

ExCam[®] IPP5655

User Manual



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1 Introduction

In the ExCam IPP5655 is a powerful IP dome camera of the latest generation, with 2-megapixel resolution at 1920x1080p points. It is certified by ATEX, IECEx & EAC-Ex (and more). This dome camera can endlessly rotate around its own axis. This is done with a high speed and precision.

The ExCam series is certified both in accordance with the European (ATEX) and international directive (IECEx). The explosion-protected housing is approved for the ATEX group II for zones 1, 2, 21 and 22 including the explosion groups IIC / IIIC. To see other approvals, please visit our website at www.samcon.eu

In designing the ExCam IPP5655, we attached a very high importance to safety, mechanical precision and high quality of stainless steel.

2 Technical data

2.1 Explosion protection

Identification marks

acc. to Directive 2014/34/EU:

 II 2G (zone 1 and 2)

 II 2D (zone 21 and 22)

Explosion protection (gas):

Ex db IIC T6 Gb

Explosion protection (dust):

Ex tb IIIC T80°C Db

Protection class:

IP 68 (IEC /EN 60529)

Transport/storage temperature:

-40°C...+50°C

Ambient temperature (EX):

-20°C...+60°C (Type...N.H...)

-50°C...+60°C (Type...LL.H...)

Named testing laboratory:

TÜV Rheinland (number 0035)

EU type approval certificate:

TÜV 18 ATEX 8218X

IECEx Certificate of Conformity:

IECEx TUR 18.0023X (2018)

EAC-Ex TUR Report:

RU C-DE.HA65.B.01652/22

Other certificates:

see <https://www.samcon.eu/en/products/network/excam-ipp5655>



Attention!

The instructions stated on the type plates have to be observed!

2.2 Illustration of the model key

| 1) Ex product- name | 2) Type | 3) Housing- combination | 4) Temp.- range | 5) Cable length [m] | 6) Cable termin. |
|---------------------------|------------|-------------------------------|-----------------------|---------------------------|------------------------|
| ExCam IPP5655 | T08- | TNXCD- | N.H- | 005.N- | P- |
| | T08- | TNXCD- | N.H- | 005.N- | T- |
| | T08- | TNXCD- | LL.H- | 005.N- | P- |
| | T08- | TNXCD- | LL.H- | 005.N- | T- |

Tab.2-1 – Model key

Explanations:

- 1) **ExCam IPP5655 =** Functional camera description of the ExCam Series (technical data/
specification of the individual camera module)
- 2) **T08 =** SAMCON Production- Type 08
- 3) **TNXCD =** Dome-housing (stainless steel 1.4404)
- 4) **N.H =** Normal ambient temperature range, no heater installed ($T_{amb} \geq -20^{\circ}\text{C}$)
N.H= High temperature battery installed ($T_{amb} \leq +60^{\circ}\text{C}$)
LL.H= PTC heater installed ($T_{amb} \geq -50^{\circ}\text{C}$)
- 5) **005.N =** Length of the connection line in meter at delivery; 5m is the
standard cable length, max. cable length is: 003...100 [m]
005.N = Non armoured cable
- 6) **P =** Plug- termination (standard)
 CAT6, RJ-45 network plug (heavy duty), AWG 26-22,
 contact assignment acc. To specification EIA/TIA-568B
- T =** Terminal Box termination (optional)
 4 x PoE Mode A connection (camera PoE)
 24VDC (Heater) (see chapter electrical connection)

2.3 Electrical parameters of the camera

24VDC Power input:

| | |
|--------------------------------|--|
| Permissible temperature range: | $-50^{\circ}\text{C} < T_{\text{amb}} < +60^{\circ}\text{C}$ |
| Power supply: | 24 VDC |
| Power consumption: | approx. 60W@-50°C (depends on the temperature) |

PoE+ Power input:

| | |
|--------------------------------|--|
| Permissible temperature range: | $-20^{\circ}\text{C} < T_{\text{amb}} < +60^{\circ}\text{C}$ |
| Power supply: | PoE, IEEE 802.3at class 4 |
| Reference voltage: | 48 VDC (44...54 VDC) |
| Maximum power consumption: | 19 W |
| Typical power consumption: | 10.5 W |

2.4 Connection cable Ex-d - Ex-e

| | |
|----------------|--|
| Description: | Data transfer and power supply of the camera module (compliant with DIN EN 60079-14), |
| Jacket colour: | green (GN), similar to RAL3001 |

2.4.1 Connection cable for models -N- (SKD02-T)

Systemcable SKD02-T:

| | |
|-------------------|--|
| Outside diameter: | $8.9 \pm 0.3 \text{ mm}$ |
| Bending radius: | $8 \times D_a$ when installed and $4 \times D_a$ after relocation |
| Data line: | 4 x 2 x AWG23/1 CAT.6 |
| Properties: | PUR halogen-free, flame-retardant, UV-resistant, chemical resistance, shielded |

Quick link:

https://www.samcon.eu/fileadmin/documents/en/60-Assembling%26mounting/SKD02-T_Datasheet.pdf

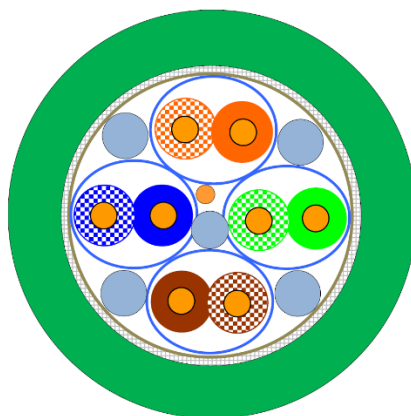


Fig. 2-1 Sectional view of SKD02-T

2.4.2 Connection cable for models with heater (SKDP03-T)

Systemcable SKDP03-T:

| | |
|-----------------------|--|
| Outside diameter: | 12.40 ± 0.3 mm |
| Bending radius: | 8 x D _a when installed and 4 x D _a after relocation |
| Data line: | 4 x 2 x AWG23/1 CAT.6 |
| Performance elements: | 3G1.5 (BK-BU-GN/YE) |
| Properties: | PUR halogen-free, flame-retardant, UV-resistant, chemical resistance, shielded |

Quick link:

https://www.samcon.eu/fileadmin/documents/en/60-Assembling%26mounting/SKDP03-T_Datasheet.pdf

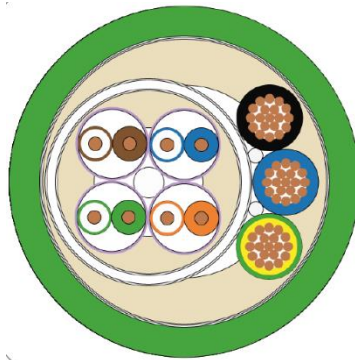


Fig. 2-2 Sectional view of SKDP03-T

2.5 Video-technical characteristics

We use the AXIS P5655 Dome Camera in a pressure-resistant enclosure. For details, please refer to the Product Documentation, video-technical data of AXIS®:

<http://www.axis.com/products/axis-p5655-e>



2.6 Other technical data

| | Camera (Ex-d) | Terminal box (Ex-e) |
|--|---|----------------------|
| Permissible ambient temperature | -20°C ... +60°C (for PoE+ power supply) -50°C ... +60°C (at 24 VDC power supply) | -60°C ... +55°C |
| Protection class as per EN 60529/IEC 529 | IP68 (Test conditions: 24h/3m water column 5°C°) | IP66 |
| Housing material | - stainless steel, mat. no. 1.4404 - LEXAN | polyester resin |
| Weight | about 15.5 kg | about 1 kg |
| Dimensions | D195mm x 378mm | 145mm x 145mm x 71mm |

Tab. 2-2 Other technical data

3 Safety Instructions



Please absolutely observe the safety directions stated in the Ex-installation instructions of the T08 ExCam series!

Quick link:

<https://www.samcon.eu/fileadmin/documents/en/22-Ex-Network-Cameras/ExCam-Series-T08-EX-Installation-Manual-2022.pdf>

It is absolutely mandatory to observe the national safety regulations and regulations for prevention of accidents, as well as the safety instructions given below in this User Manual!



Attention!

Cameras of the type T08 ExCam are not suitable for use in zone 0 and zone 20. The ambient temperature, temperature class and explosion group as stated on type plate must be observed! Alterations are not permitted! The camera is to be operated in sound conditions and in the intended way.



Attention!

Only original parts of SAMCON Prozessleittechnik GmbH may be used for repairs. Repairs concerning the explosion protection may only be carried out in accordance with the nationally applied regulations and by SAMCON Prozessleittechnik GmbH.



Attention!

Prior to installation, take external sources of heat or cold into account! The temperature ranges prescribed for storage, transport and operation must be adhered to!



Attention!

Observe the warnings given on the type plate:

“WARNING – DO NOT OPEN IN HAZARD AREAS“

“WARNING – DO NOT OPEN WHILE ENERGIZED“



The use in hazardous areas with regard to temperature and dust layers is defined in the respective national regulations.



When installing the ExCam, adhere to the requirements of the EN/IEC 60079-14.

4 Installation

For erecting and operating the camera, the relevant national regulations, as well as the generally accepted rules of technology shall prevail. Before mounting the camera, thoroughly check it for any transport damage, especially regarding the housing and the cable. Installation, electrical connection and the commissioning must only be carried out by qualified specialists.

Work preparation:



Attention!

Prepare your work carefully and in accordance with the relevant regulations.



Attention!

Depending on classification of hazard areas, a work approval has to be obtained. When you open the pressure-resistant enclosure under voltage, it is absolutely necessary to prevent potentially explosive atmosphere!

To ensure the best image quality delivered by the network camera, plan the installation site carefully (consider light conditions, object distance or size, angle and minimum object distance to the focus).

- Use appropriate tools and aids
- When working, ensure a safe stand.
- Make sure that any static charge is avoided



Attention!

Please pay attention to the national security, installation and accident prevention regulations (e.g. DIN EN 60079-14) and the safety instructions given below in this User Manual, as well as the ones in the Installation Guidelines!



Attention!

Adhere to the provisions of the IECEx ATEX and EX installation instructions for mounting and starting up!

ExCam® IPP5655 consists of a flame-proof camera housing (Ex-d) and optionally (models with a terminal box ...-T), a terminal box of a high degree of safety (Ex-e). Both areas are separated by a reinforced 5 m line. Mount the camera as high as possible, according to the desired field of view.

Install the connection chamber so that a good accessibility is provided, in order to facilitate electrical connection.



Attention!

Please pay attention to the national and local regulations for mounting heavy loads. In case of doubt, take appropriate security measures.




Drawings for drill hole patterns and further information can be viewed on our product page:

Quick link:

<https://www.samcon.eu/en/products/network/excam-ipp5655/>



Option mounting accessories

| | | |
|----------------------------|---|--|
| Wall bracket WMB-... |  | <p>WALL MOUNT EXCAM TNXCD Wall bracket for the T08-TNXCD series Suitable for hanging the camera on walls. The scope of delivery includes a protective cover for the wall bracket. The cover protects the cable and cable routing as required by 60079-14 and does not let the cable and cable glands be directly exposed to water splashes. Material: stainless steel 1.4404 Load bearing: 45 kg Dimensions: 460 x 140 x 220 mm</p> |
| Pole adapter PMB-... |  | <p>POLE MOUNT EXCAM TNXCD TNXCD pole adapter for wall mount Material: stainless steel 1.4404 Suitable for pole diameters between 110 and 150 mm Load-bearing capacity: 50 kg</p> |
| Ceiling adapter CMB-... |  | <p>CEILING MOUNT EXCAM TNXCD TNXCD pole adapter for ceiling mount Material: stainless steel 1.4404 Load-bearing capacity: 50 kg</p> |

Tab. 4-1 Mounting Accessories

5 Electrical connection



Attention!

The electrical connection of the equipment must only be carried out by officially qualified and skilled personnel!



Attention!

It is absolutely necessary to ground the ExCam® series housing via the PA connection.



Attention!

The minimum length of the connecting cable must not be less than three meters! The connection cable must be protected!



Attention!

Please pay attention to the national security, installation and accident prevention regulations (e.g. DIN EN 60079-14) and the safety instructions given below in this User Manual, as well as the ones in the Installation Guidelines!

The ExCam® IPP5655 is equipped with an electrical connection cable of the type SKD02-T (models with the model key -N-) or SKDP03-T (models with model key -LL-) and optionally, a pre-assembled and pre-wired terminal box ExTB-3. The maximum transmission range from the camera to the next active network interface is 100 meters and can be individually specified by the client. The user is NOT authorised to do any electrical connection procedures inside the pressure-resistant enclosure.

5.1 Equipotential bonding/Grounding

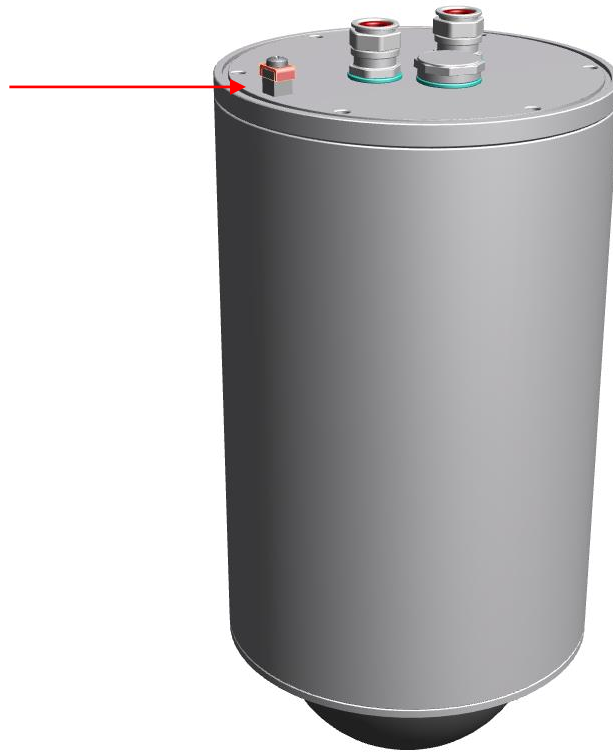


Fig. 5-1 ExCam IPP5655 equipotential bonding

Equipotential bonding/grounding of the camera body is absolutely necessary, in order to avoid static charges and formation of sparks. For this purpose, a screw terminal is provided at the rear side, at the bottom (right) (see Figure 5.1). The cross-section of the equipotential bonding should comply with the National Ground Rules (at least 4 mm²).

Wiring table:

| Potential | Colour (IEC 60757) | Cross-section | Comment |
|-----------|--------------------|---------------------------|---------|
| PA | GN/YE | 4 mm ² (rigid) | - |

Tab. 5-1 Equipotential Bonding

5.2 Connection work on the device (terminal box)

Possible terminations are: terminal box or plug.



Fig. 5-2 Camera (Ex-d) and terminal box (Ex-e)



Attention!
Never open the Ex-e terminal box under voltage!



Attention!
Adhere to the international installation regulations for connection chambers with increased safety (Ex-e).



Attention!
Adhere to attached separate Usual Manual for the Ex-e connection chamber.

Video Tutorial:

Observe our video tutorial:

“SAMCON 01 Installation and Wiring Connection to ExTB-3”
<https://go.samcon.eu/v01>



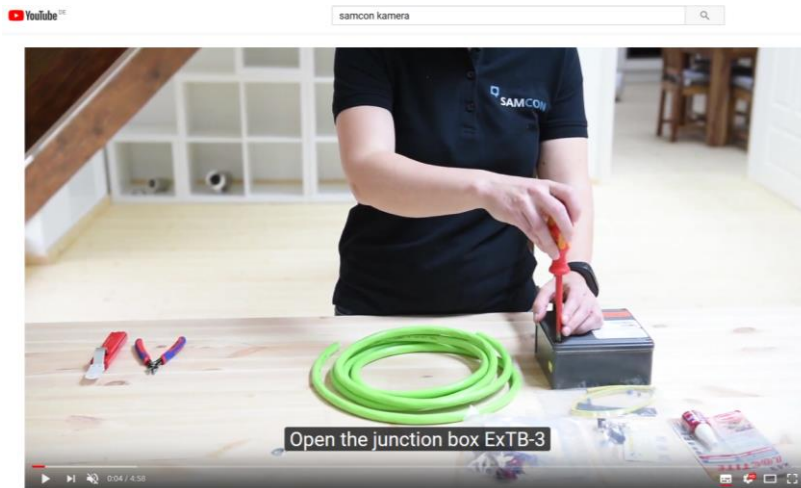


Fig. 5-3 Video Tutorial ExTB-3

The pin assignment of the SKD02-T is executed in accordance with the standard EIA/TIA-568B for 100BaseTX and 24VDC, as follows:

| Camera (Ex-d) (T568B) | Colour SKD02-T (IEC60757) | Terminal ExTB-3 | Cross-sectional surface | Comment |
|--------------------------|---------------------------------|--------------------|---------------------------|-----------------|
| Tx+ | WH / OG | 1 | 0.32 mm ² | Solid conductor |
| Tx- | OG | 2 | 0.32 mm ² | Solid conductor |
| Rx+ | WH / GN | 3 | 0.32 mm ² | Solid conductor |
| Rx- | GN | 4 | 0.32 mm ² | Solid conductor |
| (PoE +48 VDC) | WH / BU | 5 | 0.32 mm ² | Solid conductor |
| (PoE +48 VDC) | BU | 6 | 0.32 mm ² | Solid conductor |
| (PoE GND) | WH / BN | 7 | 0.32 mm ² | Solid conductor |
| (PoE GND) | BN | 8 | 0.32 mm ² | Solid conductor |
| GND/SHD | YE / GN | PE | 2.5 mm² | Flex |

Tab. 5-2 Wire assignment of terminal box ExTB-3 (model N)

The pin assignment of the SKDP03-T is executed in accordance with the standard EIA/TIA-568B for 100BaseTX and 24VDC, as follows:

| Camera (Ex-d) (T568B) | Colour SKDP03-T (IEC60757) | Terminal ExTB-3 | Cross-sectional surface | Comment |
|--------------------------|----------------------------------|--------------------|---------------------------|-----------------|
| Tx+ | WH / OG | 1 | 0.32 mm ² | Solid conductor |
| Tx- | OG | 2 | 0.32 mm ² | Solid conductor |
| Rx+ | WH / GN | 3 | 0.32 mm ² | Solid conductor |
| Rx- | GN | 4 | 0.32 mm ² | Solid conductor |
| (PoE +48 VDC) | WH / BU | 5 | 0.32 mm ² | Solid conductor |
| (PoE +48 VDC) | BU | 6 | 0.32 mm ² | Solid conductor |
| (PoE GND) | WH / BN | 7 | 0.32 mm ² | Solid conductor |
| (PoE GND) | BN | 8 | 0.32 mm ² | Solid conductor |
| GND/SHD | YE / GN | PE | 2.5 mm² | Flex |
| L+ | BK | 9 | 1.5 mm ² | L+ 24VDC |
| L- | BU | 10 | 1.5 mm ² | L- 24VDC |
| PE | YE / GN | PE | 1.5 mm² | PE |

Tab. 5-3 Wire assignment of terminal box ExTB-3 (model LL)

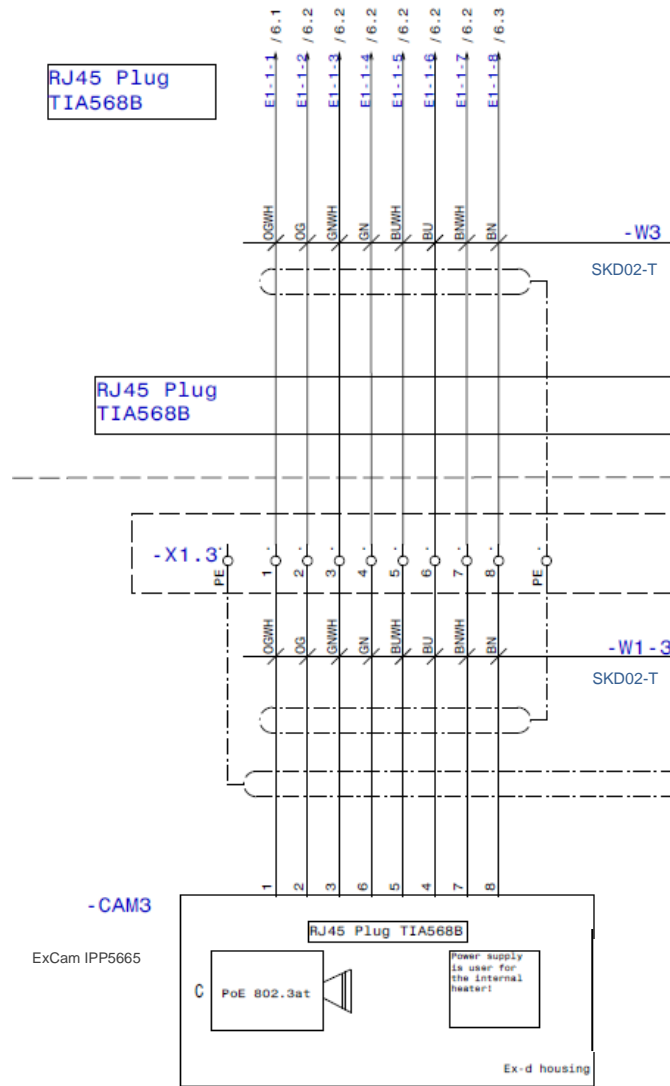


Fig. 5-4 Sample circuit of terminal box ExTB-3 (model N)

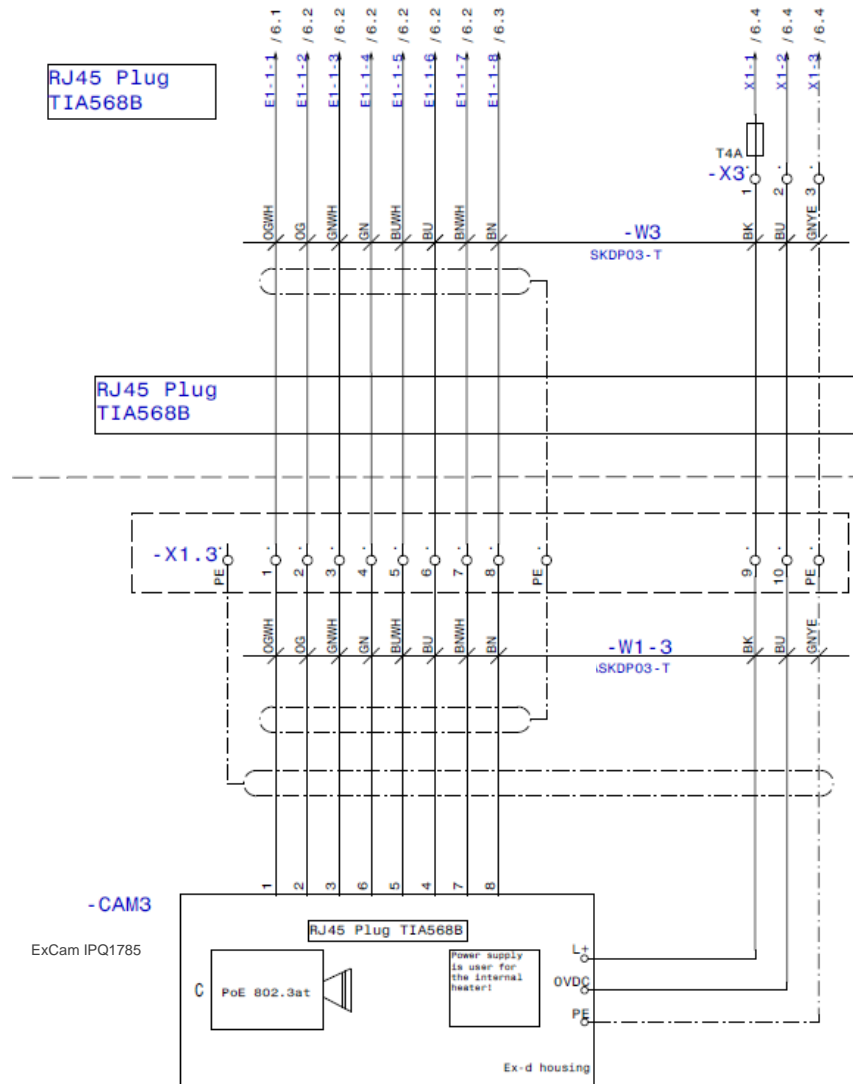


Fig. 5-5 Sample circuit of terminal box ExtTB-3 (model LL)

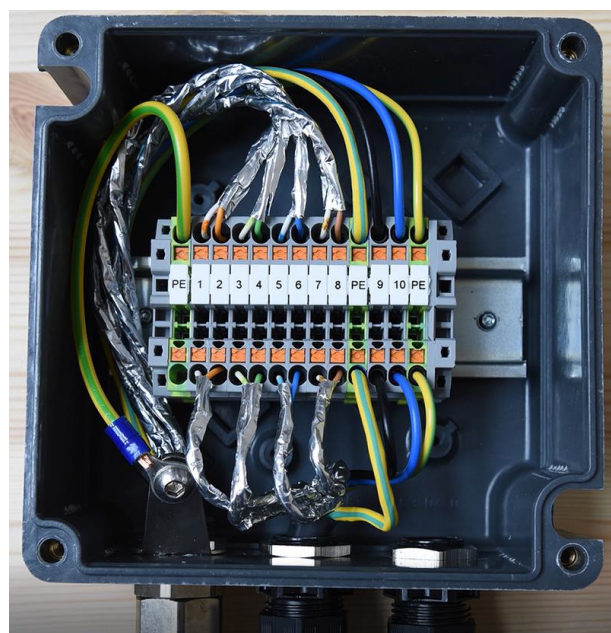


Fig. 5-6 Photo of the occupied terminal box ExtTB-3



Attention!

Perform the foiling up to about 10mm to the terminals, in order to prevent alien crosstalk. Make sure that the foiling cannot cause any short circuit of the data couples!



Attention!

Bring the twisted pair composite approximately 10mm close to the terminals, in order to ensure the immunity to disturbance.



Attention!

Use only terminals approved by SAMCON.



Attention!

Finally, check your network installation by per Class-D Link Test.

5.3 External connection and protection

There are several options of assigning the ExTB-3 terminal box in a safe area:

5.3.1 Direct routing from the ExTB-3 into the safe area

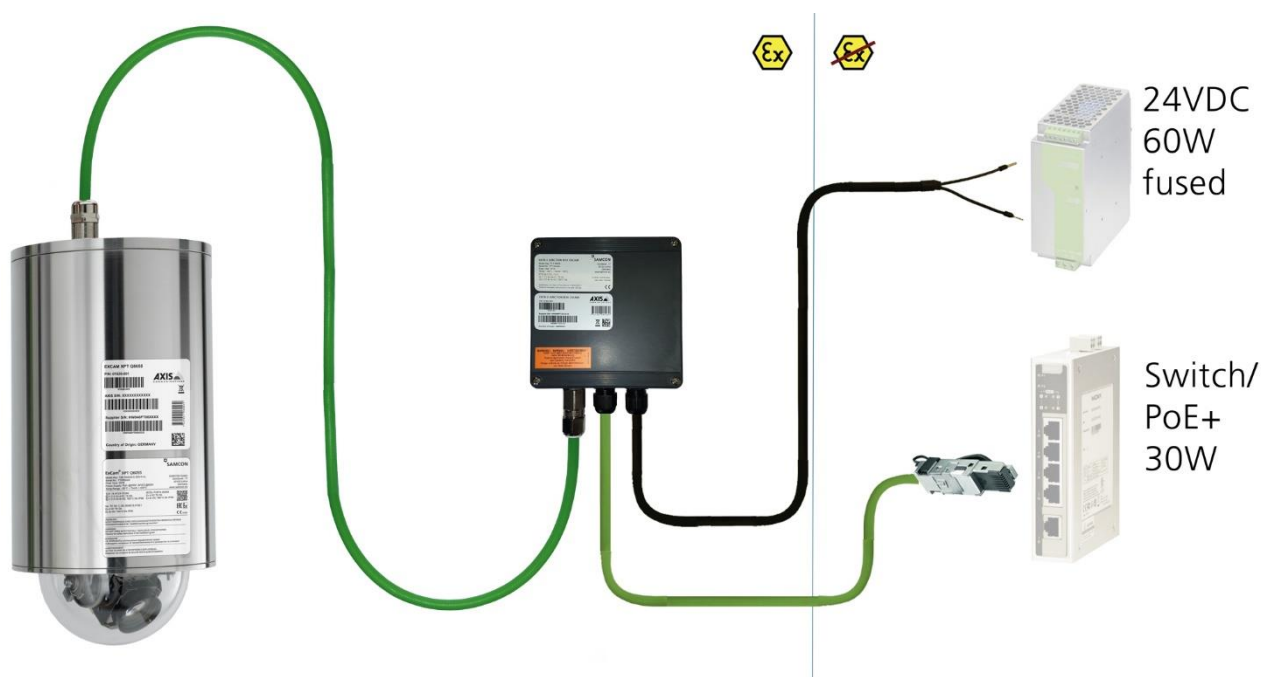


Fig 5-7 ExTB-3 -> Safe area

In the case of direct routing from ExTB-3 into the safe area, the power supply and the voltage signal is led from the safe area to the terminal box. Please observe the terminal box assignment, as described above.



Attention!
 Cables and wires must comply with the requirements of the IEC 60079-0/1/7 & 14.



Attention!
 The supply line must have a sufficient cross-section. The cable protection must comply with national and international regulations.

5.3.2 Routing via ExConnection Rail (optional accessories)

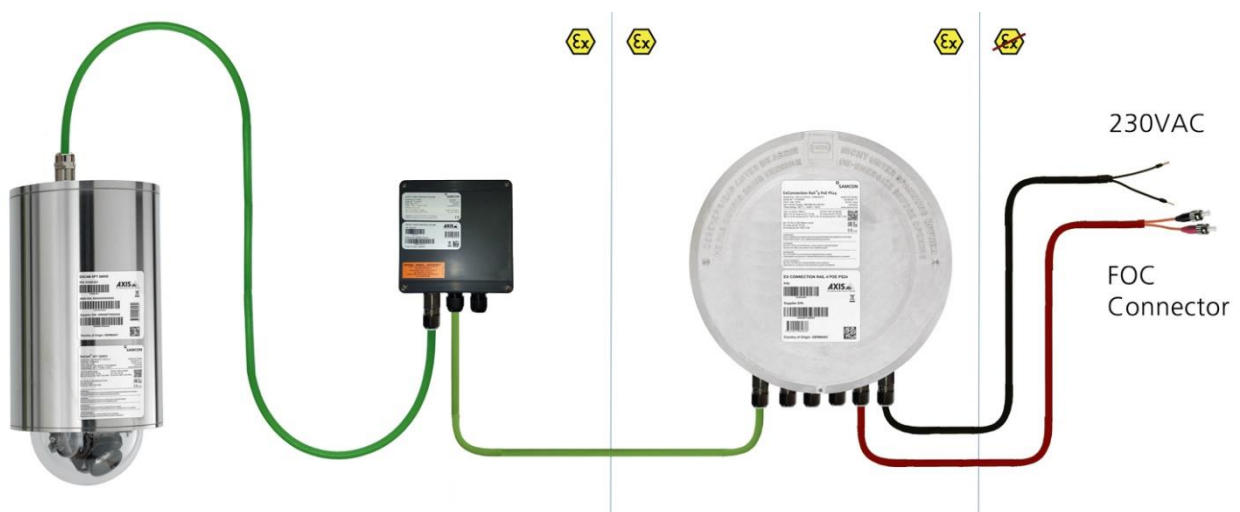


Fig. 5-8 ExTB-3 -> ExConnection Rail

In the case of routing the ExTB-3 into a larger ExConnection Rail, larger installation distances can be managed.

Note:

In explosive areas ExConnection Rail (optional accessories) acts as PoE+ switch, media converters from copper to fibre-optic cable, as well as a power supply to the cameras.



Attention!
 Cables and wires must comply with the requirements of the IEC 60079-0/1/7 & 14.



Attention!
 The supply line must have a sufficient cross-section. The cable protection must comply with national and international regulations.

5.3.3 Appropriate cables & cable entries

To ensure the device safety, you should correctly select the right cables, wires and cable glands.



Attention!
Cables and wires must comply with the requirements of the IEC 60079-0/1/7 & 14.



Attention!
The supply line must have a sufficient cross-section. The cable protection must comply with national and international regulations.

To see non-binding configuration and planning guidelines, please visit:

<https://www.samcon.eu/fileadmin/documents/en/99-Knowledgecenter/Cable-Gland-selection-for-Ex-d-enclosures.pdf>

Perhaps our video will help you:

"Cables for flameproof devices in potentially explosive atmospheres"

<http://go.samcon.eu/video-cable-ex>



Figure 5-9 Ex-d cable selection

In particular for installations which require a suitable barrier gland, make sure that you handle them correctly and adhere to the rules and notes given in the respective mounting instructions.

We show the essential procedures in the following video tutorial:

Video Tutorial:

Observe our video tutorial:

“SAMCON 02 Installation Ex d gland”

<https://go.samcon.eu/v02>



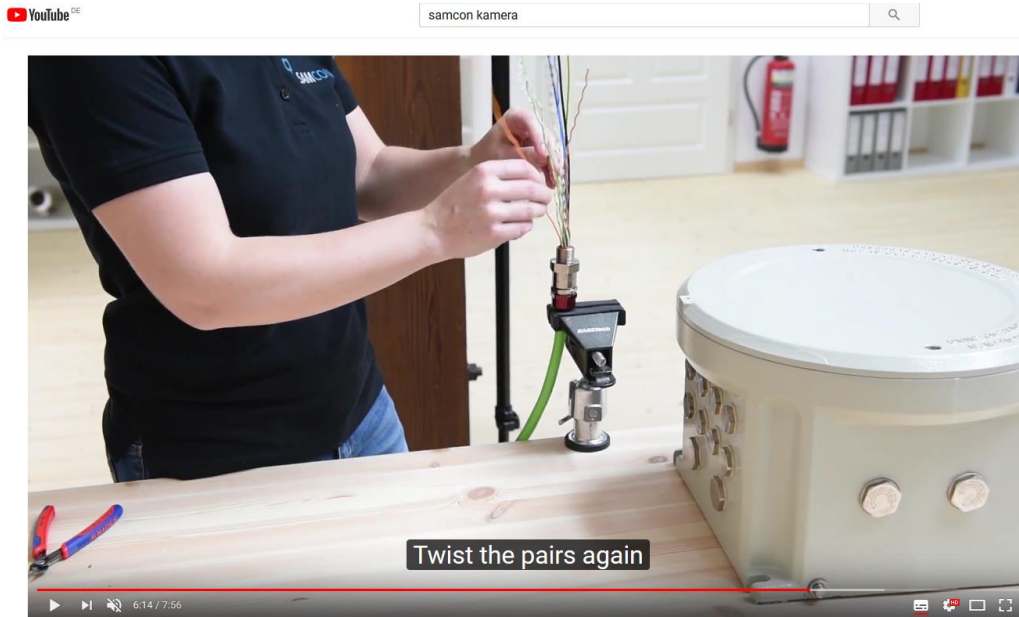


Fig. 5-10 Barrier gland

5.3.4 Fusing

PoE+ power supply requires no fuses.

The power supply fusing depends on the cable cross-section and length.



Attention!

Recommendation for fusing relates to **60W@24VDC** at 100meters
 1.5 mm²



Attention!

When the heating switches on, there are high current peaks! Use slow-blow fuses.



Attention!

Please pay attention to the national and international regulations regarding selectivity and line protection.

| Potential/ Wire no. | Colour (IEC60757) | Conductor | Voltage | Maximum power consumption/fusing: |
|------------------------|----------------------|---|-------------|---|
| L+ / 1 | BK | 1.5mm ² , stranded wire | +24 VDC | 60 W of continuous power Fine-wire fuse (L+) 6000 mA -T- slow-blow (high inrush load!) |
| L- / 2 | BU | 1.5Mm2, ² , stranded wire | 0 VDC / GND | |
| PE | YE/GN | 1.5Mm2, ² , stranded wire | PE | |

Tab. 5-4 Recommendation for fusing

5.3.5 Plug assignment (RJ45)

The data transfer of the ExCam IPP5655 series uses a 100 Mbit/s Ethernet connection (100BASE-TX).

If the cable termination uses a plug it has to be plugged into the associated slot of the network device. Prior to connecting it to the camera, the network device (PSE) can already be supplied with power, hence there is no „power ON“ priority which has to be observed.



Attention!

Use the appropriate RJ45 plug! Check shielding, cross-section and the outside diameter of the cable!



Attention!

It is imperative to ensure a correct assignment of the individual wires according to the EIA/TIA-568B"



Attention!

Finally, check your network installation by per Class-D Link Test.

Observe our video tutorial:

“SAMCON 03 Mounting and installing the RJ45 jack to SAMCON cables”

<https://go.samcon.eu/v03>



Fig. 5-11 Plug assignment RJ45

5.3.6 Tests prior to switching on voltage



Attention!

Prior to commissioning, all tests as indicated by the national regulations have to be executed. Furthermore, the correct function and installation of the device has to be checked in accordance with this user manual and other applicable regulations.



Attention!

Incorrect installation and operation of the camera may lead to a loss of warranty!



Attention!

Do not switch on the camera at temperatures below 0°C!

6 Opening the pressure-resistant housing

To open the TNXCD housing, you need a special tool. The customer should not open it. If you think that the housing has to be opened for unforeseeable reasons, please contact our support team at first (Support@samcon.eu).

Always adhere to the explosion-relevant rules:



„WARNING – MAY NOT BE OPENED IN HAZARD AREAS“

Note: Depending on classification of hazard areas, a work approval has to be obtained.

Even after switching on the power supply, it is absolutely imperative to avoid potentially explosive atmosphere when opening the camera housing. Opening the housing requires disassembly and working in a safe (i.e. non-explosive!) area.



Attention!

Heed that you do not damage the thread surface of the flame-proof gap.



Attention!

Heed that you do not damage the housing seals. Keep them clean!

7 Network access and visualization

The most important procedures of the first starting up the camera are described below. The configuration menu of the web surface allows an intuitive navigation and offers several configuration possibilities. For detailed documentation and information how to use the web Interface, please see the User Manual for Axis or visit the following website:

<http://www.axis.com/products/axis-p5655-e>



At delivery, the ExCam IPP5655 is set to the applicable net frequency (50Hz or 60Hz). If the camera is used at a location with a differing net frequency, a flickering of the picture might be noticeable, particularly in surroundings with fluorescent tubes. In such a case, the applicable settings have to be carried out within the menu “System Options > Advanced > Plain Config”.

User: root
Password: root

7.1 Browser Support

A list of the currently supported web browsers, operating systems, required add-ons, etc. can be viewed at:

<http://www.axis.com/support/technical-notes/browser-support>

<https://help.axis.com/access-your-device>

<https://www.axis.com/support>



7.2 Assigning the IP address

The ExCam IPP5655 is intended for use in an Ethernet network and requires an IP address to access and control it. In the most today's networks, a DHCP server is integrated. This server automatically assigns an IP address.

<https://www.axis.com/support/tools/axis-ip-utility>

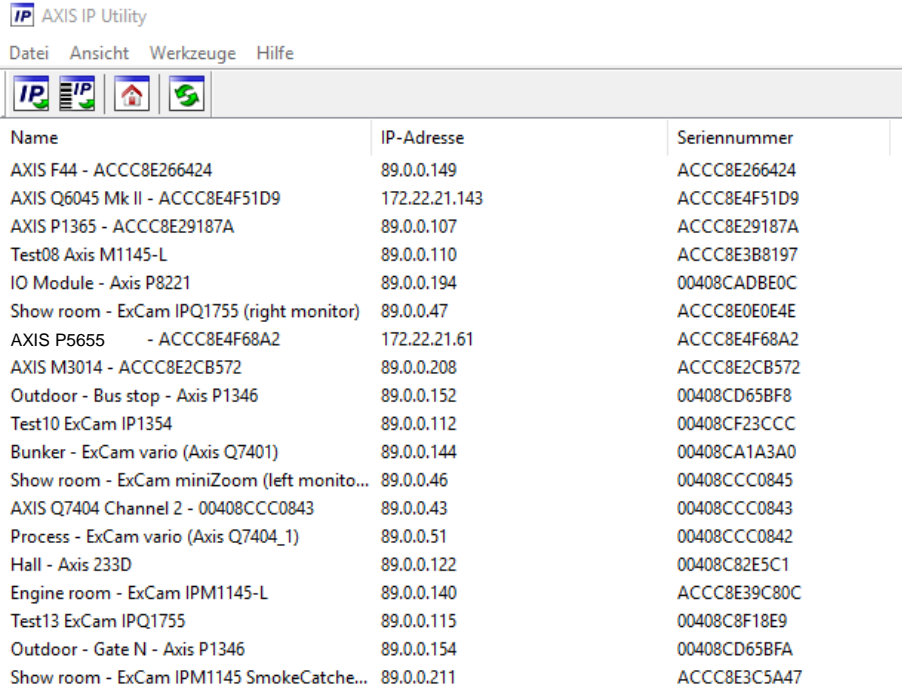
If there is no DHCP server available in the network, the ExCam IP's default address is **"192.168.0.90" (subnet masking 255.255.255.0)**.

With the AXIS IP Utility, it is possible to determine the IP address under Windows.



In case it is not possible to assign the IP address, it might be necessary to change the firewall settings!

The "AXIS IP Utility" tool automatically recognizes all ExCam devices and visualises them in the device list. It can also be used to manually assign a static IP address. For this purpose, the ExCam IPP5655 network camera has to be installed in the same physical network segment (physical subnet) as the computer on which the AXIS IP Utility is running. The network signature of ExCam IPP5655 is "AXIS P5655" (see Figure 7.1). MAC address and serial number for clear device identification are also detected and displayed.



| Name | IP-Adresse | Seriennummer |
|---|---------------|--------------|
| AXIS F44 - ACCC8E266424 | 89.0.0.149 | ACCC8E266424 |
| AXIS Q6045 Mk II - ACCC8E4F51D9 | 172.22.21.143 | ACCC8E4F51D9 |
| ExCam IP1365 → AXIS P1365 - ACCC8E29187A | 89.0.0.107 | ACCC8E29187A |
| Test08 Axis M1145-L | 89.0.0.110 | ACCC8E3B8197 |
| IO Module - Axis P8221 | 89.0.0.194 | 00408CADBE0C |
| Show room - ExCam IPQ1755 (right monitor) | 89.0.0.47 | ACCC8E0E0E4E |
| ExCam P5655 → AXIS P5655 - ACCC8E4F68A2 | 172.22.21.61 | ACCC8E4F68A2 |
| AXIS M3014 - ACCC8E2CB572 | 89.0.0.208 | ACCC8E2CB572 |
| Outdoor - Bus stop - Axis P1346 | 89.0.0.152 | 00408CD65BF8 |
| Test10 ExCam IP1354 | 89.0.0.112 | 00408CF23CCC |
| Bunker - ExCam vario (Axis Q7401) | 89.0.0.144 | 00408CA1A3A0 |
| Show room - ExCam miniZoom (left monito... | 89.0.0.46 | 00408CCC0845 |
| AXIS Q7404 Channel 2 - 00408CCC0843 | 89.0.0.43 | 00408CCC0843 |
| Process - ExCam vario (Axis Q7404_1) | 89.0.0.51 | 00408CCC0842 |
| Hall - Axis 233D | 89.0.0.122 | 00408C82E5C1 |
| Engine room - ExCam IPM1145-L | 89.0.0.140 | ACCC8E39C80C |
| Test13 ExCam IPQ1755 | 89.0.0.115 | 00408C8F18E9 |
| Outdoor - Gate N - Axis P1346 | 89.0.0.154 | 00408CD65BFA |
| Show room - ExCam IPM1145 SmokeCatche... | 89.0.0.211 | ACCC8E3C5A47 |

Fig. 7-1 Axis IP Utility

7.3 Password/ Identification

The following user name is set at the factory: **root**

The following password is set at the factory: **root**

8 Maintenance/ Modification

The applicable regulations for the maintenance and servicing of electrical devices in potentially explosive atmospheres must be adhered to.

The required maintenance intervals are specific to the individual devices. The operating company has to determine these intervals depending on the application parameters. The maintenance tasks especially include examination of parts on which the ignition protection depends (e.g., proper condition of the casing, seals and cable entry points). If maintenance measures are necessary they have to be initiated and/or executed.

9 Reparation

Reparations must only be carried out with original parts of SAMCON Prozessleittechnik GmbH. Damaged pressure-resistant housings have to be replaced completely. In case of doubt, send the part in question back to SAMCON Prozessleittechnik GmbH.

Reparations affecting the explosion protection must only be carried out in accordance with nationally applicable regulations - by SAMCON Prozessleittechnik GmbH or by an electrician specially authorised by SAMCON Prozessleittechnik GmbH.

Rebuilding of or alterations to the devices are not permitted!

10 Disposal/ Recycling

When disposing of the device, nationally applicable regulations must be observed.

This Document is subject to alterations and additions.

11 Drawings & 3D models

All drawings, 3D models, certificates and other information are available in the download area of the product page on our website:

<https://www.samcon.eu/en/products/network/excam-ipp5655/>



Analog Ex Cameras (CVBS)

Network Ex Cameras (TCP/IP)

ExCam IPM3016

ExCam IPM114x

ExCam IP1365

ExCam IPQ1645

ExCam IPQ1785

ExCam IPP5635

ExCam IPP5655

ExCam IPQ6055

Robust Cameras (non-ex)

Ex-d Camera Enclosures

Connection Systems

Cables for Ex-Areas

Downloads:

- [ExCam Comparison](#)
- [Datasheet](#)
- [3D-Model](#)
- [Usermanual](#)
- [CAD-files \(DXF\)](#)
- [Ex Installation Manual](#)
- [ATEX Type Examination](#)
- [IECEX Cert.-of-Conformity](#)
- [EAC-Ex-Certification](#)
- [EU Dec. of Conformity](#)
- [Man.-Dec.-60079-14](#)
- [Optical-Quality-Test](#)

ExCam[®] IPP5655

The ExCam IPP5655 is a powerful IP-dome-camera (2 megapixels) for use in hazardous areas – **not only offering superb HDTV resolution (1920 x 1080) but also a powerful motor zoom and auto focus lens (32x optical zoom)**. The camera allows continuous 360° pan rotation and 180° tilt coverage with automatic picture rotation. A particular highlight is the precise and quick panning and tilting ability of the camera. The ExCam series is certified according to European regulations (ATEX) as well as international ones (IECEX). These and more available certificates can be found in the download area.

Features.

- Broad Certification Landscape for Hazardous Areas (ATEX, IECEX & EAC-Ex and more)
- Single-Cable-Solution (PoE / 24VDC)
- Protection Level of IP68 (IEC 60529)
- High Resolution: 1920x1080 (HDTV 1080p)
- Powerful Motor-Zoom-Autofocus-Lens (32x Optical)
- Lightfinder and WDR Technologies
- Focus recall and EIS (electronic image stabilisation)
- Easy VMS Integration

ATEX, IECEX and EAC-Ex certified Ex-proof dome camera

The ExCam series is certified according to European regulations (ATEX) as well as international ones (IECEX). The housings' certification comprises ATEX group II for zone 1, 2 as well as 21 and 22 including the explosion groups IIB / IIIC. Furthermore it also disposes of EAC-Ex and IA-certification.

During the ExCam IPP5655's development stage, the focus was clearly laid on security aspects as well as mechanical precision and high-quality stainless steels but also on the modular design which allows, for example,

If you wish additional technical information, please contact us at:

support@samcon.eu

12 Notes



SAMCON

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