientation.
- The FSFP sub-module (see Figure 1) has a bale clasp that you use to secure the FSFP sub-module in a connector cage.

The photos used in the following sequence are intended to aid in the installation and removal of the FSFP sub-module and may not match your particular model.



**Installation:**

- Step 1 - Flip the bale clasp up before inserting the FSFP module.
  - Step 2 - Line up the FSFP sub-module with the port and slide it into the port. (see **Figure 2**)
  - Step 3 - When you are ready to attach the optical fiber, remove the rubber plugs from the sub-module and save for future use.
- Note: When installed properly the FSFP sub-module will lock in place.

**Removal:**

- Step 1 - Disconnect the optical fiber from the FSFP sub-module.
- Step 2 - Open the bale clasp on the FSFP sub-module by pressing it down with your index finger as shown in **Figure 3**.
- Step 3 - Grasp the FSFP sub-module between your thumb and index finger and carefully remove it from the connector cage as shown in **Figure 4**.
- Step 4 - Install the rubber plugs back into the FSFP sub-module optical bores, and place the FSFP sub-module in anti-static protective packaging.

## PRODUCT WARRANTY AND RETURN INFORMATION

### WARRANTY

Pelco will repair or replace, without charge, any merchandise proved defective in material or workmanship **for a period of one year** after the date of shipment.

Exceptions to this warranty are as noted below:

- Five years:
  - Fiber optic products
  - Unshielded Twisted Pair (UTP) transmission products
  - CC3701H-2, CC3701H-2X, CC3751H-2, CC3651H-2X, MC3651H-2, and MC3651H-2X camera models
- Three years:
  - FD Series and BU Series analog camera models
  - Fixed network cameras and network dome cameras with Sarix® technology
  - Sarix thermal imaging products (TI and ESTI Series)
  - Fixed analog camera models (C20 Series, CCC1390H Series, C10DN Series, and C10CH Series)
  - EH1500 Series enclosures
  - Spectra® IV products (including Spectra IV IP)
  - Spectra HD dome products
  - Camclosure® IS Series integrated camera systems
  - DX Series video recorders (except DX9000 Series which is covered for a period of one year), DVR5100 Series digital video recorders, Digital Sentry® Series hardware products, DVX Series digital video recorders, and NVR300 Series network video recorders
  - Endura® Series distributed network-based video products
  - Genex® Series products (multiplexers, server, and keyboard)
  - PMCL200/300/400 Series LCD monitors
  - PMCL5xxF Series and PMCL5xxNB Series LCD monitors
  - PMCL5xxxBL Series LED monitors
- Two years:
  - Standard varifocal, fixed focal, and motorized zoom lenses
  - DF5/DF8 Series fixed dome products
  - Legacy® Series integrated positioning systems
  - Spectra III™, Spectra Mini, Spectra Mini IP, Esprit®, ExSite®, ExSite IP, and PS20 scanners, including when used in continuous motion applications
  - Esprit Ti and TI2500 Series thermal imaging products
  - Esprit and WW5700 Series window wiper (excluding wiper blades)
  - CM6700/CM6800/CM9700 Series matrix
  - Digital Light Processing (DLP®) displays (except lamp and color wheel). The lamp and color wheel will be covered for a period of 90 days. The air filter is not covered under warranty.

- Six months:

- All pan and tilts, scanners, or preset lenses used in continuous motion applications (preset scan, tour, and auto scan modes)

Pelco will warrant all replacement parts and repairs for 90 days from the date of Pelco shipment. All goods requiring warranty repair shall be sent freight prepaid to a Pelco designated location. Repairs made necessary by reason of misuse, alteration, normal wear, or accident are not covered under this warranty.

Pelco assumes no risk and shall be subject to no liability for damages or loss resulting from the specific use or application made of the Products. Pelco's liability for any claim, whether based on breach of contract, negligence, infringement of any rights of any party or product liability, relating to the Products shall not exceed the price paid by the Dealer to Pelco for such Products. In no event will Pelco be liable for any special, incidental, or consequential damages (including loss of use, loss of profit, and claims of third parties) however caused, whether by the negligence of Pelco or otherwise.

The above warranty provides the Dealer with specific legal rights. The Dealer may also have additional rights, which are subject to variation from state to state.

If a warranty repair is required, the Dealer must contact Pelco at (800) 289-9100 or (559) 292-1981 to obtain a Repair Authorization number (RA), and provide the following information:

1. Model and serial number
2. Date of shipment, P.O. number, sales order number, or Pelco invoice number
3. Details of the defect or problem

If there is a dispute regarding the warranty of a product that does not fall under the warranty conditions stated above, please include a written explanation with the product when returned.

Method of return shipment shall be the same or equal to the method by which the item was received by Pelco.

### RETURNS

To expedite parts returned for repair or credit, please call Pelco at (800) 289-9100 or (559) 292-1981 to obtain an authorization number (CA number if returned for credit, and RA number if returned for repair) and designated return location.

All merchandise returned for credit may be subject to a 20 percent restocking and refurbishing charge.

Goods returned for repair or credit should be clearly identified with the assigned CA or RA number and freight should be prepaid.

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This equipment contains electrical or electronic components that must be recycled properly to comply with Directive 2002/96/EC of the European Union regarding the disposal of waste electrical and electronic equipment (WEEE). Contact your local dealer for procedures for recycling this equipment.





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