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About this manual

Read all the documentation supplied carefully before installing and using this device. Keep the manual in a convenient place for future reference.

Typographical conventions



Danger: Explosion hazard. Read carefully to avoid danger of explosion.



Danger: High level hazard. Risk of electric shock. Disconnect the power supply before proceeding with any operation, unless indicated otherwise.



Danger: Mechanical hazard. Risk of crushing or shearing.



Danger: Hot surface. Avoid contact. Surfaces are hot and may cause personal injury if touched.



Danger: Emission of visible light or infrared. Can be harmful for eyes. Pay attention to the provided indications.



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.

Information in sections with Underlined titles information is subject to certification.

Notes on copyright and information on trademarks

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

Safety

Safety rules for hazardous environment



Danger: Explosion hazard. Read carefully to avoid danger of explosion.

- Installation and maintenance of the device must be carried out by specialist technical staff in compliance with the applicable reference standard EN/IEC 60079-14, EN/IEC 60079-17 and national standards.
- Do not open the device when powered and in explosive atmosphere.
- Use appropriate tools for the installation. The particular nature of the site where the device is to be installed may mean special tools are required for installation.
- Make all connections, installation and maintenance work in a non-explosive atmosphere.
- Before powering the device in an explosive atmosphere, ensure the enclosure is closed correctly.
- The temperature of the surfaces of the device is increased by exposure to direct sunlight. The surface temperature class of the device was determined only with ambient temperature, without taking into consideration direct sunlight.
- Make sure that all the device is certified for the application and for the environment in which it will be installed.
- Any change that is not expressly approved by the manufacturer will invalidate the guarantee.



Danger: Risk of explosion due to electrostatic discharge.

- The device is intended for fixed installation and the user shall not frequently touch the device in service (other than maintenance).
- Take suitable measures to ensure that no electrostatic discharges can build up in the classified area.
- The device must be cleaned using a damp cloth; compressed air must not be used.
- Make sure that all personnel and equipment are correctly grounded.
- Install only when the environmental relative humidity is over the 30% (stable, ever or for long time) or in ambient with humidity control system.
- The equipotential connection is mandatory to avoid the risk of ignition of products installed in potentially explosive environments.
- Do not install in a location where the electrostatic charge can increase without technical solutions able to avoid electrostatic charge allowed in IEC/TS 60079-32-1, TR 600079-32-1 and/or in IEC 60079-14 standards. Example:
 - Locations near ventilation systems.
 - Locations where there is a risk of an increase in electrostatic charge caused by compressed air and dust.
 - Locations where activities such as highly charged generating processes, mechanical friction and separation processes of dust, pneumatic powder conveying flow, liquid droplet spraying or charge spraying applications take place.

Safety rules



Danger: High level hazard. Risk of electric shock. Disconnect the power supply before proceeding with any operation, unless indicated otherwise.

- Make sure that the power is off when installing or carrying out maintenance, with the circuit-breaker open.
- A power disconnect device must be included in the electrical installation, and it must be very quickly recognizable and operated if needed.
- The electrical system to which the unit is connected must be equipped with a 10A max automatic bipolar circuit breaker. The minimum distance between the circuit breaker 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 device can only be considered to be switched off when the power supply has been disconnected and the connection cables to other devices have been removed.
- Be careful not to use cables that seem worn or old.
- All the cables must comply with IEC60332-1-2, IEC 60332-1-3 and IEC/EN60079-14.
- Before starting the installation make sure that the specifications for the power supply for the installation correspond with those required by the device.
- For continued protection against risk of fire, replace only with same type and rating of fuse. Fuses must be replaced only by service personnel.
- This equipment is not suitable for use in locations where children are likely to be present.
- This device must be connected to an earth conductor (protective earth). This connection must only be performed through the power line connector.

- Check that the power supply socket and cable are adequately dimensioned.
- Use suitable cables that can withstand the operating temperatures.
- All disconnected cables must be electrically isolated.



Danger: Mechanical hazard. Risk of crushing or shearing.

- Hazardous moving parts. Keep fingers and other body parts away.
- At start up the system makes some automatic calibration movements: do not stand near the device when it is powered.
- This device is remotely controlled and may change position at any time. It must be installed so that no one can be hit by moving parts. It must be installed so that moving parts cannot hit other objects and create hazardous situations.



Danger: Hot surface. Avoid contact. Surfaces are hot and may cause personal injury if touched.

- During normal operation the surface of the illuminator can reach high temperatures. Do not allow direct contact and position the appliance where it is inaccessible to unauthorised persons. Before touching, switch off the illuminator and allow to cool for a minimum period of 10 minutes.



Danger: Emission of visible light or infrared. Can be harmful for eyes. Pay attention to the provided indications.

- Do not stare at the lamp when on. Can be harmful for eyes.
- CAUTION! The infrared LED illuminator emits high intensity visible light. In compliance with standard EN62471/IEC62471, the photobiological safety assessment has classified the device in Risk Group 2, where it exceeds the values of the Exempt Group. The risk linked to the observer depends on how the product has been installed and is used. For installation, follow the instructions in this manual. Do not look directly at the illuminator using optical lenses. Exposure hazard values (EHV): 24s. Hazard distances (HD): 200mm.
- CAUTION! The white LED illuminator emits visible high intensity light. In compliance with standard EN62471/IEC62471, the photobiological safety assessment has classified the device in Risk Group 2, where it exceeds the values of the Exempt Group. The risk linked to the observer depends on how the product has been installed and is used. For installation, follow the instructions in this manual. Do not look directly at the illuminator using optical lenses. Exposure hazard values (EHV): 22s. Hazard distances (HD): 200mm.



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.

- The system can be installed only in a standard or inverted position (ceiling mount).
- Make sure that the installation complies with local regulations and specifications.
- Make connections and tests in the laboratory before carrying out installation on site.
- Make sure the product is to be secured to building before operation.
- The manufacturer declines all liability for damage to any of the apparatus mentioned in this installation manual, when resulting from tampering, use of non-original spare parts, installation, maintenance and repairs performed by non-authorized, nonskilled personnel.
- For technical services, consult only and exclusively authorized technicians.
- This product must only be repaired by suitably trained personnel or under the supervision of manufacturer personnel in accordance with the foreseen terms and conditions: IEC/EN60079-19.

- Only use original manufacturer spare parts. Strictly adhere to the maintenance instructions attached to each replacement kit.
- Since the user is responsible for choosing the surface to which the unit is to be anchored, we do not supply the fixing devices for attaching the unit firmly to the particular surface. The installer is responsible for choosing fixing devices suitable for the specific purpose on hand. Use methods and materials capable of supporting at least 4 times the weight of the device.



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

- Given the considerable weight of the system, use an appropriate transport and handling system. The staff must carry out the handling of the product in compliance with the common accident prevention standards.
- Before proceeding with installation, check the supplied material to make sure it corresponds to the order specification by examining the identification labels.
- Equipment is intended for installation in restricted access area.
- 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 and verified 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.
- For all maintenance interventions, we recommend you return the product to the laboratory that will perform all required operations.
- This is a Class A product. In a domestic environment this product may cause radio interference. In this case the user may be required to take adequate measures.
- To comply with the main supply voltage dips and short interruption requirements, use a suitable Uninterruptible Power Supply (UPS) to power the unit.
- Do not use the wiper if the ambient temperature is under 0°C or if there is ice.

Product description and type designation

The EXSITE® PRO PTZ SERIES series of aluminum PTZ cameras can be installed in potentially explosive environments.

The EXSITE® PRO PTZ SERIES series is equipped with either NPT or metric cable entries according to the model.

The EXSITE® PRO PTZ SERIES series has an IP66/IP68/IP69 degree of protection and can be installed in environments with temperatures from -40°C to +70°C (check the marking for each model available).

Versions are available with: visible camera, thermal camera, visual and thermal camera, visible camera with LED illuminator (IR or visible light).

The power supply voltage is indicated on the product identification label:

- From 100Vac up to 240Vac, 1.2A, 50/60Hz, +/-10%

Range of use

The device is designed for use in a fixed location, for surveillance of areas classified as zone 1-21 and zone 2-22 with potentially explosive atmospheres.

The unit has been built and certified in compliance with directive 2014/34/UE and with the international standards IECEx, which define its range of application and minimum safety requirements.

Specific use conditions

Contact the manufacturer for information on the dimensions of the flameproof joint.

Ambient temperature and Surface temperature. See installation instructions.

Take care to prevent accumulation of electrostatic charges. See installation instructions.

The device can be installed in standard or inverted positions only .

Except for front cover base and back cover base, use fasteners with property A4 Class 70, head ISO 4762, Yeld stress ≥ 450 Mpa.

Front cover base and back cover base only: use fasteners with property A4 Class 80, head ISO 4762, Yeld stress ≥ 600 Mpa.

Gas Group, Dust Group and Temperatures

The device is certified for the IIB+H2 group (Gas) or IIC group (Gas), depending on the ambient temperature, and for the IIIC group (dust). The temperature class, the maximum surface temperature and the temperature of the cables entries depend on the ambient temperature. The features are specified for each model in the model-specific chapters.

Characteristics of installable devices

All the internal components must be installed inside the device by the manufacturer.

Cable entry

The device can have one or two 3/4" NPT cable entries.

The device can be supplied with plastic caps that protect cable entry points, which cannot be used for installation.

Unused cable entries must be closed using appropriate Ex-certified locking devices rated for "db" and "tb" type protection that are suitable for the use conditions and installed correctly.

All cable glands shall be Ex certified, as appropriate, rated for "db" and "tb" type protection that are suitable for the use conditions when installed correctly.

When a conduit is used, a suitably appropriate Ex certified stopping box must be used, rated for "db" and "tb" type protection that are suitable for the use conditions when installed correctly.

The stopping box must be fitted within 50mm (1.97in) of the enclosure entry.

The cable entry temperatures are specified in the marking.

To maintain the IP level of product use cable glands with appropriate IP level and apply to threads a sealant compliant with standard IEC/EN60079-14.

Stopping plug

In the two entries version an EX-certified stopping plug is supplied with the device that provides "db" and "tb" type protection. Thread sealant compliant with IEC/EN60079-14 is also supplied, to ensure the correct IP rating is maintained for the product.

Variants

Product overview

The product consists of the following parts:

1. Sunshield/s.
2. Housing/s.
3. Body.
4. Junction box.

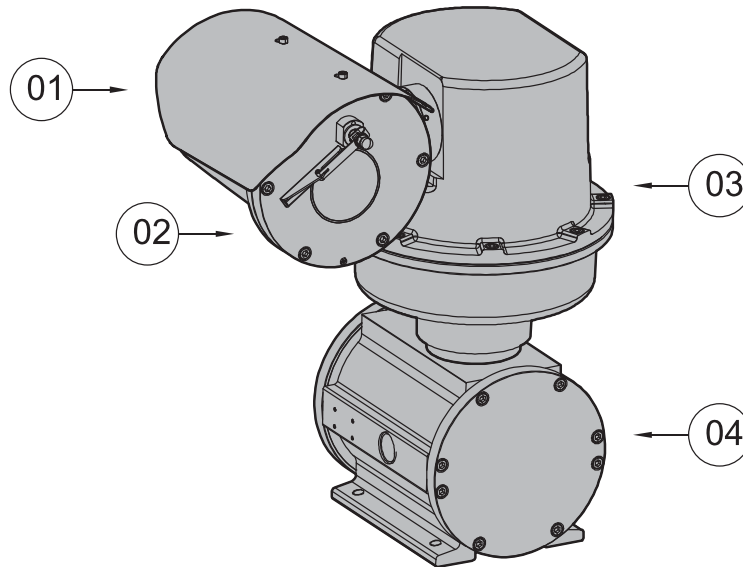


Figure 1: EXSITE® PRO PTZ SERIES overview.

Day/Night camera

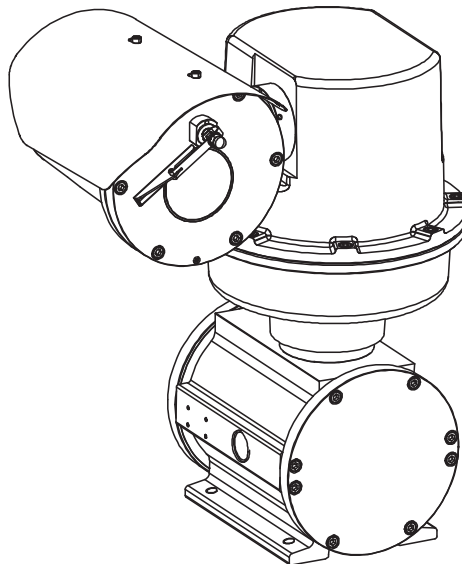
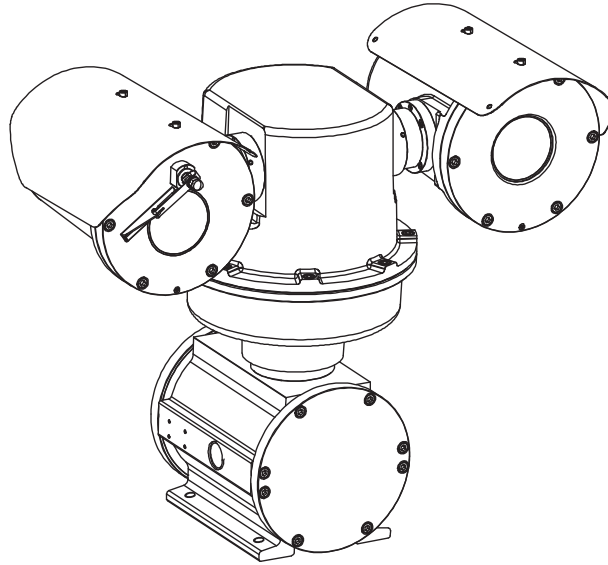


Figure 2: EXSITE® PRO PTZ SERIES EXPP1.

Day/Night camera and LED illuminator



Product marking label

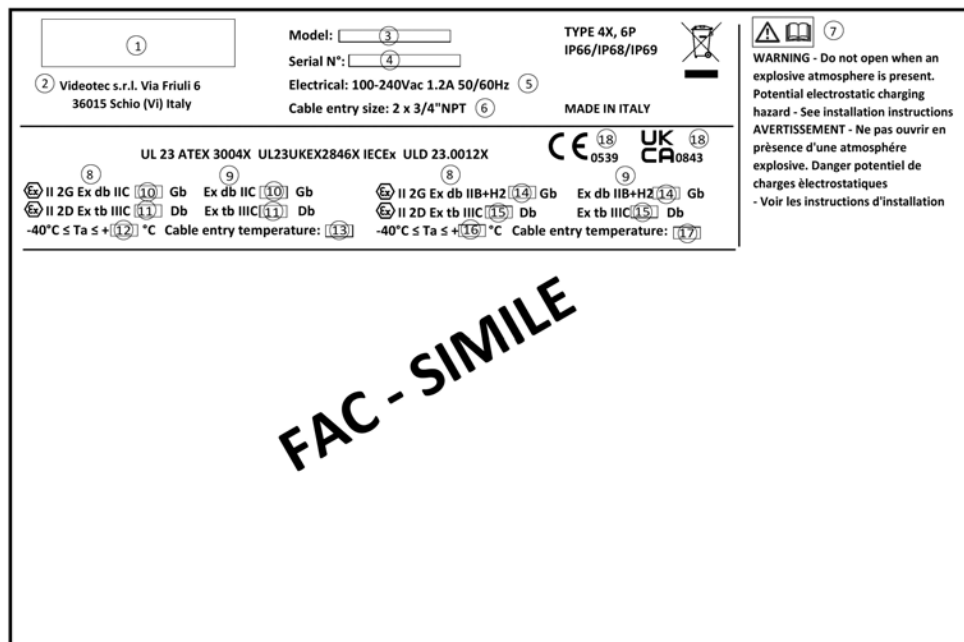


Figure 3: Product marking label.

The following information must all be present but may be arranged differently from the images in this document

1. Trademark
2. Manufacturer's name and address.
3. Model.

4. The serial number consists of 12 numeric characters, the second and third digits define the last two numbers of the year of manufacture.
5. Electrical characteristics (voltage V, current A, frequency Hz).
6. Number, dimension and type of cable entries.
7. Warnings.
8. ATEX and or UKCA marking.
9. IECEx marking.
10. T Class (Tx or Tx...Tx) refers to group IIC
11. Max surface temperature (Tx°C or Tx°C...Tx°C) refers the group IIIC
12. Ambient temperature refers to group IIC ($-40^{\circ}\text{C} \leq T_a \leq T_x^{\circ}\text{C}$ or $-40^{\circ}\text{C} \leq T_a \leq T_x^{\circ}\text{C}$ or $T_x^{\circ}\text{C}$)
13. Cable entry temperature refers to group IIC
14. T Class (Tx or Tx...Tx) refers the group IIB+H2
15. Max surface temperature (Tx°C or Tx°C...Tx°C) refers to group IIIC
16. Ambient temperature refers to group IIB+H2 ($-40^{\circ}\text{C} \leq T_a \leq T_x^{\circ}\text{C}$ or $-40^{\circ}\text{C} \leq T_a \leq T_x^{\circ}\text{C}$ or $T_x^{\circ}\text{C}$)
17. Cable entry temperature refers to group IIB+H2
18. The number of the accredited body that provides the quality assessment.

Requirements for the UL/CSA standard



The flameproof joints are not intended to be repaired.



CAUTION! Hazardous moving parts. Keep fingers and other body parts away.



Danger: The appliance includes moving parts. Make sure that the unit is positioned where it is inaccessible under normal operating conditions. Attach the warning label supplied with the appliance, placing it near the unit so that it can be seen easily.



Figure 4: Warning label.



In the USA, the National Electrical Code (NEC) and in Canada the Canadian Electrical Code (CEC) apply to electrical equipment used on hazardous industrial premises.

Important safety instructions



DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT.

NE PAS OUVRIR EN PRÉSENCE D'UNE ATMOSPHÈRE EXPLOSIVE.



POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS.

DANGER POTENTIEL DE CHARGES ÉLECTROSTATIQUES - VOIR INSTRUCTIONS.



A SEAL SHALL BE INSTALLED WITHIN 50MM OF THE ENCLOSURE.

UN SCELLEMENT DOIT ÊTRE INSTALLÉ À MOINS DE 50MM DU BOÎTIER.

Connections



The choice of connection must comply with local legislation in force.

Cable glands: select a cable gland in compliance with UL2225 with the following protection AEx db IIC or AEx db IIB+H2 and/or AEx tb IIIC and C22.2 with the following protection Ex db IIC or Ex db IIB+H2 and/or Ex tb IIIC in compliance with the marking of the product.

Conduit: it is necessary to install a sealing device within 50mm of the product input when the conduit is used.

Regulation references:

UL 60079-0, 7th Edition, Explosive Atmospheres - Part 0: Equipment General requirements

UL 60079-1, 7th Edition, Explosive Atmospheres - Part 1: Equipment Protection by Flameproof Enclosures "d"

UL 60079-31, 2nd Edition, Explosive Atmospheres - Part 31: Equipment Dust Ignition Protection by Enclosure "t"

CSA C22.2 No. 60079-0:19, Explosive Atmospheres - Part 0: Equipment - General requirements

CSA C22.2 No. 60079-1:16, Explosive Atmospheres - Part 1: Equipment Protection by Flameproof Enclosures "d"

CSA C22.2 No. 60079-31:15, Explosive Atmospheres - Part 31: Equipment Dust Ignition Protection by Enclosure "t"

Model identification

Day/Night camera

EXPP- CERTIFICATIONS AND MARKING			
Certification	Marking	Ambient temperature	Cable entry temperature
UL 23 ATEX 3004X	Ex II 2G Ex db IIB+H2 T5 Gb	-40°C ≤ Ta ≤ +70°C	+81°C
	Ex II 2D Ex tb IIIC T100°C Db		
	Ex II 2G Ex db IIC T6 Gb	-40°C ≤ Ta ≤ +60°C	+80°C
	Ex II 2D Ex tb IIIC T85°C Db		

EXPP- CERTIFICATIONS AND MARKING			
IECEX ULD 23.0012X	Ex db IIB+H2 T5 Gb Ex tb IIIC T100°C Db	-40°C ≤ Ta ≤ +70°C	+81°C
	Ex db IIC T6 Gb Ex tb IIIC T85°C Db	-40°C ≤ Ta ≤ +60°C	+80°C
UK Ex - UL23UKEX2846X	Ex II 2G Ex db IIB+H2 T5 Gb Ex II 2D Ex tb IIIC T100°C Db	-40°C ≤ Ta ≤ +70°C	+81°C
	Ex II 2G Ex db IIC T6 Gb Ex II 2D Ex tb IIIC T85°C Db	-40°C ≤ Ta ≤ +60°C	+80°C
KCs 24-KA4BO- 0030X - 24-KA4BO- 0031X¹	Ex db IIB+H2 T5 Gb Ex tb IIIC T100°C Db	-40°C ≤ Ta ≤ +70°C	+81°C
	Ex db IIC T6 Gb Ex tb IIIC T85°C Db	-40°C ≤ Ta ≤ +60°C	+80°C
INMETRO UL-BR 24.0211X	Ex db IIB+H2 T5 Gb Ex tb IIIC T100°C Db	-40°C ≤ Ta ≤ +70°C	+81°C
	Ex db IIC T6 Gb Ex tb IIIC T85°C Db	-40°C ≤ Ta ≤ +60°C	+80°C
cULus E319666 Hazardous Location America	Class I, Zone 1, A Ex db IIB+H2 T5 Gb Zone 21, A Ex tb IIIC T100°C Db Class I, Div 2, Group B, C, D T5 Class II, Div 2, Group F, G T5	-40°C ≤ Ta ≤ +70°C	+81°C
	Class I, Zone 1, A Ex db IIC T6 Gb Zone 21, A Ex tb IIIC T85°C Db Class I, Div 2, Group A, B, C, D T6 Class II, Div 2, Group F, G T6	-40°C ≤ Ta ≤ +60°C	+80°C
cULus E319666 Hazardous Location Canada	Ex db IIB+H2 T5 Gb X Ex tb IIIC T100°C Db X Class I, Div 2, Group B, C, D T5 Class II, Div 2, Group F, G T5	-40°C ≤ Ta ≤ +70°C	+81°C
	Ex db IIC T6 Gb X Ex tb IIIC T85°C Db X Class I, Div 2, Group A, B, C, D T6 Class II, Div 2, Group F, G T6	-40°C ≤ Ta ≤ +60°C	+80°C

EXPP- CERTIFICATIONS AND MARKING			
TS mark	Ex db IIB+H2 T5 Gb Ex tb IIIC T100°C Db	-40°C ≤ Ta ≤ +70°C	+81°C
	Ex db IIC T6 Gb Ex tb IIIC T85°C Db	-40°C ≤ Ta ≤ +60°C	+80°C

Note 1: 적용되는 기준의 목록 및 개정일자: 방호장치 안전인증고시 2021-22

Table 1: EXSITE® PRO PTZ SERIES (EXPP) - CERTIFICATIONS AND MARKINGS.

Day/Night camera and LED illuminator

EXPL- CERTIFICATIONS AND MARKING			
Certification	Marking	Ambient temperature	Cable entry temperature
UL 23 ATEX 3004X	Ex II 2G Ex db IIB+H2 T5 Gb Ex II 2D Ex tb IIIC T100°C Db	-40°C ≤ Ta ≤ +70°C	+82°C
	Ex II 2G Ex db IIC T6...T5 Gb Ex II 2D Ex tb IIIC T85°C...T100°C Db	-40°C ≤ Ta ≤ +55°C or +60°C	+80°C
IECEX ULD 23.0012X	Ex db IIB+H2 T5 Gb Ex tb IIIC T100°C Db	-40°C ≤ Ta ≤ +70°C	+82°C
	Ex db IIC T6...T5 Gb Ex tb IIIC T85°C...T100°C Db	-40°C ≤ Ta ≤ +55°C or +60°C	+80°C
UK Ex - UL23UKEX2846X	Ex II 2G Ex db IIB+H2 T5 Gb Ex II 2D Ex tb IIIC T100°C Db	-40°C ≤ Ta ≤ +70°C	+82°C
	Ex II 2G Ex db IIC T6...T5 Gb Ex II 2D Ex tb IIIC T85°C...T100°C Db	-40°C ≤ Ta ≤ +55°C or +60°C	+80°C
KCs 24-KA4BO-0026X - 24-A4BO-0028X ¹	Ex db IIB+H2 T5 Gb Ex tb IIIC T100°C Db	-40°C ≤ Ta ≤ +70°C	+82°C
KCs 24-KA4BO-0027X - 24-KA4BO-0028X ¹	Ex db IIC T6... T5 Gb Ex tb IIIC T85°C...T100°C Db	-40°C ≤ Ta ≤ +55°C or +60°C	+80°C
INMETRO UL-BR 24.0211X	Ex db IIB+H2 T5 Gb Ex tb IIIC T100°C Db	-40°C ≤ Ta ≤ +70°C	+82°C
	Ex db IIC T6... T5 Gb Ex tb IIIC T85°C... T100°C Db	-40°C ≤ Ta ≤ +55°C or +60°C	+80°C

EXPL- CERTIFICATIONS AND MARKING			
cULus E319666 Hazardous Location America	Class I, Zone 1, A Ex db IIB+H2 T4 Gb Zone 21, A Ex tb IIIC T135°C Db Class I, Div 2, Group B, C, D T4 Class II, Div 2, Group F, G T4	-40°C ≤ Ta ≤ +70°C	+84°C
	Class I, Zone 1, A Ex db IIC T4 Gb Zone 21, A Ex tb IIIC T135°C Db Class I, Div 2, Group A, B, C, D T4 Class II, Div 2, Group F, G T4	-40°C ≤ Ta ≤ +60°C	+80°C
cULus E319666 Hazardous Location Canada	Ex db IIB+H2 T4 Gb X Ex tb IIIC T135°C Db X Class I, Div 2, Group B, C, D T4 Class II, Div 2, Group F, G T4	-40°C ≤ Ta ≤ +70°C	+84°C
	Ex db IIC T4 Gb X Ex tb IIIC T135°C Db X Class I, Div 2, Group A, B, C, D T4 Class II, Div 2, Group F, G T4	-40°C ≤ Ta ≤ +60°C	+80°C
TS mark	Ex db IIB+H2 T5 Gb Ex tb IIIC T100°C Db	-40°C ≤ Ta ≤ +70°C	+82°C
	Ex db IIC T6...T5 Gb Ex tb IIIC T85°C...T100°C Db	-40°C ≤ Ta ≤ +55°C or +60°C	+80°C

Note¹ : 적용되는 기준의 목록 및 개정일자: 방호장치 안전인증고시 2021-22

Table 2: EXSITE® PRO PTZ SERIES (EXLP) - CERTIFICATIONS AND MARKINGS.

Preparing the product for use



Before carrying out any type of maintenance, read the "Safety rules" chapter carefully in the product manual.

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. When returning a faulty product we recommend using the original packaging for shipping. Keep the packaging in case you need to send the product for repairs.

Content

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

- Flameproof PTZ camera
- Sunshield (2 for ExSite PRO EXLP)
- Sunshield spacers and screws
- Silicone sheath
- O-Ring spare
- Stopping plug (not KCs certified, <https://peppers.co.uk>).
- Sealant
- Cable ties
- Instruction manual
- Spare self tapping screw

Safely disposing of packaging material

The packaging material can be all 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.

Installation



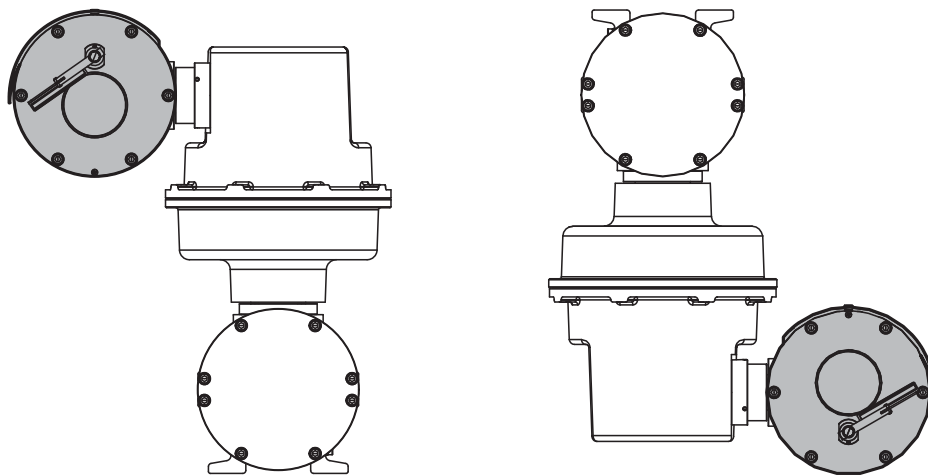
Before carrying out any type of maintenance, read the [Safety](#) chapter carefully in the product manual.

Pelco strongly recommend to test the device configuration and performance before putting it in the final installation site.

Installation options

It is possible to install the unit with several brackets. We strongly recommend using only approved brackets and accessories during installation.

The system can be installed only in a standard or inverted position (ceiling mount). When installed for inverted operation, the camera orientation and controller functions are reconfigured for normal operation through the system's software.



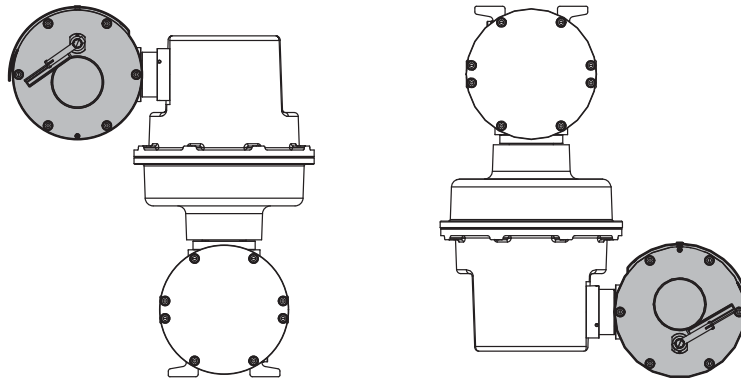


Figure 5: Installation options for all versions.

The housing has two position for sunshield: one for standard position and one for inverted position (ceiling mount).

Sunshield mounting

i Remove the protective film before the sunshield installation (if present).

Fix the sunshield to the housing using the screws and spacers (provided) into the upper body of the housing.

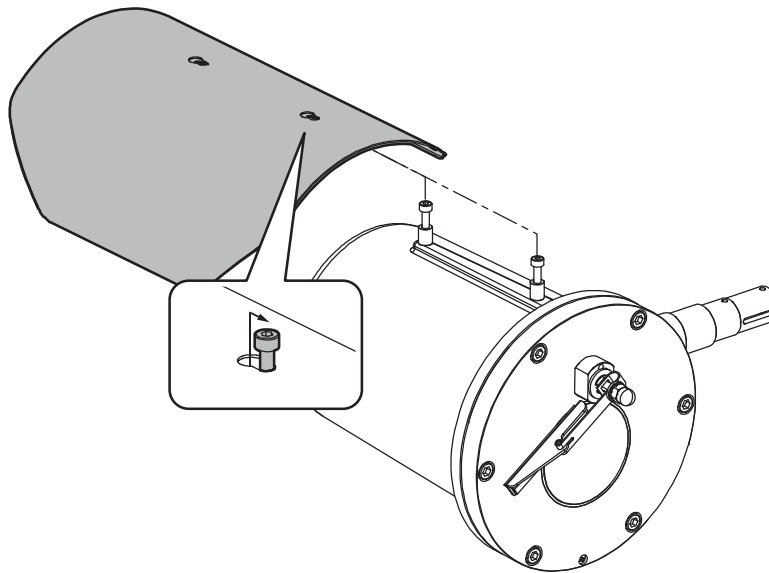


Figure 6: Sunshield installation.

! Pay attention to the fixing. Tightening torque: 2Nm.

Equipotential bonding connection

The equipotential bonding connection on the device must be completed using an external cable with a minimum 4mm² section (11AWG).

Connect the equipotential bonding cable with the eyelet terminal supplied. The eyelet terminal is suitable for cables with 4mm²(11AWG) up to 6mm²(9AWG) section.

Fasten the eyelet using the M5 screw and lock washer supplied.

Specifications of the M5 screw:

- Diameter/Screw pitch: M5
- Material: A4 Class 70
- Screw head: ISO 4762
- Length: 8mm (0.3in)
- Yield stress: 450N/mm²

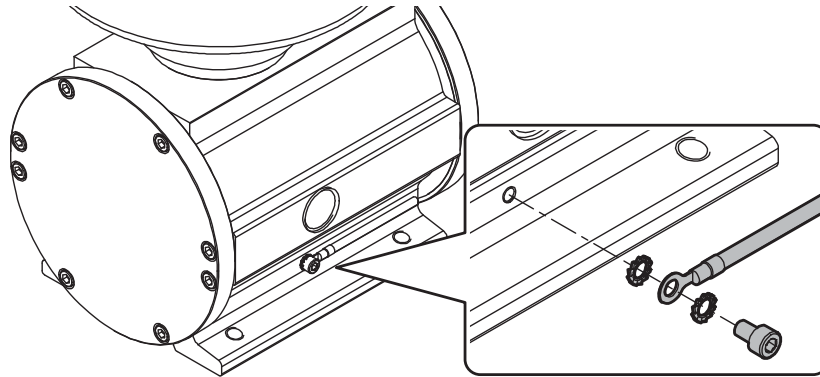


Figure 7: Equipotential bonding connection.

Washers DIN 6798 properties:

- Diameter: 5mm
- Material: A4

Opening of the junction box



During opening and closure operations of the product, pay attention not to damage the flameproof joint.

The unit has no.2 3/4" NPT cable entries (or M25 special version).

The plastic plugs are only used for shipping purposes and must not be used during operation.

Identify the junction box lid: it is the closest to the cable entry labeled with "OPEN THIS SIDE". Unscrew the fixing screws and remove the junction box lid.

Be aware that the lid is connect with an earthing equipotential cable to the connector J4 of connector board ([BOARD DESCRIPTION](#)).

The lid earthing equipotential cable is mandatory: don't remove it.

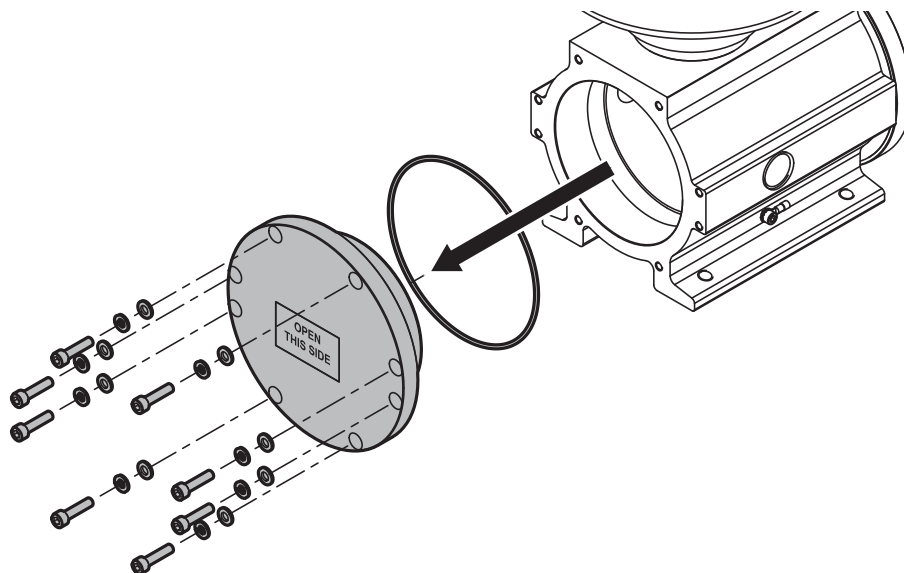


Figure 8: Opening of the junction box.

Connector board description

BOARD DESCRIPTION		
Connector	Function	Terminals - Nominal section of the cables used
J1	Power supply line	from 0.2mm ² (24AWG) up to 2.5mm ² (13AWG)
J9	Alarms, Remote reset and Relays	from 0.2mm ² (24AWG) up to 1.0mm ² (17AWG)
J12	24Vdc integrated power supply for washing system	from 0.2mm ² (24AWG) up to 1.0mm ² (17AWG)
F1	Fuse 1	
RJ45	Ethernet connector RJ45	<i>Connection via RJ45</i>
SFP	SFP connector	<i>Connection via SFP</i>
DIP	DIP Switch	
J4	Junction box lid earthing equipotential connection	<i>Junction box closing</i>

Table 3: Connector board description.

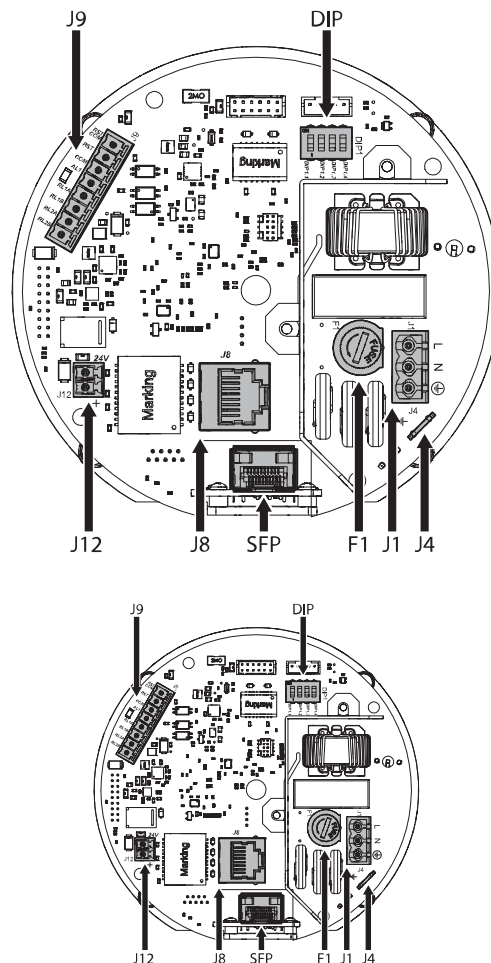


Figure 9: Connector board.

Connection of the safety earthing

! The safety earth cable must be about 10mm longer than the other two power supply cables, so that it cannot be accidentally disconnected if pulled.

i The safety earth cable section must be equal or greater than the section of the power supply cables.

The safety earth cable must be connected to the internal connector.

Connecting the power supply

The power supply voltage is indicated on the product identification label (*Connector board description*):

- From 100Vac up to 240Vac, 1.2A, 50/60Hz, +/-10%

i The power supply cable must be covered by the silicone sheath (01) supplied. The silicone sheath must be fastened with the corresponding cable tie (02). For installations according to UL/CSA standards, pass the power supply cable through the cables input on the right (03), as indicated in the figure.

i If using the Pelco multipolar cable and a fibre optic cable, you are advised to use the right cables input (03) for the multipolar cable and the left cables input (04) for the fibre optic.

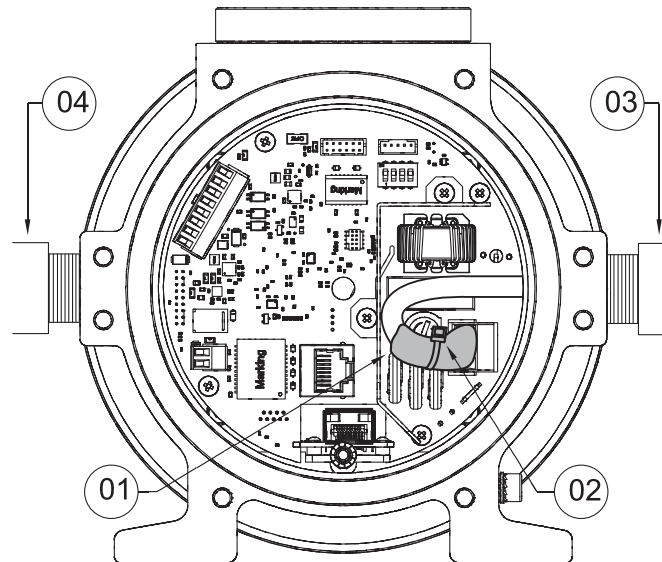


Figure 10: Connection compartment.

Extract the removable power line connector from the connector board (J1, [Connector board description](#)). Connect the electrical power cables as indicated in the relevant table ([BOARD DESCRIPTION](#)).

! Check that the power supply socket and cable are adequately dimensioned.

Connect the removable power line connector to the connector board (J1, [Connector board description](#)).

Connecting the power supply (from 100Vac up to 240Vac)

CONNECTING THE POWER SUPPLY	
Color	Terminals
Blue	N (Neutral)
Brown	L (Phase)
Yellow/Green	⊕ Protection Earth

Table 4: Power supply from 100 Vac up to 240 Vac.

Connecting alarms, remote reset and relays

! All signal cables must be grouped together by means of a cable tie.

CONNECTION OF THE ALARM INPUTS AND RELAYS			
Connector	Terminals	Function	Technical data
J9	AL1, COM	Self-powered alarm input fitted in the common terminal	Auto-powered from 12Vdc up to 18Vdc 200m max
	RST, RST	Remote reset	200m max
	RL1A, RL1B	Dry output contacts, can be activated by alarm or by user control	1A, 30Vac/30Vdc max
	RL2A, RL2B	Contact for washer pump activation	1A, 30Vac/30Vdc max
J12	24Vdc	24Vdc integrated power supply for washing system	12W max

Table 5: Connection the alarm input s and relays.

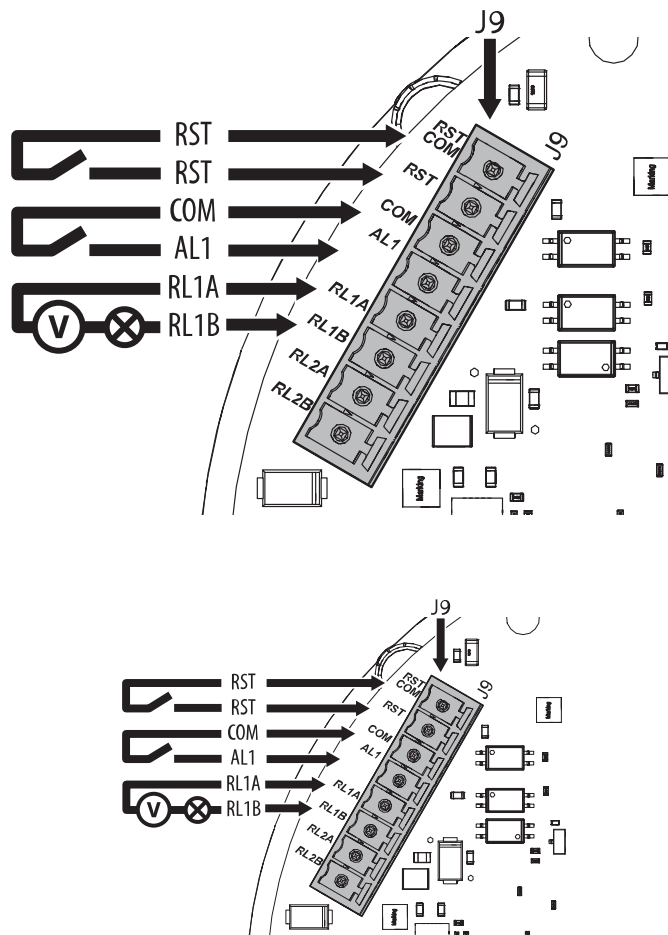


Figure 11: Connection of IO.

Connecting an alarm with dry contact

Connect terminals AL1 and COM to connector J9 as shown in the image ([Connector board description](#)).

Maximum length of the alarm cables: 200m (656ft).

Use a shielded cable to carry out the connection.

Connecting the remote reset

Connect the two RST terminals on connector J9 as illustrated in the figure ([Connector board description](#)).

Maximum cable length: 200m (656ft).

Read the Factory Default chapter to find out how to use the remote reset ([Maintenance](#)).

Relays RL1 connection

 Maximum relay voltage and current: read the technical data in the [CONNECTION OF THE ALARM INPUTS AND RELAYS](#).

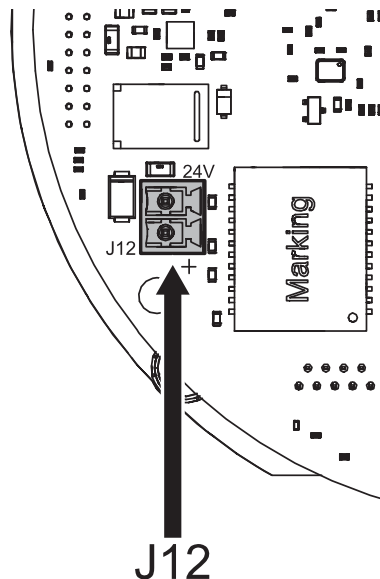
RL1 is configurable for general purpose use. Connect terminals RL1A, RL1B to connector J9 as shown in the image ([Connector board description](#)).

Washing system connection

The device can be equipped with a washing system as an accessory. The washing system can be powered by its integrated power supply or alternatively by an external power supply.

Integrated power supply connection

To use the washing system power supply integrated in the device, connect the solenoid valve of the washer valve directly to terminals of connector J12 ([Connector board description](#)).



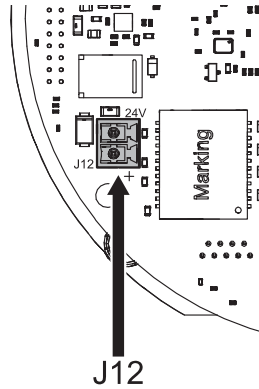


Figure 12: Connection board J12.

External power supply connection

To use an external power supply for the washing system, use the dry contact of the relay (RL2, for use with the washing system only). Connect the terminals to the power supply circuit (RL2A, RL2B, J9 [Connector board description](#)).

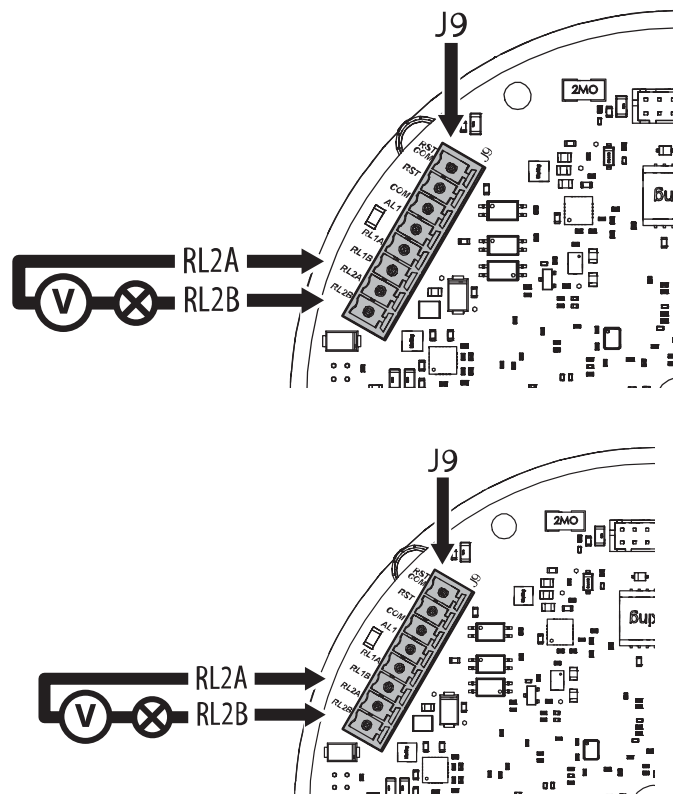


Figure 13: Connection of washer.

Washer installation

Shorten the semi-rigid washer pipe (01) as needed. Unscrew the nut (02) from the joint and slide it along the pipe. Insert the end of the pipe into the spinner (03).

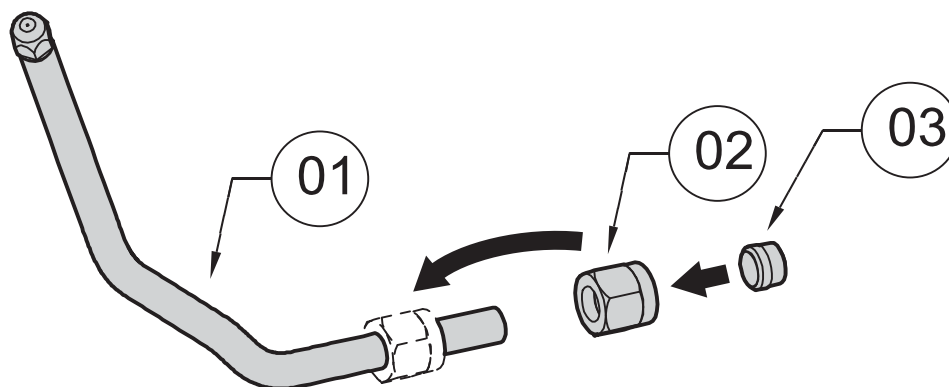


Figure 14: Pipe length adjustment and insert.

Lock the nut to the coupling.

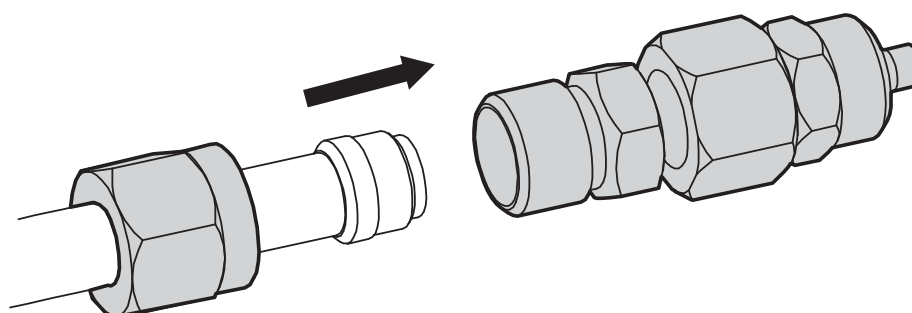
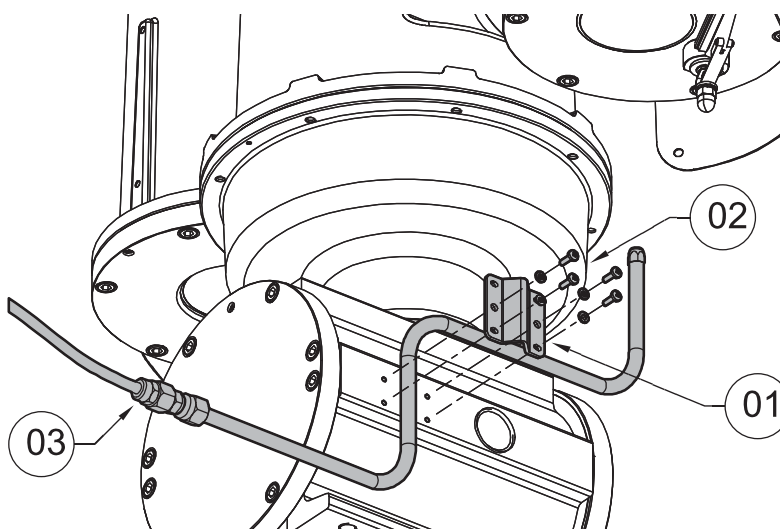


Figure 15: Tighten the nut.

Fasten the pipe to the washer support using the bracket (01), the screws and the washers (02) provided. Connect the supply pipe (03).



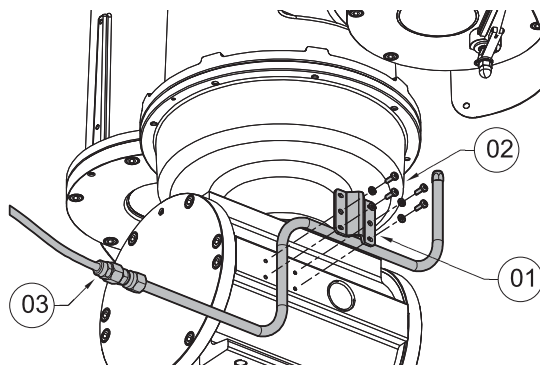


Figure 16: Washer installation.

To calibrate the jet, orientate the nozzle towards the window of the housing.

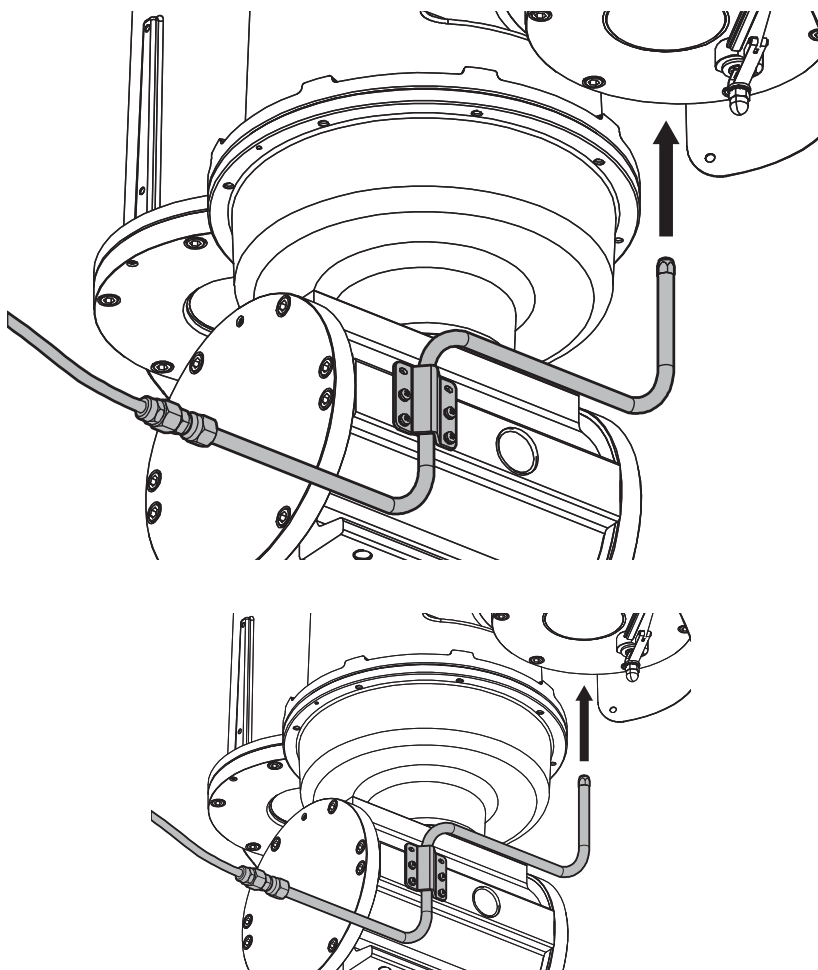


Figure 17: Pipe setting.

Ethernet connection

The product is equipped with an integrated Ethernet switch that manages a RJ45 port and a slot for SFP modules.

Connection via RJ45

 Make connections in accordance with the TIA/EIA-568-B standard.

Connect the Ethernet cable to port RJ45 ([Connector board description](#)).

Use of Ethernet cables with the following characteristics is highly recommended:

- STP (isolated)
- Category 5E or category 6

Use a shielded RJ45 connector on both ends of the cable. The Ethernet cable shield (user side) must always be earthed via the connector.

Connection via SFP

 The optical modules compliant with the SFP (Small Form Factor Pluggable) standard are conversion devices of the electrical to optical signal and the optical to electrical signal.

The SFP module must be suitable for the installation system. Consult the SFP module manual for the relevant specifications.

The SFP module for optic fiber (not supplied by Pelco) must meet the following requirements:



- Laser: Class 1, complies with EN60825-1
- UL/IEC 62368-1 Certification



The user switch, connected via the SFP module, must work at a speed of 100Mbps. Check the settings of the switch to which the product is connected.



Pelco has tested various types of SFP modules. For further information please contact the Pelco service center.

Insert the SFP module (not supplied) in the SFP slot ([Connector board description](#)).

Junction box closing



Before closing the lid, check the integrity of the O-ring gasket. If the gasket is damaged, replace it with the one supplied ([Replacing the gasket](#)).

Verify that there is no dirt or debris.

Arrange the cables so that there is no interference when closing the junction box.

Place the lid to close the junction box and screw the fastening screws.



Pay attention to the tightening of the screws. Tightening torque: 10Nm.

Verify the integrity of connection of lid earthing equipotential cable to the connector J4 of connector board ([BOARD DESCRIPTION](#)).

Screws properties

- Diameter/Screw pitch: M6
- Material: A4 Class 80
- Screw head: ISO 4762
- Length: 25 mm
- Yield stress: 600 N/mm²

Washers DIN 127 B properties:

- Diameter: 6mm
- Material: A4

Washers ISO 7089 properties:

- Diameter: 6mm
- Material: A4

Switching on



Before carrying out any type of maintenance, read the "Safety rules" chapter carefully in the product manual.



The automatic pre-heating (De-Ice) process could be started whenever the device is switched on and the ambient temperature is below -10°C (+14°F). The procedure is necessary to guarantee correct operation of the devices even at low temperatures. The duration ranges depending on environmental conditions (from 60 minutes up to 120 minutes).

The unit is switched on by connecting the power supply.

It takes a few minutes for the unit to become fully operational after it is switched on.

To switch off the unit disconnect the power.

Configuration

Default IP address

The unit is configured to obtain an IP address from a DHCP server. The IP address obtained via DHCP is visible in the DHCP server log file.

If a DHCP server is unavailable, the unit automatically configures itself with a self-generated IP address in the 169.254.x.x/16 subnet, using the IP address of the PC belonging to the same subnet (example: IP address: 169.254.1.1, subnet mask: 255.255.0.0). Then use an ONVIF-compliant video management system (VMS) or a network scanning utility (or network sniffer) to find the IP address of the device (IP scan utility).

Web interface

The device is configured using a web interface accessed using a web browser. From a PC connected to the same network as the camera, use a web browser to connect to the web address: <http://IP address>.

On first access, the Home page is displayed.



Info: For detailed configuration instructions, consult the EXSITE® PRO PTZ SERIES Operations manual available on the product web page of the website www.pelco.com.

Maintenance



Before carrying out any type of maintenance, carefully read the [Safety](#) chapter in this manual.

When contacting the manufacturer for assistance provide the serial number and the identification code of the model. Use only manufacturer original spare parts.

Routine maintenance

Inspecting the cables

The cables must not show signs of damage or wear, which could generate hazardous situations. In this case extraordinary maintenance is necessary.

Replacing the gasket

Replace the junction box lid gasket using the one supplied.

Open and close the junction box lid as described in the previous chapters.

Replace the gasket, ensuring it is correctly positioned.

Replacement of the wiper blade

Unscrew the rivet nut fastening the blade and remove it with the washers. Replace the worn blade with a new one. Apply a good quantity of threadlocker (Loctite 270), reposition the rivet nut and the washers by adjusting fastening until the blade touches the glass properly. Activate the wiper to check that the blade is correctly adjusted.

Extraordinary maintenance

Factory Default



If the access password is no longer available, follow the procedure to reset to default factory settings.

To restore the factory settings relative to the network, user access and camera configuration follow this procedure:

- Switch off the unit.
- Open the junction box.
- Set ON DIP 1 of DIP switch.
- Power the unit.
- Wait for 2 minutes.
- Switch off the unit.
- Set OFF DIP 1 of DIP switch.
- Close the junction box.
- Power the unit.

It is also possible to perform the reset in remote mode. Follow the procedure below:

- Switch off the unit.
- Connect the RST contacts of connector J9 ([Connector board description](#)).
- Power the unit.
- Wait 30 seconds.
- Disconnect the RST contacts.
- Wait for 2 minutes.
- Switch off the unit.
- Power the unit.



Once the factory default procedure has finished, you need to configure the unit as described in chapter: [Configuration](#).[Configuration](#)

Inserting a SD card

The device can be equipped with a Video Speed Class microSD memory card. A microSD card with a minimum V10 (VideoSpeed Class 10) or better and at least 64GB of storage is recommended.

If the microSD card does not meet the recommended capacity or write speed, the performance of the onboard storage may suffer and result in the loss of frames or footage.

Identify the day/night camera housing lid with glass window and wiper.

Unscrew the fixing screws and remove the housing lid.

Specifications of the M6 screw:

- Diameter/Screw pitch: M6
- Material: A4 Class 70
- Screw head: ISO 4762
- Length: 16mm (0.6in)
- Yield stress: 450N/mm²

Specifications of the M3 screw:

- Diameter/Screw pitch: M3
- Material: A2 Class 70
- Screw head: self tapping
- Length: 16mm (0.6in)
- Yield stress: 450N/mm²

Remove the housing lid with day/night camera module.



Be careful not to damage the flat cables.

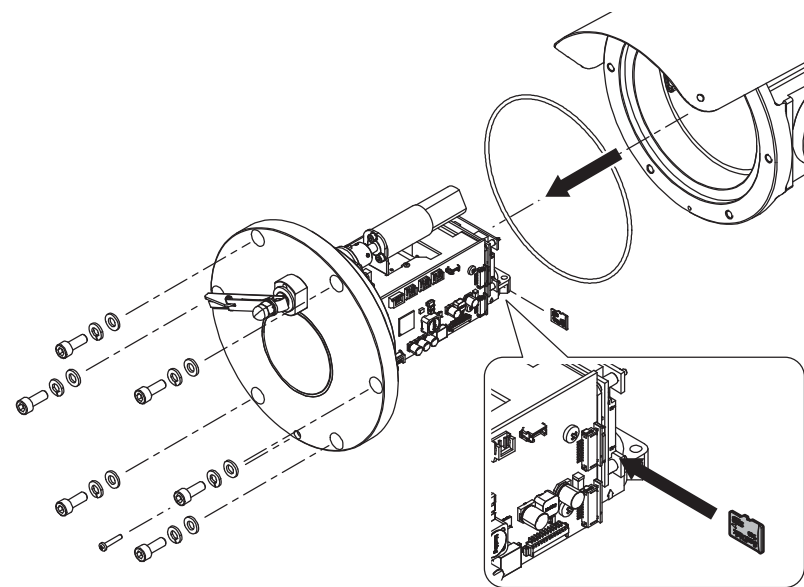


Figure 18: Insert the SD card.

Insert the memory card into the slot as indicated. Pay attention to the orientation of the memory card.

Housing closing

- i** Before closing the camera housing lid, check the integrity of the O-ring gasket.
If the gasket is damaged, replace it with the one supplied.

Verify that there is no dirt or debris.

Place the lid to close the housing and screw the M6 fastening screws.

- i** Pay attention to the tightening of the screws. Tightening torque: 10Nm.
Screw in the M3 fixing screw until it is in place.

Fuses replacement

- !** **CAUTION!:** To ensure protection against the risk of fire, replace the fuse with one the same type and value. The fuse must only be replaced by qualified staff.

- i** To maintain cULus Listed certification, the fuse must be UL Listed (OMEGA GT520222, BUSSMAN S507).

If necessary, replace the fuse illustrated in figure ([Connector board description](#)).

FUSES REPLACEMENT	
Supply voltage	Fuse (F1)
100-240Vac 50/60Hz	T 2A H 250V 5x20

Cleaning

- !** Before carrying out any type of maintenance, read the "Safety rules" chapter carefully in the product manual.

 Cleaning frequency will depend on the type of environment in which the product is used.

Routine cleaning

Cleaning the glass window

Cleaning must be done with mild soap diluted with water.

Cleaning the germanium window

 When cleaning the window, take care not to scratch or damage the carbon-coated outer surface . Damage to this coating may interfere with the transparency of the surface to infrared light.

 Always ensure the protection grid is installed when the device is working. Failure to follow this instruction may create serious safety hazards for people and for the installation, and will also invalidate the warranty.

Cleaning must be done with mild soap diluted with water.

Identify the thermal camera housing with protective grid for germanium window.

Unscrew the protective grid fixing screws and remove the protective grid.

Specifications of the M4 screw:

- Diameter/Screw pitch: M4
- Material: A4 Class 70
- Screw head: ISO 7046
- Length: 10mm (0.39in)
- Yield stress: 450N/mm²

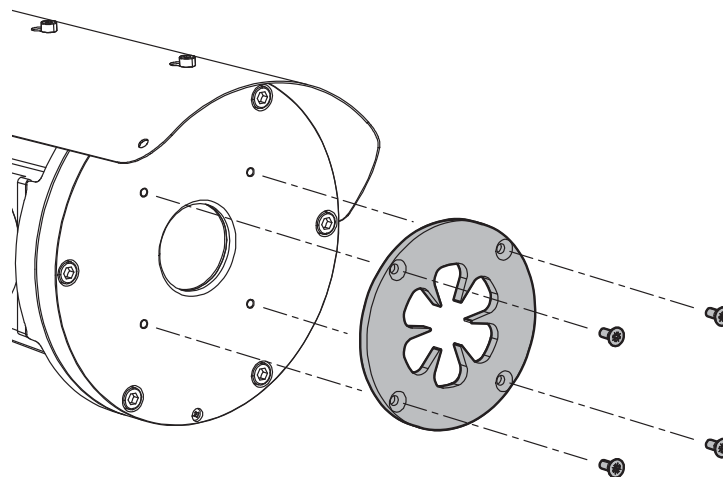


Figure 19: Cleaning the germanium window.

After cleaning is completed, reassemble the protection grid.

 Pay attention to the tightening of the screws. Tightening torque: 2Nm.

Cleaning the product



The outside surface of the product must never be covered in more than 5 mm of dust.



The cleaning of the product must be carried out according to the instructions in this chapter in order to prevent accumulation of electrostatic charges.

The device must be cleaned using a damp cloth; compressed air must not be used.

Information on disposal and recycling

The European Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE) mandates that these devices must not be disposed of in the normal flow of municipal solid waste, but they must be collected separately in order to optimize the recovery stream and recycling of the materials that they contain and to reduce the impact on human health and the environment due to the presence of potentially hazardous substances.



The symbol of the crossed out bin is marked on all products to remember this.

The waste may be delivered to appropriate collection centers, or may be delivered free of charge to the distributor where you purchased the equipment at the time of purchase of a new equivalent or without obligation to a new purchase for equipment with size smaller than 25cm (9.8in). For more information on proper disposal of these devices, you can contact the responsible public service.

Troubleshooting

 Before carrying out any type of maintenance, read the [Safety](#) chapter carefully in the product manual.

 Contact an authorised support centre if the problems persist or you have any other issues that are not described here.

Problem	The product does not go on.
Cause	Wiring error, blown fuse.
Solution	Check the wiring. Check the fuses and replace them if necessary.

Problem	The shooting area do not correspond to the selected preset position.
Cause	Loss of absolute position reference point.
Solution	Reset the equipment by switching off and on again.

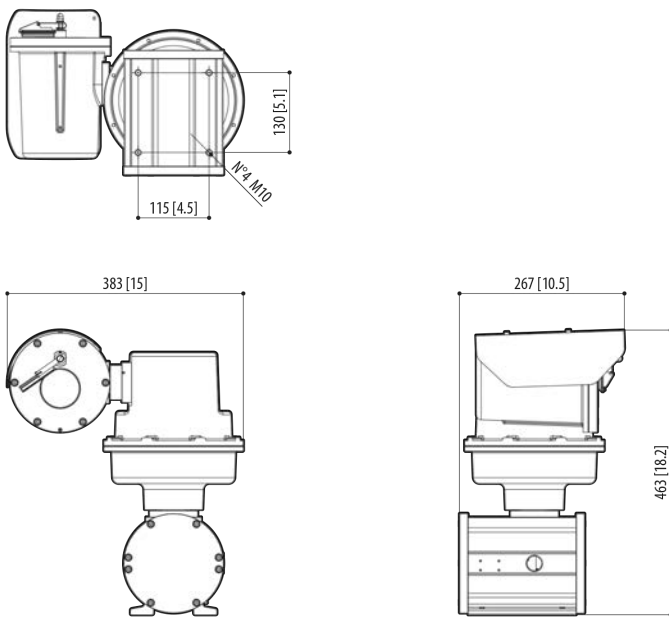
Problem	The device does not move during the start-up phase.
Cause	The ambient temperature is too low.
Solution	Wait until the end of the pre-heating procedure.

Problem	The illuminator reduces in intensity or switches off.
Cause	In high ambient temperatures, the illuminator automatically reduces the brightness flow.
Solution	Do not intervene. When the ambient temperature drops, the system will automatically restart the illuminator.

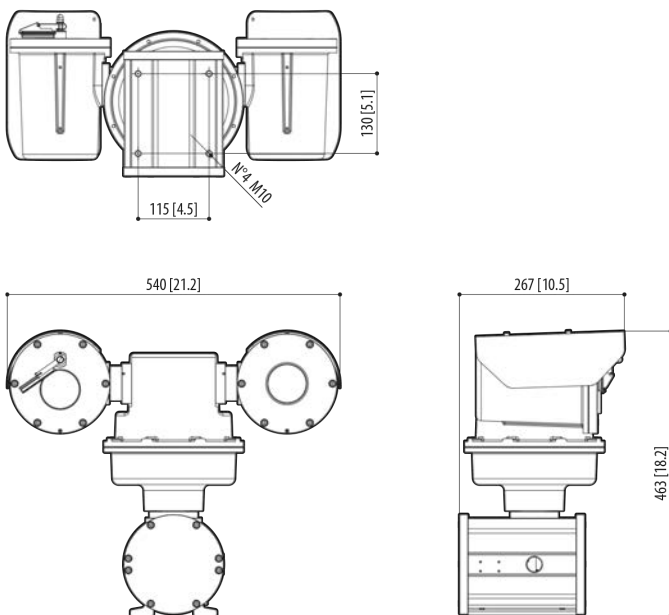
Technical drawings

i The indicated measurements are expressed in millimeters, values in parentheses are inches.

EXPP



EXPL





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