

EXPRO1CABLARM Installation Manual

Multipolar cable with IP66 barrier cable gland for connection of the ExSite Pro Series explosion-proof PTZ cameras

1 About this manual

 **Read all the documentation carefully in the packaging or associated before installing and using this product.**

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

1.1 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.

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

3 Safety rules

 **CAUTION! Device installation and maintaining must be performed by specialist technical staff only.**

- 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.
- Before starting any operation, make sure the power supply is disconnected.
- Be careful not to 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 marking label, page 2).
- The equipment is intended for installation in a Restricted Access Area by specialist technical staff.
- Make all connections, installation and maintenance work in a non-explosive atmosphere.
- Electrical connections must be performed with the power supply disconnected and the circuit-breaker open.
- Comply with all the national standards during the device installation.
- The external multipolar cable shield (armour) must be earthed.

4 Identification

4.1 Product description and type designation

Multipolar cable with IP66 barrier cable gland for connection of the ExSite Pro Series explosion-proof PTZ cameras.

4.2 Product marking label

Check the label on the product packaging.

5 Preparing the product for use



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



The product must not be dismantled or tampered with. The only exceptions are those concerning the assembly and maintenance operations stipulated in this manual.

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.

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.

5.2 Contents

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

- Multipolar cable with barrier cable gland
- Cable gland manufacturer's manual
- Instruction 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.

6 Installation



Make all connections, installation and maintenance work in a non-explosive atmosphere.



Electrical connections must be performed with the power supply disconnected and the circuit-breaker open.



Never, under any circumstances, make any changes or connections that are not shown in this handbook. Failure to follow the connection instructions that are given in the handbook may create serious safety hazards for people and for the installation.



Do not change the wiring in the product as it is supplied to you. Failure to follow this instruction may create serious safety hazards for people and for the installation, and will also invalidate the guarantee.



Keep the connection diagram for future reference.

6.1 Multipolar cable connection



To avoid damaging the cables, insert them one at a time using the cable input.



Consult the product manual for all the operations for opening and closure of the connections compartment and the cable inputs.

Remove the safety plug of the cable input (01). Identify the connections compartment cover: it is the closest to the cable entry labeled with "OPEN THIS SIDE". Unscrew the fixing screws and remove the cover (02).

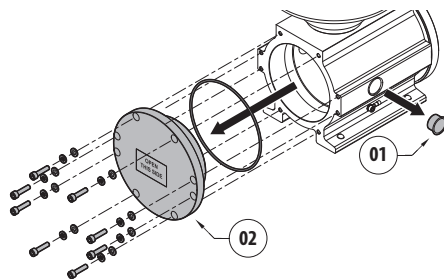


Fig. 1

To facilitate assembly, loosen the cable gland following the instructions provided in the manufacturer's manual.

Pass the conductors through the cable input with the respective connectors. Insert in order:

- the cable bundle with the six-pole connector (which should be slightly tilted);
- the bundle with the two-pole connector;
- the power supply cables;
- the Ethernet cable.



The cables must not be twisted during cable gland tightening.



To maintain the product degree of IP, apply sealant to the threads, in compliance with IEC/EN60079-14.

Re-assemble the cable gland, fixing it to the product, following the instructions provided in the manufacturer's manual.

Connect the Ethernet cable, the I/O and power supply cables to the boards in the connections compartment.



Consult the use and installation manual of the product for further information.

Close the connections compartment.

6.2 Multipolar cable description

Connect the connectors and the free ends of the multipolar cable as described in the table.

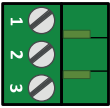


The shielding of the I/O cable must be grounded.

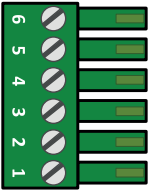


Electrically isolate all unused cables.

POWER SUPPLY CABLE

Function	Type of connector	Position	Description	Colour/Number	Notes
Power supply	3 pole 	1	Phase (L)	Black/1	-
		2	Neutral (N)	Black/2	-
		3	Earth	Yellow-Green	The safety earthing system must be carried out according to local installation dispositions

Tab. 1

I/O CABLE					
Function	Type of connector	Position	Description	Colour	Notes
Reset, alarm, relay	6 pole 	1	Relay 1, Terminal B	Grey	-
		2	Relay 1, Terminal A	Brown	-
		3	Alarm 1	Red	-
		4	GND	Green	-
		5	Reset	White	-
		6	GND	Yellow	-
Washer pump activation	2 pole 	1	Relay 2, Terminal B	Blue	External power supply connection (J9)
			24Vdc		Integrated power supply connection (J12)
		2	Relay 2, Terminal A	Pink	External power supply connection (J9)
			GND		Integrated power supply connection (J12)
Protection from interference	-	-	Tinned copper braid shielding	-	The shielding must be grounded.

Tab. 2

ETHERNET CABLE					
Function	Type of connector	Position	Description	Colour	Notes
Ethernet	RJ45 (8P8C)	Standard EIA/TIA 568-B	-	-	Shielded connector

Tab. 3

7 Information on disposal and recycling

The European Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE) mandates that these devices should not be disposed of in the normal flow of municipal solid waste, but they should 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.

8 Technical data

8.1 General

Armoured, multipolar, assembled, black cable with barrier cable gland 3/4" NPT

8.2 Mechanical

Length: 4m (13.1ft) or 10m (32.8ft)

External diameter: 20.5mm (0.8in) ± 0.5mm (0.02in)

Diameter under armature: 16mm (0.63in)

Minimum bending radius: 184.5mm (72.6in)

Colour: black

Type of laying: fixed installation

8.3 Electrical

Power cable

- Number of conductors: 3
- Section: 2.5mm² (13AWG)

Shielded I/O cable

- Number of conductors: 8
- Section: 0.34mm² (22AWG)

8.4 Network

Ethernet cable

- External diameter: 6.6mm (0.3in)
- Section: 4x2x0.20mm² (24AWG)
- Category: 5e
- Shielding: SF/UTP

8.5 Environment

For indoors and outdoors installation

Operating temperature: from -60°C (-76°F) up to +105°C (+221°F)

8.6 Certifications

Oil resistant: complies with CNOMO E.03.40.150N, ASTM n.2, IRM 902, VDE 0472 p.803 test B

UV resistant: complies with IEC60068-2-5

Resistance to flame spread: complies with IEC/EN60332-1, IEC/EN60332-3-22, IEC/EN 60079-14 (ATEX Ex II)

RoHS (CE): complies with 2015/863/EU



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