Data sheet, Connection and Installation instructions

Order no. BWGV-71000000 to BWGV-71000060, plus BWGV-71000115

AVS system

General information:

The AVS system was developed for the vandalism-proof installation of teleCARE IP and Telligence devices from **ascom**. The area of application is everywhere where increased physical forces can act on the devices. All of the components have undergone extensive function testing which has been carried out with the utmost diligence and takes into account this possible external physical effect. Despite this testing effort, it cannot be completely ruled out that the system may be damaged by excessive mechanical effect through the use of objects. Therefore, we recommend checking the function of the components on a regular basis.

AVS

Made by siworks products AG Switzerland

Safety instructions for mechanical components!

Only instructed specialists may install the units. The installation instructions and safety regulations must always be followed during installation.

Safety instructions for electrical components!

NIN, VDE, ESD and other relevant safety regulations must always be complied with during installation. All **ascom** components may only be connected in a de-energised state.

User group: Only instructed specialists may install and connect **ascom** components and change settings. Please also refer to the installation instructions from **ascom.**

Personal protective equipment:

All AVS components are made of stainless steel and are produced in accordance with the highest quality standards. Nevertheless, it cannot be ruled out that occasional sharp edges or burrs may cause minor injuries. We recommend that you wear cut-resistant gloves for the entire duration of the installation.

Required tools:

1x three-point screwdriver, 3 pins
Similar: Feller Art. No. 798W / EAN No. 7611386153629
1x slotted screwdriver, size 3
Similar: SWISS TOOLS Art. No. PB8100/3 / EAN No. 7610733078882
1x cross screwdriver PH, size 0
Similar: SWISS TOOLS Art. No. PB 8190 0-60 / EAN No. 7610733078967
1x cross screwdriver PH, size 1
Similar: SWISS TOOLS Art. No. PB 8190 1-80 / EAN No. 7610733078974
1x hexagonal screwdriver PB200, 8 mm
Similar: SWISS TOOLS Art. No. PB 8200S/8 / EAN No. 7610733068616
1x side cutter
Similar: KNIPEX Art. No. 70 05 160 / EAN No. 4003773039600
1x combination pliers
Similar: KNIPEX Art. No. 03 05 160 / EAN No. 4003773039518

Installation and assembly of the AVS components:

The following are the assembly and installation instructions for the individual AVS components. To prevent errors and malfunctions, we ask you to read through these in advance and to comply with the instructions. siworks products AG accepts no liability for damage caused by improper installation.

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1 Installation housing assembly

1.1 Installation housing Art. No. BWGV-71000000 and BWGV-71000001

The installation housing is required for the in-wall installation of the AVS modules. The installation housing is available in 2 different sizes and can be used for all modules and combinations offered. The following installation instructions are identical for the installation housing type 1 (Art. No. BWGV-71000000) and the installation housing type 2 (Art. No. BWGV-71000001).

1.2 Preparation of installation housing for mounting in concrete or masonry

First, please remove the protective cardboard on the front side from the mounting for the front panel *(Figure 1)*.

Important information: Keep the cardboard. This must be reinserted before the final assembly of the installation housing in order to prevent the concrete from penetrating from the front.

The installation tubes, size M25, can be inserted at the top and bottom, as well as at the back *(Figure 2)*. If the cubes will be inserted at the sides, the installation housing can be rotated 90 degrees *(Figure 2)*. First remove the protective film from the corresponding opening (Figure 3) and break out the protective metal cover. To do this, use the side cutter to cut through the 4 retaining points.

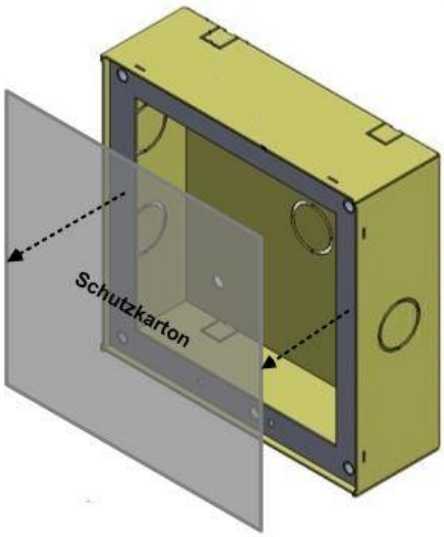


Figure 1: *Removing the protective carton*

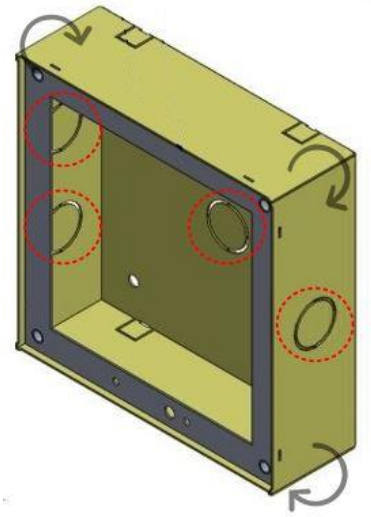


Figure 2: *Tube inlet M25*

When mounting in concrete, the 4 retaining wings *(Figure 4)* must also be bent out. To do this, please also remove the protective film from the 4 retaining wings and carefully bend them slightly outwards using a slotted screwdriver. Then bend the wings into their final position using the combination pliers to 90 degrees perpendicular to the housing wall.

Important information: Only remove the necessary protective films from the openings. These protect the housing, preventing concrete from flowing in. If you have removed a film by mistake, the opening can be sealed using conventional PVC adhesive tape. After the concrete has hardened, the protective films can be removed without any problems.

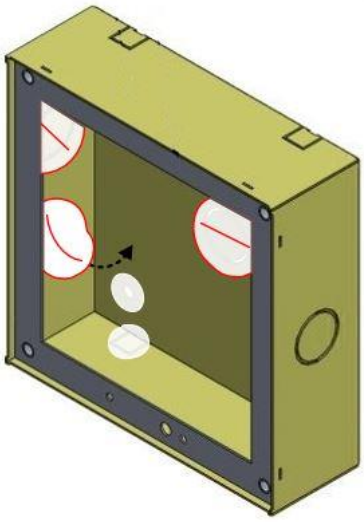


Figure 3: *Removing the protective films*

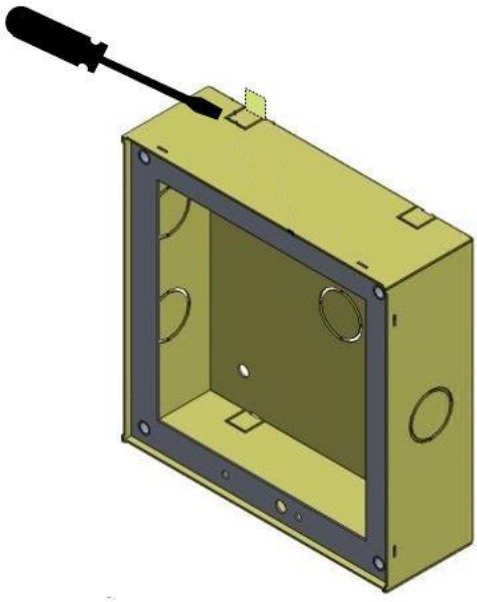


Figure 4: *Bending out the retaining wings*

1.3 Mounting the installation housing in masonry or on rear mounting base

Place the installation housing in the designated position and secure it in place using screws or cement. The 4 holes located in the rear panel *(Figure 5)* can be used to fasten the installation housing to a rear mounting base (masonry or wood).

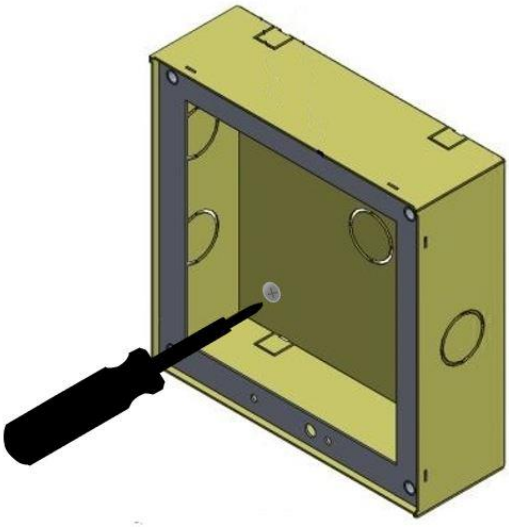


Figure 5: *Fastening the installation housing to the rear wall*

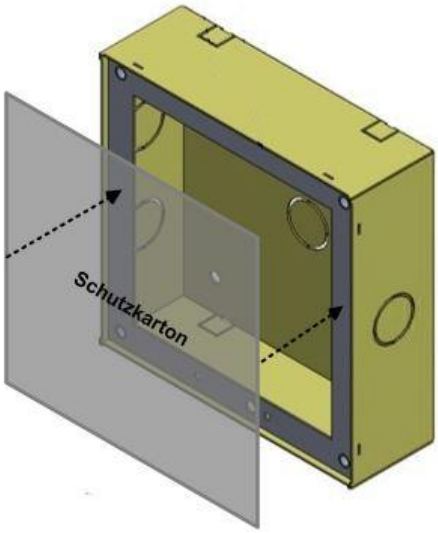


Figure 6: *Inserting the protective carton*

Please note that the front edge of the installation housing must be flush with the finished wall *(Figure 7)*. The protruding collar defines the necessary distance to the finished wall in order to install the unit flush later.

After securing the installation housing, place the protective carton back into the intended opening *(Figure 6)*.

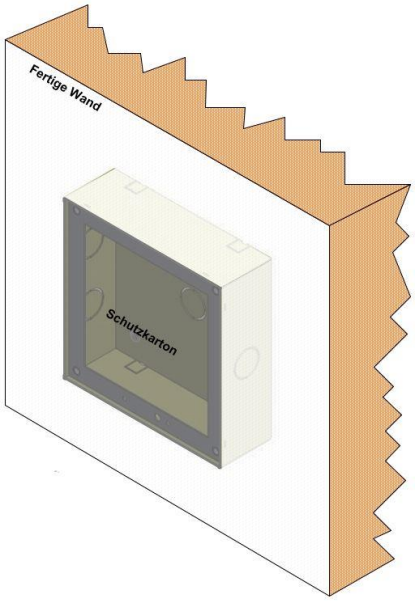


Figure 7: *Mounting the installation housing flush with the wall*

1.4 Mounting the installation housing on formwork panels

The 4 holes located in the rear panel *(Figure 8)* can be used to fasten the installation housing to a formwork panel at the front. To do so, please use the concrete mounting set Art. No. BWGV-71000060*.

* available separately

Important information: The protective cardboard must be reinserted into the intended opening before attaching the installation housing to the formwork panel.

Place the installation housing at the designated position on the formwork panel and fasten it to the formwork panel using the 4 countersunk pins from the concrete mounting set Art. No. BWGV-710000060 *(Figure 9)*.

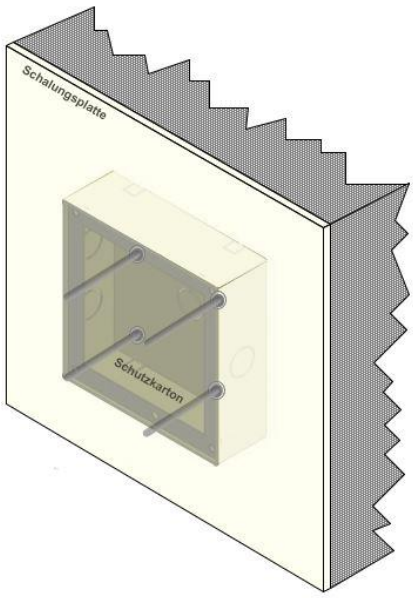


Figure 8: *Mounting on formwork panels*

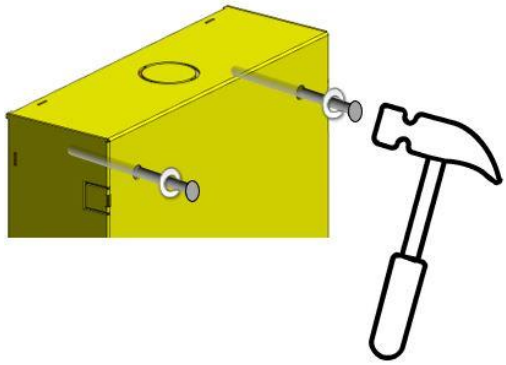


Figure 9: *Concrete mounting set Art. No. BWGV-71000060*

Important information: Be careful when removing the formwork panel. Improper removal of the formwork panel may damage the installation housing.

1.5 Mounting the installation housing in hollow walls and plaster walls

When mounting the installation housing in a hollow wall or plaster wall, proceed as described in sections 1.2 and 1.3.

Important information: The retaining wings *(Figure 4)* must not be bent out when mounting the installation housing in hollow walls and plaster walls.

1.6 Installing the sabotage contact Art. No. BWGV-71000115 (optional)

The installation housing type 1 (Art. No. 71000000) and the installation housing type 2 (Art. No. 71000001) can be protected against unauthorised opening using a sabotage contact. To do so, install the sabotage contact (Art. No. 71000115) at the mounting points provided for this purpose on the installation housing *(Figure 10)* using the M3 screws included in the scope of delivery. To do this, guide the release contact (white plastic pin) through the intended opening (6 mm) and fasten the contact using the two M3 countersunk screws.

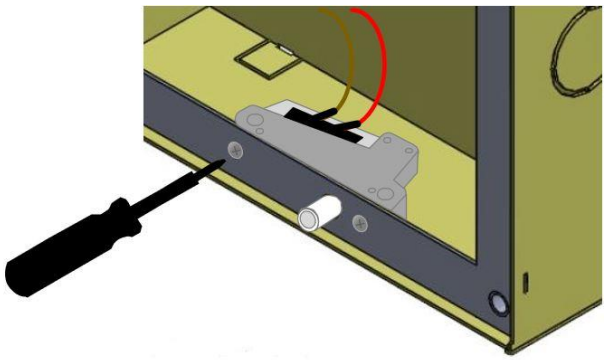


Figure 10: *Installing the sabotage contact*

Important information: The sabotage contact must always be movable. Adjust the tamper contact to ensure that the white trigger contact is not jammed. Test the freedom of movement by pressing the contact several times with your finger and releasing it again. The trigger contact must always return to its original position automatically.

Important information: Please refer to the corresponding **ascom** installation instructions for the correct electrical connection of the sabotage contact to the system.

2 Compatibility of the teleCARE IP and Telligence modules

2.1 Compatibility list

The following **ascom** modules are compatible with the AVS system.

ascom article number	Designation	**ascom** install guide doc-no.
NUDM3-HE	Customizable Button Module	TD 93506EN
NUSPM-HE	Speech Module	TD 93511EN
NUPC3-HE	Pull Cord Module	TD 93508EN
NIRC4-WMN	Room Controller 4	TD 93351EN
NICL4-WSA	Corridor Lamp 4	TD 93352EN

The following assembly instructions can be used for all type 1 and 2 module combinations!

3 Installing the teleCARE IP and Telligence modules

3.1 Installing the button module Art. No. NUDM3-HE in device frame Art. No. BWGV-71000006

You always require the device frame, Art. No. BWGV-71000006 *(Figure 11)* to install the **ascom** Customizable Button Module. Take the Customizable Button Module and push it into the device frame from below until the 3 plastic retaining clips snap into the metal lock *(Figure 12)*.

Important information: When inserting the module, please ensure that the plastic retaining clips are correctly aligned *(Figure 12)*. **Attention!** The Customizable Button Module NUDM3-HE can only be inserted correctly in one direction. Improper insertion can cause damage to the retaining clips.

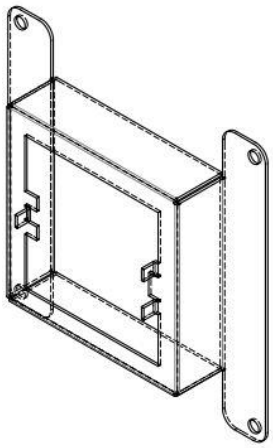


Figure 11: *Device frame*

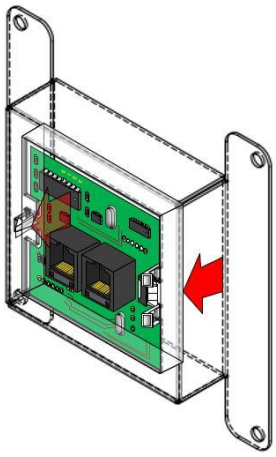


Figure 12: *Installation in the device frame*

3.2 Selecting the front panel Art. No. BWGV-71000002, 71000003, 71000004 and 71000005

The front panel is available in 2 different sizes. The type 1 and 2 front panels are available with versions for flush mounting *(Figures 13a and 13b)* in the finished wall (Art. No. BWGV-71000002 and BWGV-71000003) and also in the “large” version *(Figures 14a and 14b)* for mounting on the wall (Art. No. BWGV-71000004 and BWGV-71000005). The “large” version is intended to cover unsightly edges on the wall, up to a maximum width of 4 mm.

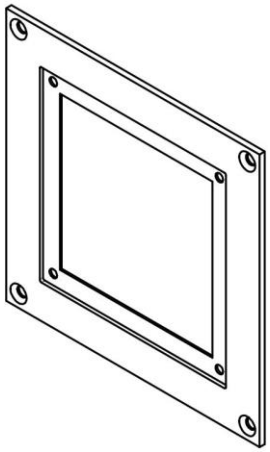


Figure 13a: *Front panel, type 1, Art. No. BWGV-71000002*

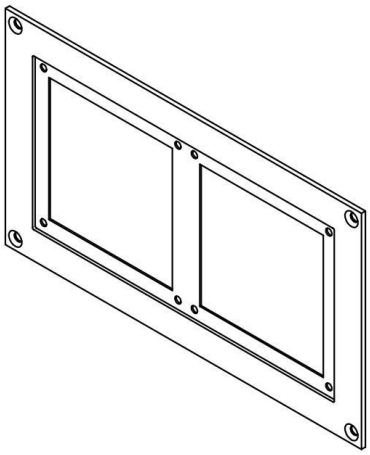


Figure 13b: *Front panel, type 2, Art. No. BWGV-71000003*

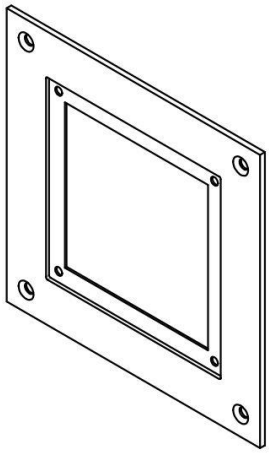


Figure 14a: *Front panel, type 1 large, Art. No. BWGV 71000004*

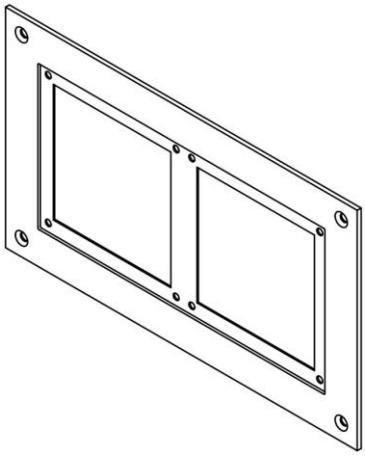


Figure 14b: *Front panel, type 2 large, Art. No. BWGV-71000005*

Important information: All 4 front panels are compatible with all device panels and can be combined with all of the modules listed in section 2.1. The modules can be changed at any time.

Select the correct front panel for your installation housing and insert the supplied device panel gasket into the groove on the front panel *(Figures 15a and 15b)*. The 4 holes on the front panel and the seal must be on top of each other.

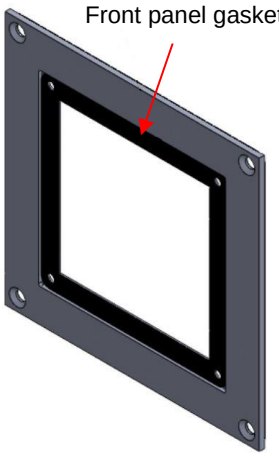


Figure 15a: *Device panel gasket, type 1*

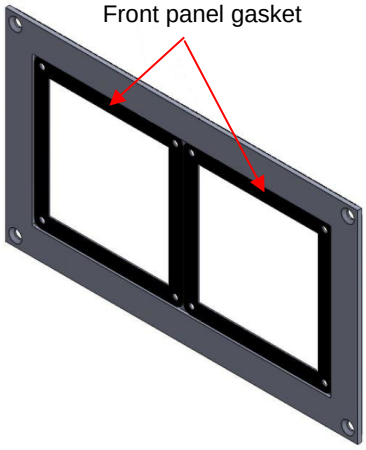


Figure 15b: *Device panel gasket, type 2*

Important information: All of the seals are included with the “front panel” articles BWGV-71000002, 71000003, 71000004 and 71000005. A sufficient number of seals is included. However, all of the seals can also be purchased individually as spare parts. See Table 5.1 *Article and spare parts list*.

3.3 Installing the push-button module device panel Art. No. BWGV-71000008 and BWGV-71000009

2 different device panels are available for the **ascom** *Customizable Button Module*. The call presence device panel *(Figure 16)* consists of a red call button and a green presence button and uses the top and bottom buttons of the **ascom** Customizable Button Module. The call device panel *(Figure 17)* consists of a red call button and uses the top button.

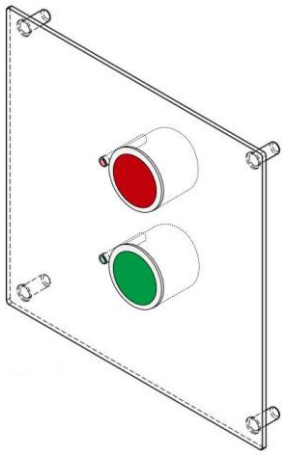


Figure 16: *Call presence button module device panel*

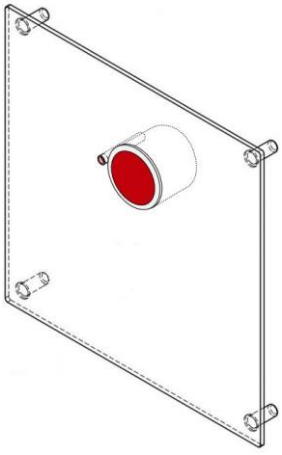


Figure 17: *Call button module device panel*

Insert the 4 threaded bolts of the button module device panel from the front through the device pedal gasket and then through the 6 mm holes on the front panel *(Figure 18)*. Please ensure that the gasket is properly positioned in the groove *(Figures 15a and 15b)*.

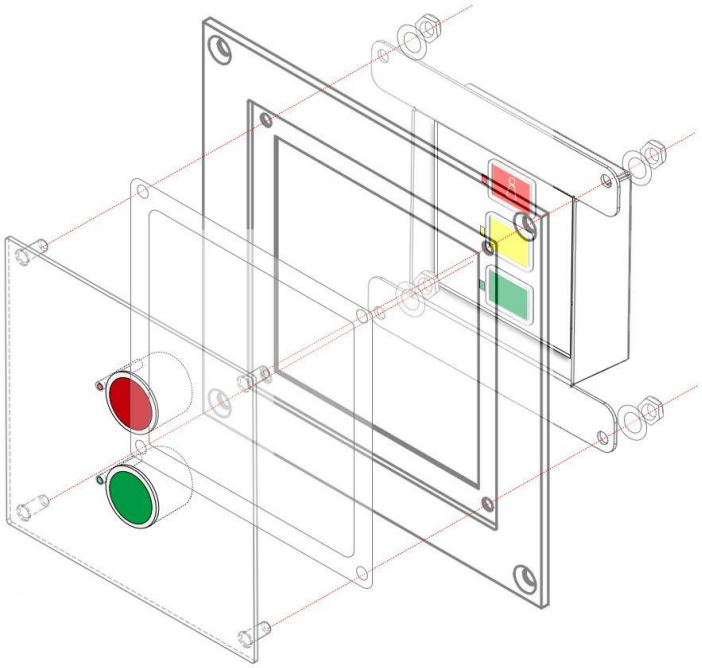


Figure 18: *Assembling the device panel, device panel gasket, front panel and device frame with button modules*

Important information: Improper installation of the gasket can cause damage to the gasket, so that the assembly is no longer sealed.

Take the **ascom** *Customizable Button Module* installed in the device frame in section 3.1 and push it over the 4 threaded bolts from the rear *(Figure 18)*.

Important information: Please ensure that the alignment is correct. The upper and lower struts of the device frame must be aligned horizontally to the front panel *(Figure 18)*. In addition, the push-buttons and the acrylic glass light guides on the device panel must be positioned above the push-buttons and the button module LED (red above, green below).

Screw the entire combination onto the M4 threaded bolts of the device panel using the 4 safety nuts supplied *(Figure 18)*. When mounted correctly, the device panel and the front panel must be flush. After assembly, press the button(s) to check that they are functioning correctly. When installed correctly, a pressure point should be noticeable.

Important information: Excessively tightening the M4 safety nuts can cause deformation of the device panel.

3.4 Installing the Speech Module Art. No. NUSPM-HE in the device frame Art. No. BWGV-71000006

To install the **ascom** Speech Module in the device frame BWGV-71000006, please proceed as described in section 3.1.

3.5 Selecting the front panel Art. No. BWGV-71000002, 71000003, 71000004 and 71000005

To select the front panel, please see section 3.2.

3.6 Installing the Speech Module device panel Art. No. BWGV-71000010

Insert the 4 threaded bolts of the device panel from the front through the device pedal gasket and then through the 6 mm holes on the front panel *(Figure 19)*. Please ensure that the gasket is properly positioned in the groove *(Figures 15a and 15b)*.

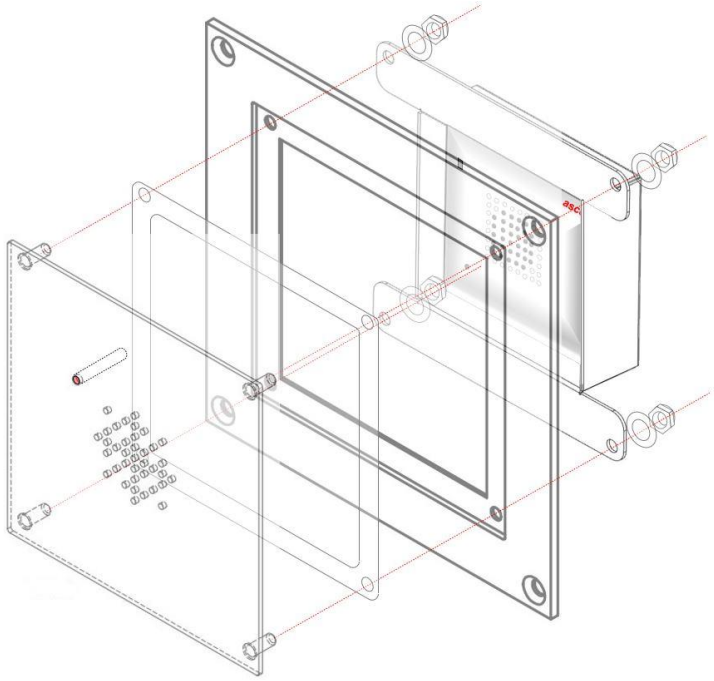


Figure 19: *Assembling the Speech Module device panel, device panel gasket, front panel and device frame with Speech Module*

Important information: Improper installation of the gasket can cause damage to the gasket, so that the assembly is no longer sealed.

Take the Speech Module installed in the device frame in section 3.4 and push it over the 4 threaded bolts from the rear *(Figure 19)*.

Important information: Please ensure that the Speech Module is correctly aligned. The upper and lower struts of the device frame must be aligned horizontally to the front panel *(Figure 19)*. In addition, the acrylic glass light guide on the device panel must lie precisely on the LED of the Speech Module.

Screw the entire combination onto the M4 threaded bolts of the device panel using the 4 safety nuts supplied *(Figure 19)*. When mounted correctly, the device panel and the front panel must be flush.

Important information: Excessively tightening the M4 safety nuts can cause deformation of the device panel.

3.7 Installing the dummy module Art. No. BWGV-71000006

The dummy module serves as a placeholder for the later installation of a Button, Pull Cord or Speech Module. A device frame does not need to be installed.

3.8 Selecting the front panel Art. No. BWGV-71000002, 71000003, 71000004 and 71000005

To select the front panel, please see section 3.2.

3.9 Installing the dummy module device panel Art. No. BWGV-71000011

Insert the 4 threaded bolts of the device panel from the front through the device pedal gasket and then through the 6 mm holes on the front panel *(Figure 20)*. Please ensure that the gasket is properly positioned in the groove *(Figure 15)*.

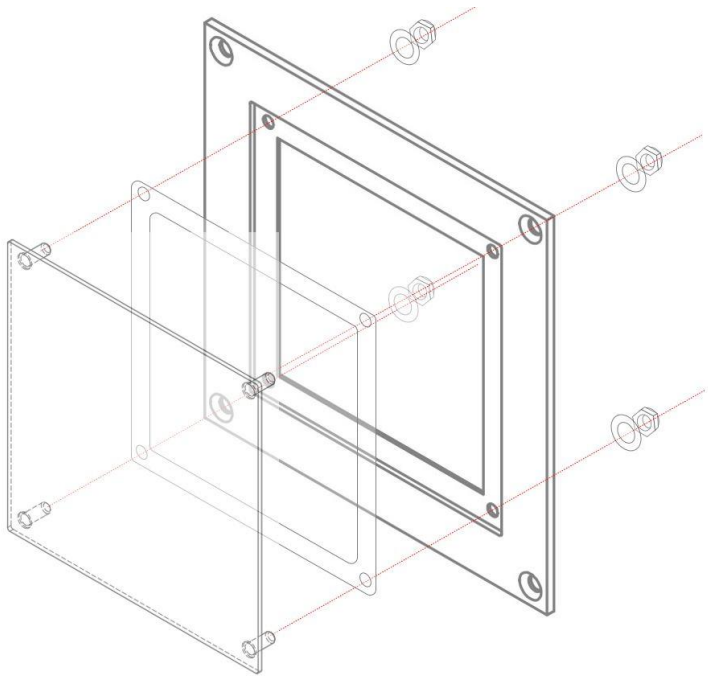


Figure 20: *Assembling the device panel, dummy module, device panel gasket and front panel.*

Important information: Improper installation of the gasket can cause damage to the gasket, so that the assembly is no longer sealed.

Screw the entire combination onto the M4 threaded bolts of the device panel using the 4 safety nuts supplied *(Figure 20)*. When mounted correctly, the device panel and the front panel must be flush.

Important information: Excessively tightening the M4 safety nuts can cause deformation of the device panel.

3.10 Installing the Pull Cord Module NUPC3-HE in the device frame Art. No. BWGV-71000007

You always require the device frame, Art. No. BWGV-71000007 *(Figure 21)* to install the **ascom** Pull Cord Module. Take the Pull Cord Module and press it into the device frame from above Art. No. BWGV-71000007 *(Figure 22)*. Please ensure that the two screw holes are positioned on the threads underneath. Attach the Pull Cord Module to the device frame using the 2 M3 screws supplied *(Figure 22)*.

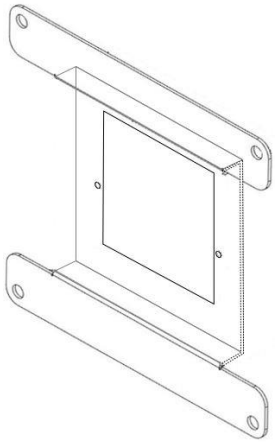


Figure 21: *Pull cord device frame*

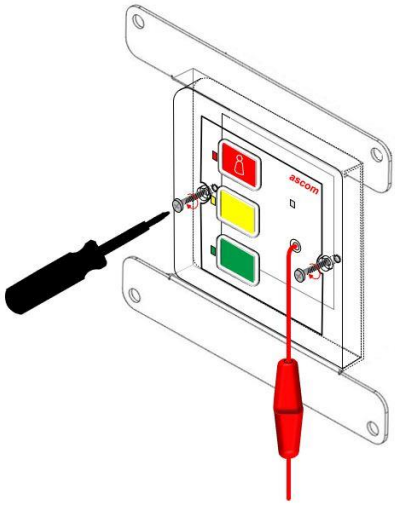


Figure 22: *Installing the Pull Cord Module in the device*

3.11 Selecting the front panel Art. No. BWGV-71000002, 71000003, 71000004 and 71000005

To select the front panel, please see section 3.2.

3.12 Installing the Pull Cord Module device panel Art. No. BWGV-71000012

Insert the 4 threaded bolts of the device panel from the front through the device pedal gasket and then through the 6 mm holes on the front panel *(Figure 23)*. Please ensure that the gasket is properly positioned in the groove *(Figure 15)*.

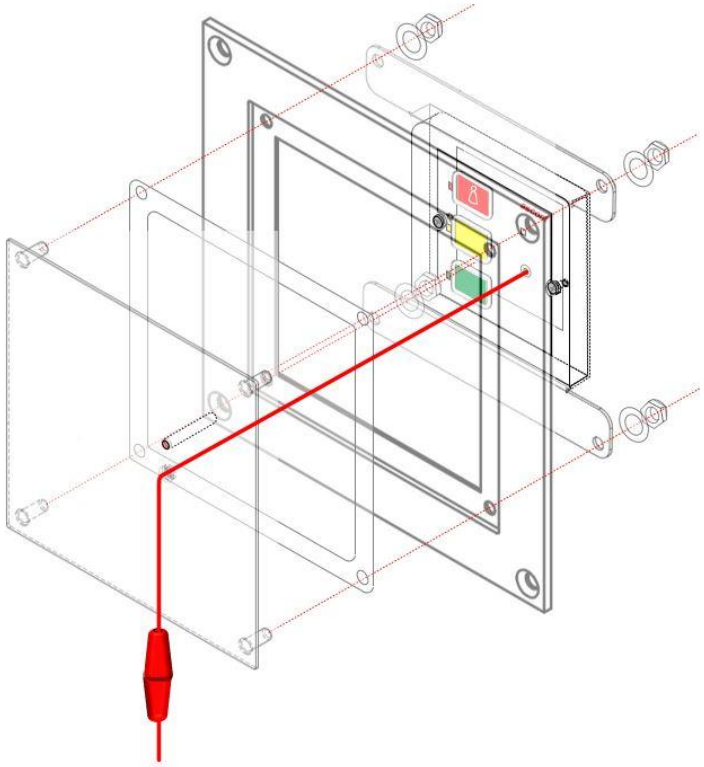


Figure 23: *Assembling the pull cord module device panel, device panel gasket, front panel and device frame with Pull Cord Module*

Important information: Improper installation of the gasket can cause damage to the gasket, so that the assembly is no longer sealed.

Take the Pull Cord Module installed in the device frame in section 3.10 and remove the breakout at the predetermined breaking point on the pull cord *(Figure 24)*. Untie the knot on the pull cord in the upper red plastic sleeve *(Figure 25)* and pull the sleeve off. Pull the loose end of the pull cord through the hole in the Pull Cord Module device panel *(Figure 23*). Insert the loose end of the pull cord back into the red plastic sleeve and knot it again. Press the two plastic sleeves firmly together again.

Important information: During assembly, ensure that the pull cord is not jammed between the front panel and the device. After assembly, check that the module functions correctly by repeatedly pulling the pull cord and triggering the switch. If installed correctly, you should feel a pressure point when pulling and the pull cord should automatically return to its original position.

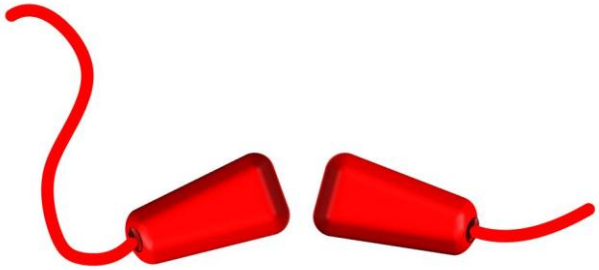


Figure 24: *Removing the breakout*

Figure 25: *Knot in the plastic sleeve*

Push the device frame over the 4 threaded bolts from the rear *(Figure 23)*.

Important information: Please ensure that the Pull Cord Module is correctly aligned. The upper and lower struts of the device frame must be aligned horizontally to the front panel *(Figure 23)*. In addition, the acrylic glass light guide on the device panel must lie precisely on the LED of the Pull Cord Module.

Screw the entire combination onto the M4 threaded bolts of the device panel using the 4 safety nuts supplied *(Figure 23)*. When mounted correctly, the device panel and the front panel must be flush.

Important information: Excessively tightening the M4 safety nuts can cause deformation of the device panel.

3.13 Earthing

The AVS system can be earthed as an option. To do this, use an M4 ring cable lug and fasten it to one of the four M4 threaded bolts using the M4 safety nut and a spring washer (not included in the set) *(Figure 26)*.

Assembly note: The earth connection is identical for all type 1 and type 2 module combinations.

Safety note: Dimensioning and connecting the earth conductor:
NIN, VDE, ESD and other relevant safety regulations must always be observed when dimensioning and connecting the earth conductor. This may only be carried out by specialists.

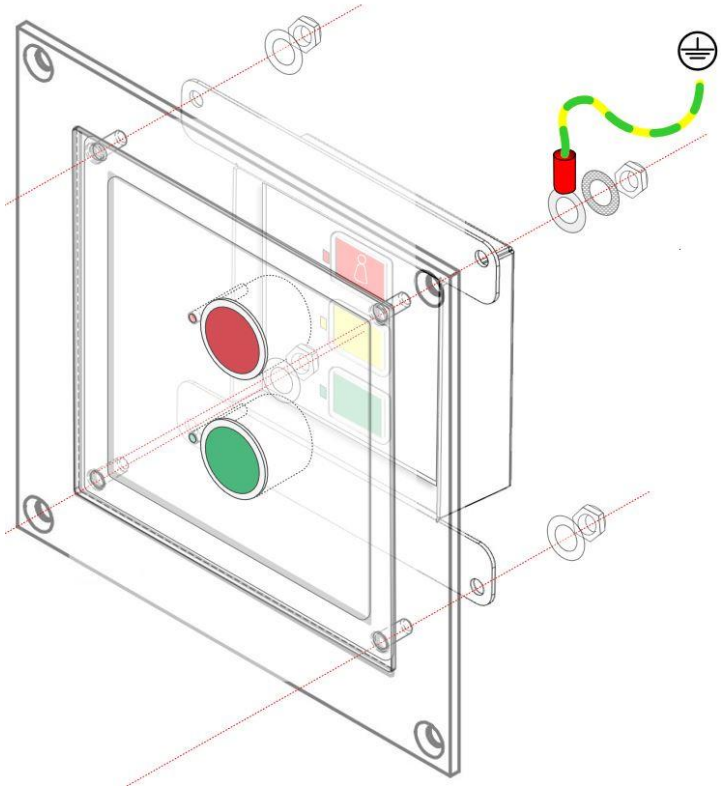


Figure 26: *Earth connection (optional)*

3.14 Installing the finished modules in the installation housing

Insert the supplied 4 M5 3-hole safety screws from the front through the 4 holes of the front panel *(Figure 27)*. Position the front panel seal with the 4 pre-punched holes at the corners over the 4 safety screws from behind *(Figure 27)*.

Important information: Please ensure that the 3 holes pre-punched in the gasket for the sabotage contact are positioned above the corresponding holes in the housing.

Push the front panel with the installed module into the installation housing and screw the front panel onto the housing using the 4 M5 3-hole security screws *(Figure 27)*.

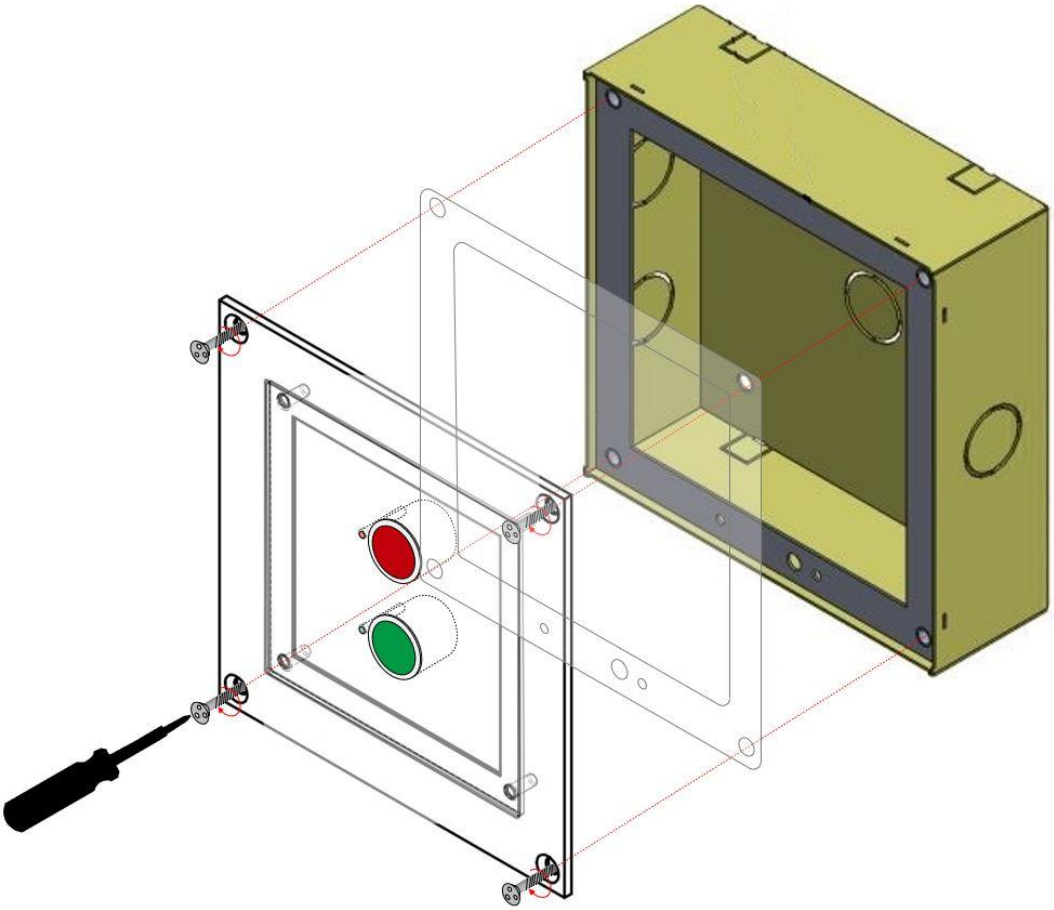


Figure 27: *Assembling the module with the front panel, front panel gasket and installation housing*

Assembly note: The gasket is already glued onto the back of the front panel of the AVS front panel 1 large Art. No. 71000004 and the AVS front panel 2 large Art. No. 71000005 and does not have to be fitted separately. Tighten the 4 safety screws until the seal lies cleanly against the wall and forms a tight seal.

4 Assembling the Room Controller & Slave Lamp housing Art. No. BWGV-71000050

4.1 Installing the NIRC4-WMN Room Controller in the housing Art. No. BWGV-71000050

The Room Controller & Slave lamp housing Art. No. BWGV-71000050 is required for the vandalism-proof installation of the Room Controller. Open the housing by loosening the two safety screws on the side *(Figure 28)*. Remove the mounting plate from the housing cover *(Figure 29)*.

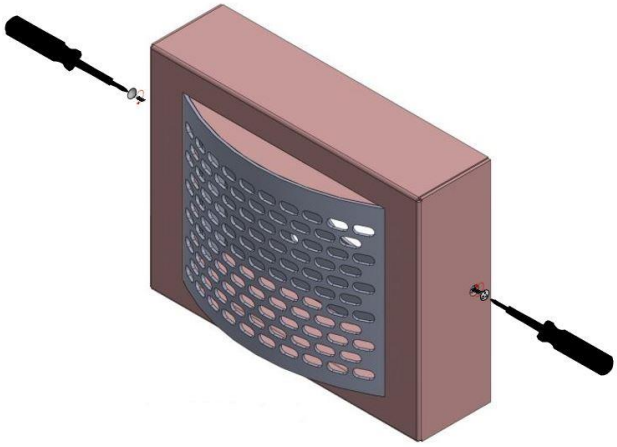


Figure 28: *Opening the housing*

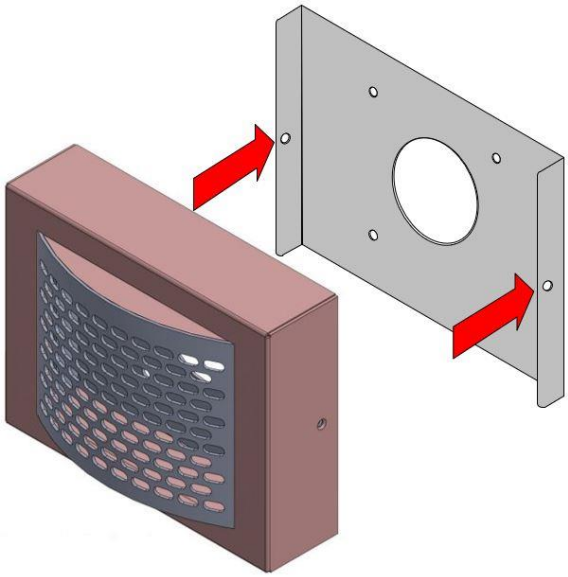


Figure 29: *Separating the mounting plate*

Hold the mounting plate in the position on the wall where the housing will be mounted and mark the 4 drill holes using a pencil or marker (Figure 30). If necessary, drill the corresponding holes in the wall using a drill (max. 6 mm Ø).

Important information: For safety reasons, the housing is not intended to be directly mounted a size 1 flush-mounted box located underneath. To ensure the necessary strength, we recommend mounting the enclosure directly onto the prepared mounting surface (concrete, masonry, etc.) using the 4 mounting points

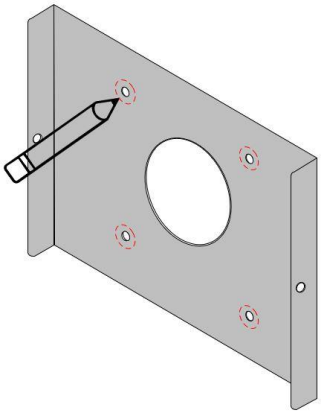


Figure 30: *Marking the drill holes*

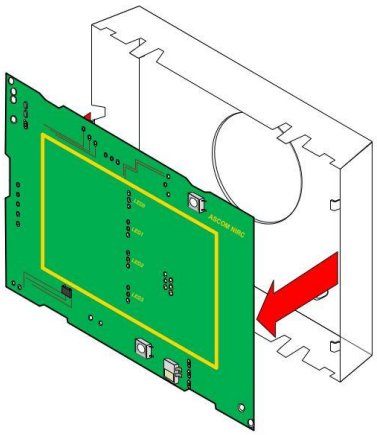


Figure 31: *Removing the PCB*

Open the Room Controller and remove the PCB from the base *(Figure 31)*. Screw the base, together with the mounting plate, onto the wall *(Figure 32)*.
Run the connection cables through the large opening in the middle and connect them to the Room Controller / Corridor Lamp.

Important information: Please refer to the corresponding **ascom** Install Guide TD 93351EN for the correct electrical connection of the Room Controller to the system.

Return the PCB to the base *(Figure 33)* and attach the Room Controller cover *(Figure 34*). Fasten the housing cover over the mounting plate (Figure 35) and secure it using the 2 safety screws *(Figure 36)*.

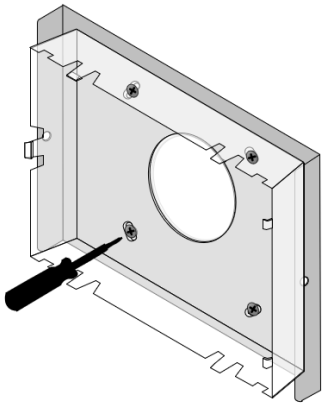


Figure 32: *Mounting the mounting plate and base*

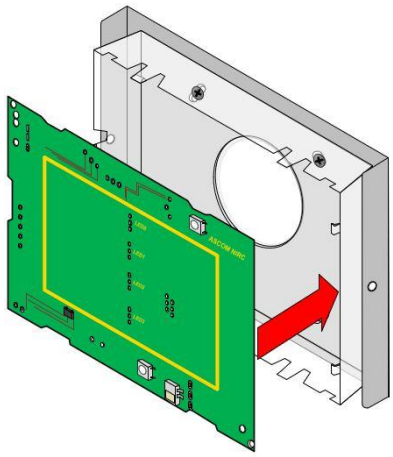


Figure 33: *Inserting the PCB*

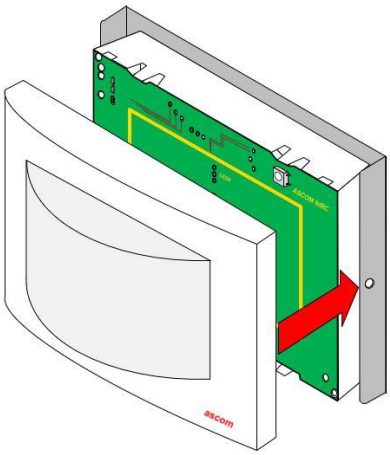


Figure 34: *Mounting the Room Controller cover*

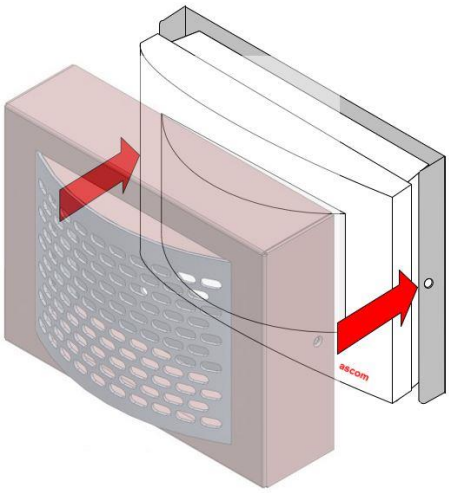


Figure 35: *Fitting the housing cover*

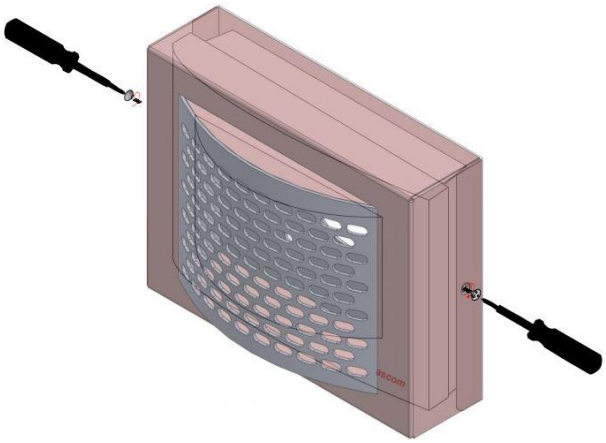


Figure 36: *Securing the housing cover*

Important information: After assembly, check that the Room Controller functions correctly. To do this, trigger a call or presence and check whether the indicator lamp is working.

4.2 Installing the 4 NICL4-WSA Corridor Lamp in the housing Art. No. BWGV-71000050

To install the **ascom** Corridor Lamp in the device frame BWGV-71000050, please proceed as described in section 4.1.

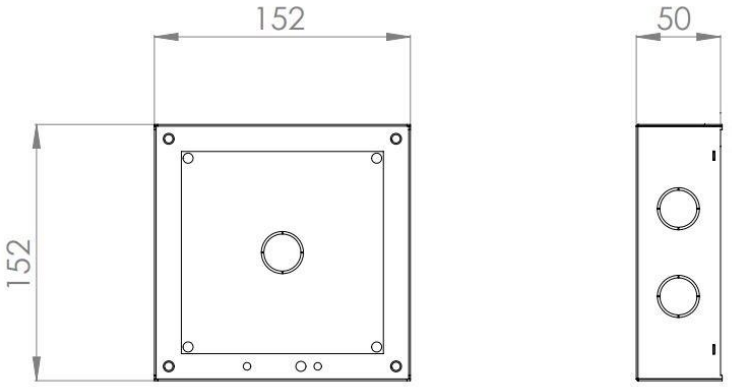
5 Article

5.1 Article and spare parts list:

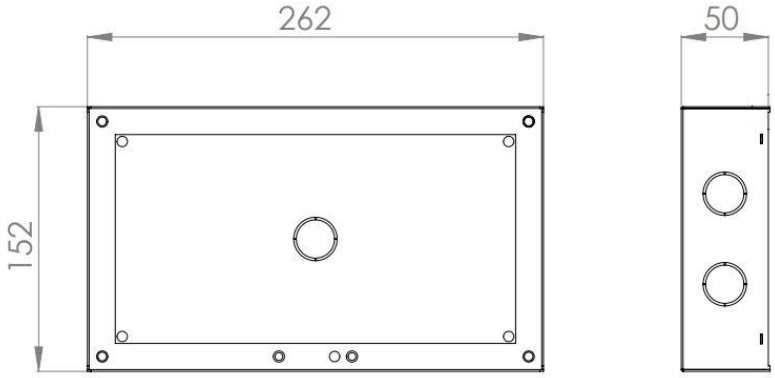
Article number	Designation
Main article	
BWGV-71000000	AVS installation housing type 1
BWGV-71000001	AVS installation housing type 2
BWGV-71000002	AVS front panel type 1 incl. gaskets
BWGV-71000003	AVS front panel type 2 incl. gaskets
BWGV-71000004	AVS front panel type 1 large (incl. gaskets)
BWGV-71000005	AVS front panel type 2 large (incl. gaskets)
BWGV-71000006	AVS device frame
BWGV-71000007	AVS pull cord device frame
BWGV-71000008	AVS call button/presence module device panel
BWGV-71000009	AVS call button module device panel
BWGV-71000010	AVS speech module device panel
BWGV-71000011	AVS dummy module device panel
BWGV-71000012	AVS pull cord module device panel
Spare parts	
BWGV-71000020	AVS button sleeve
BWGV-71000030	AVS front panel gasket type 1 (single)
BWGV-71000031	AVS front panel gasket type 2 (single)
BWGV-71000032	AVS front panel gasket type 1 large (single)
BWGV-71000033	AVS front panel gasket type 2 large (single)
BWGV-71000034	AVS device panel gasket (single)
Room Controller	
BWGV-71000050	AVS housing for Room Controller & Slave Lamp
Accessories	
BWGV-71000060	AVS concrete mounting set
BWGV-71000115	AVS sabotage contact

6 Technical Drawings / Dimensions

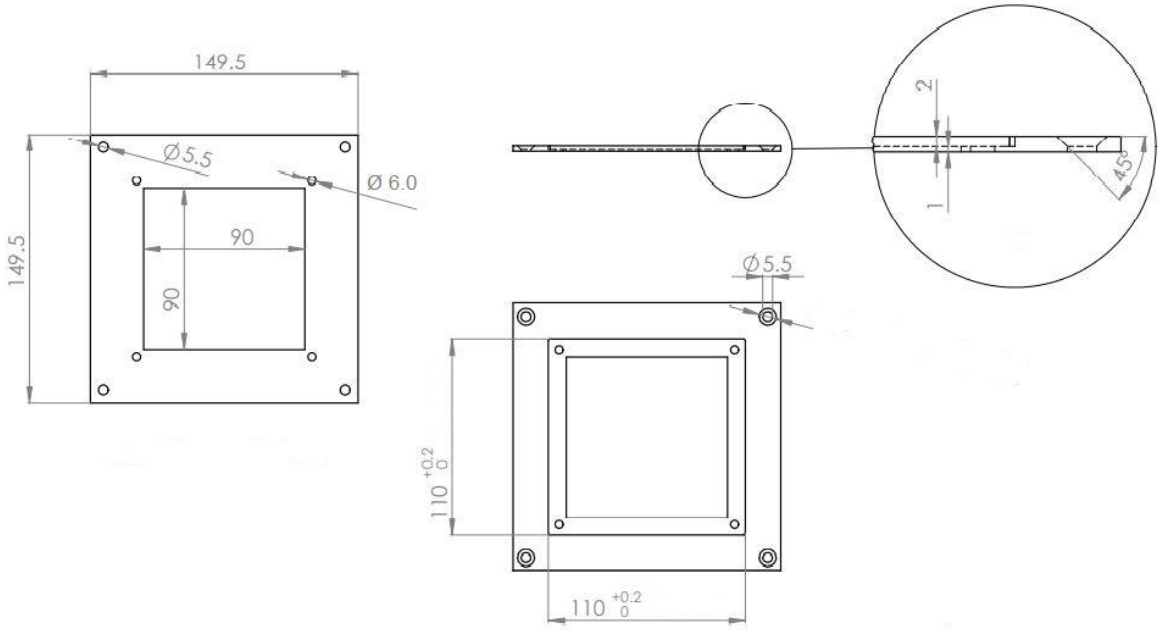
6.1 AVS installation housing type 1 BWGV-71000000



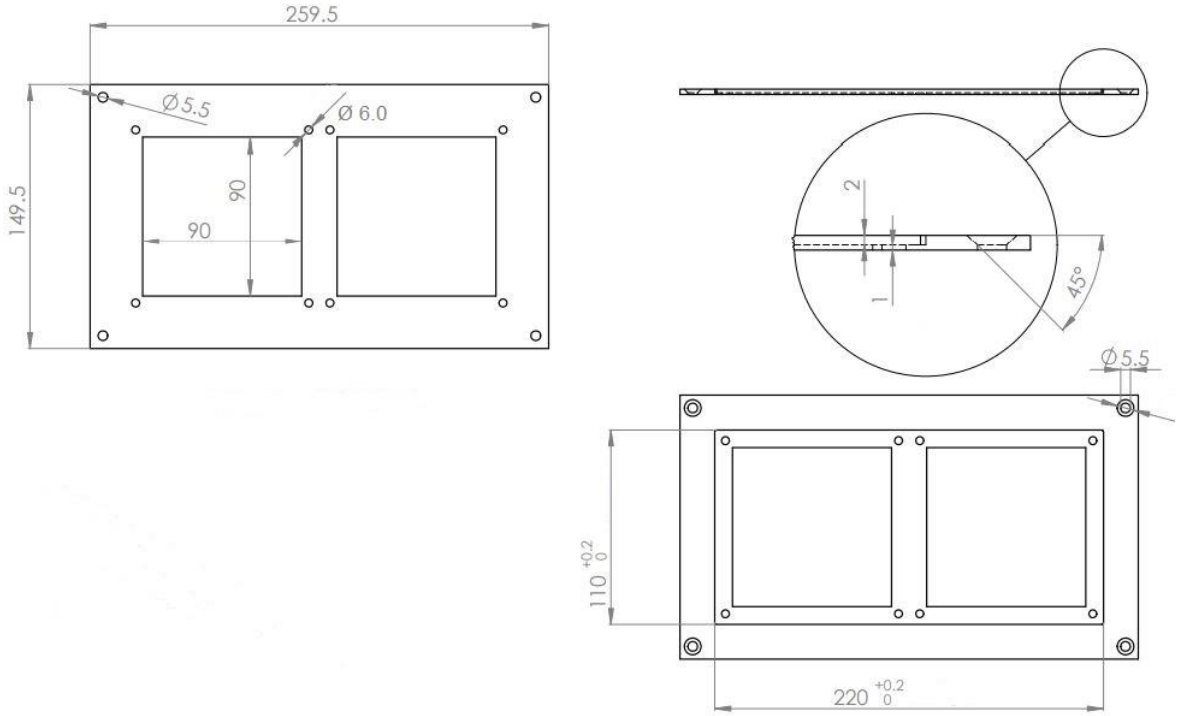
6.2 AVS installation housing type 2 BWGV-71000001



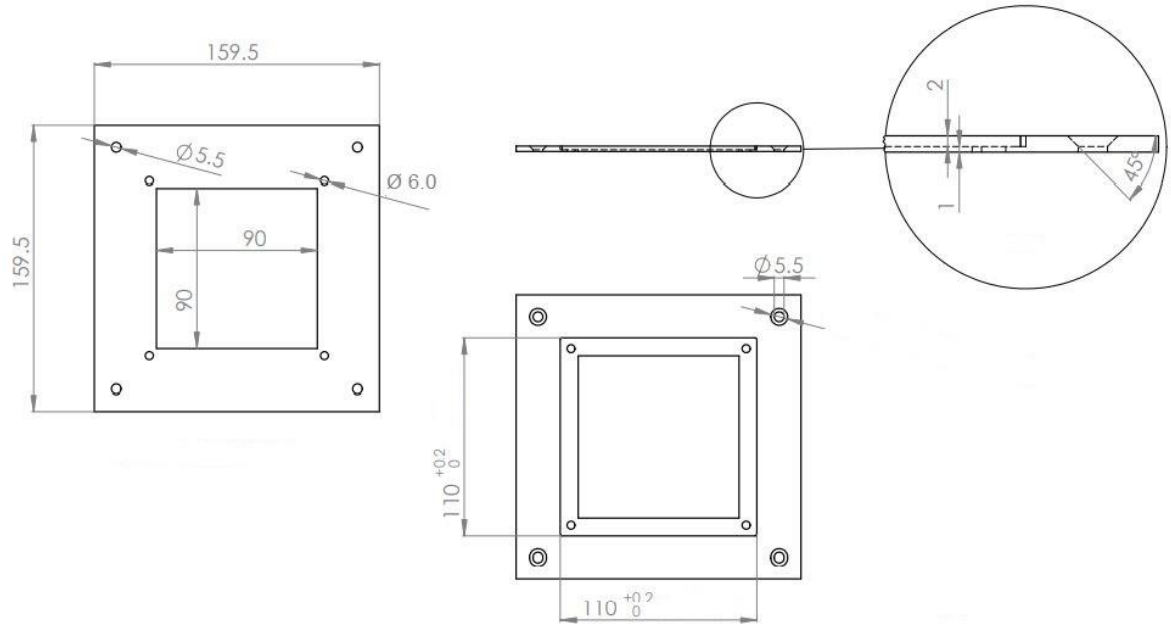
6.3 AVS front panel type 1 incl. gaskets BWGV-71000002



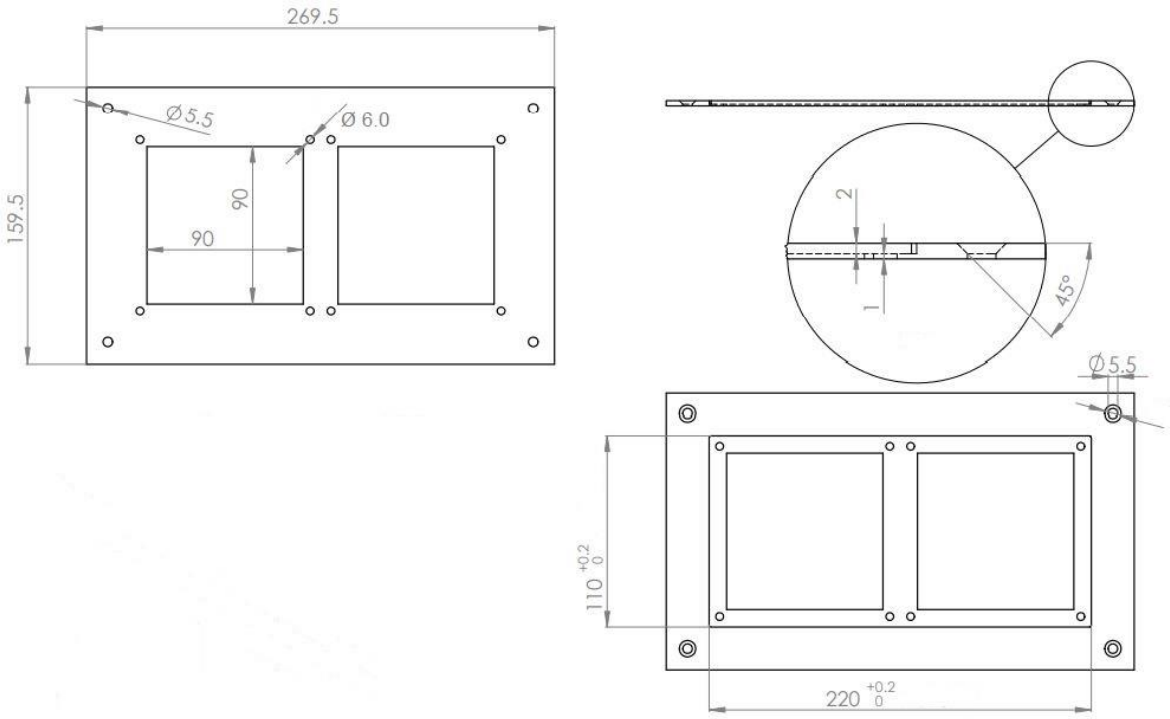
6.4 AVS front panel type 2 incl. gaskets BWGV-71000003



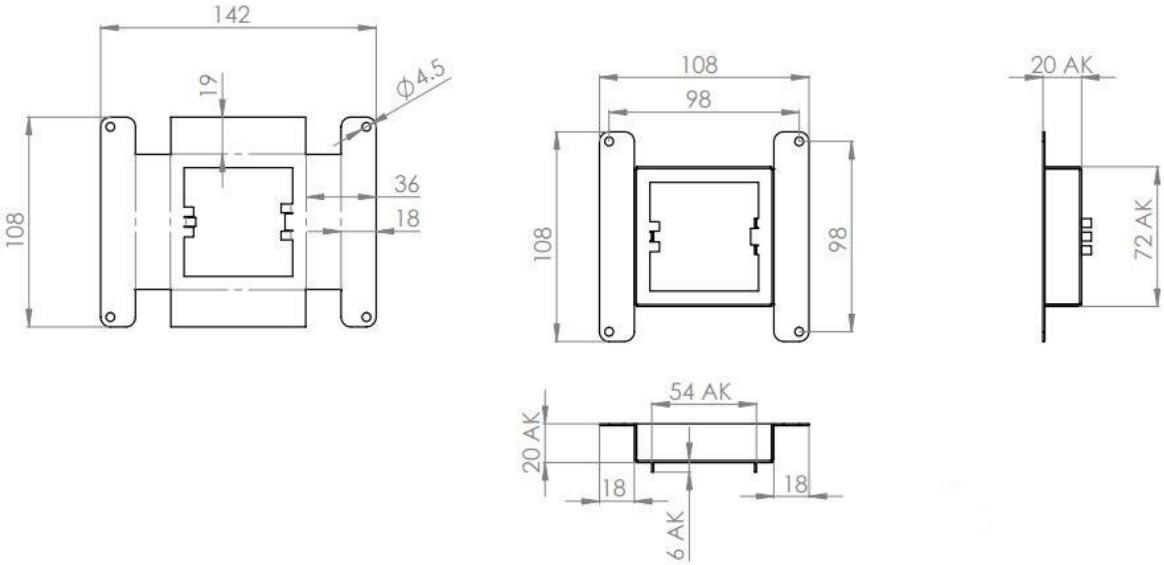
6.5 AVS front panel type 1 large incl. gaskets BWGV-71000004:



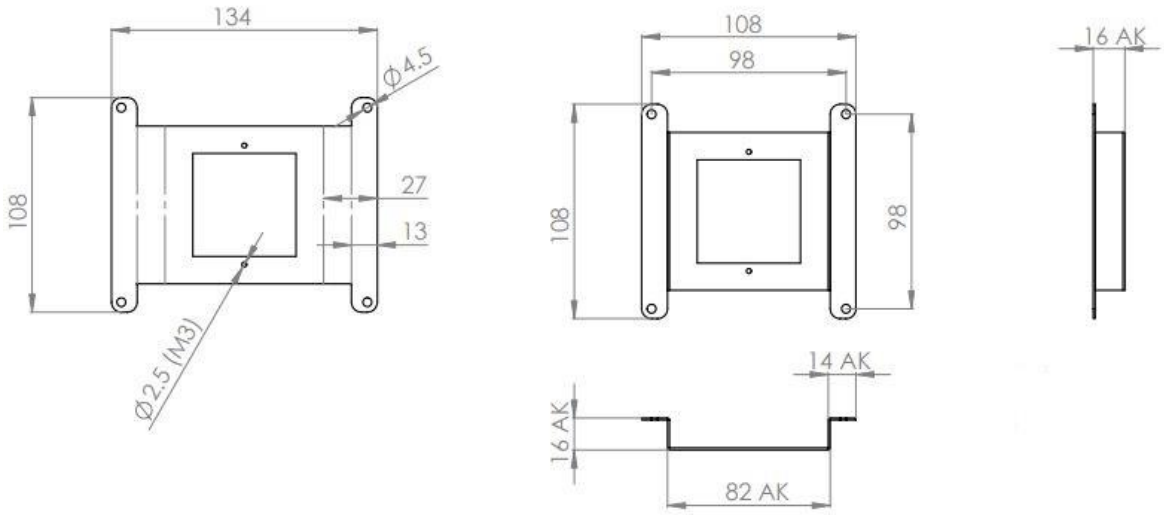
6.6 AVS front panel type 2 large incl. gaskets BWGV-71000005:



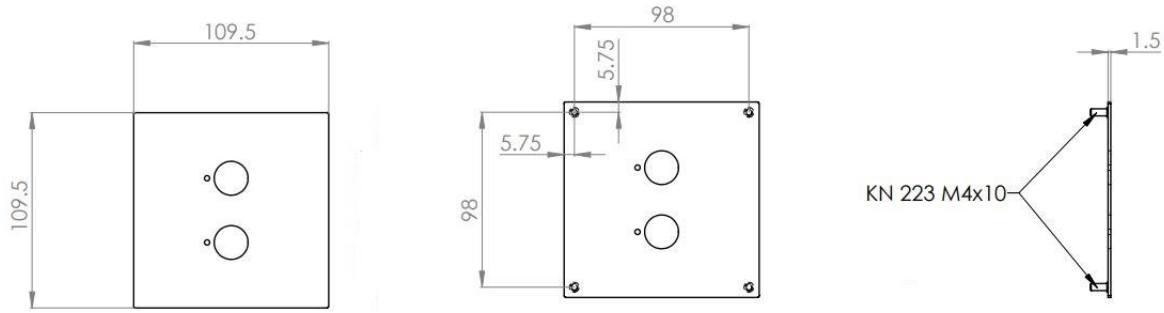
6.7 AVS device frame BWGV-71000006



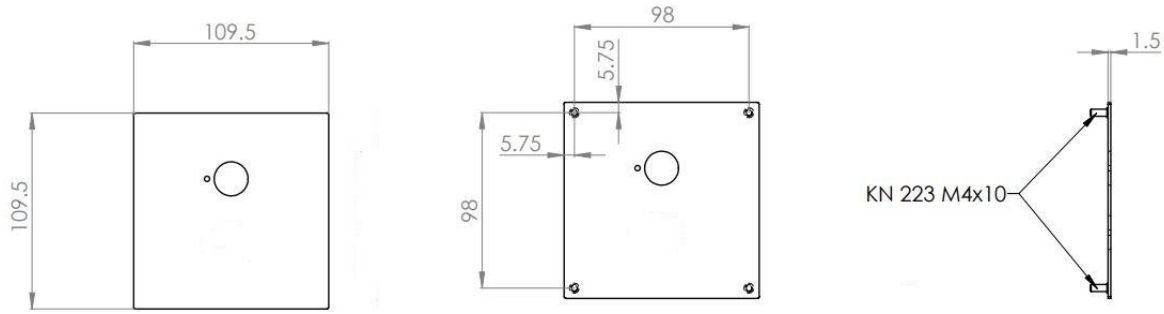
6.8 AVS pull cord module device frame BWGV-71000007



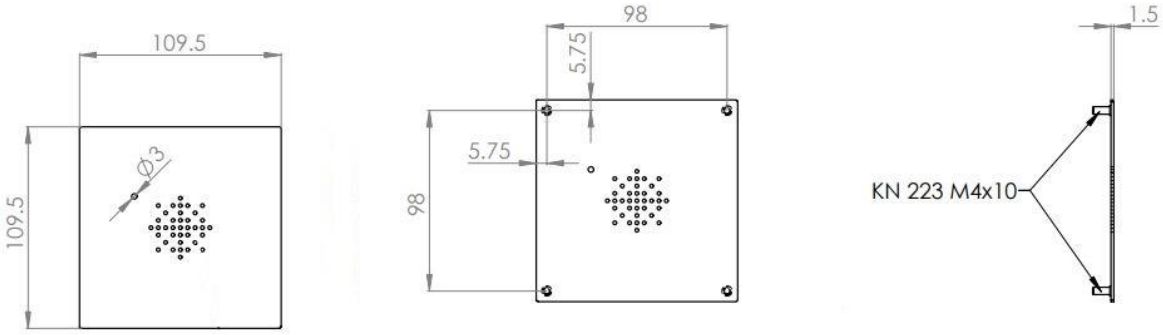
6.9 AVS call button/presence module device panel BWGV-71000008



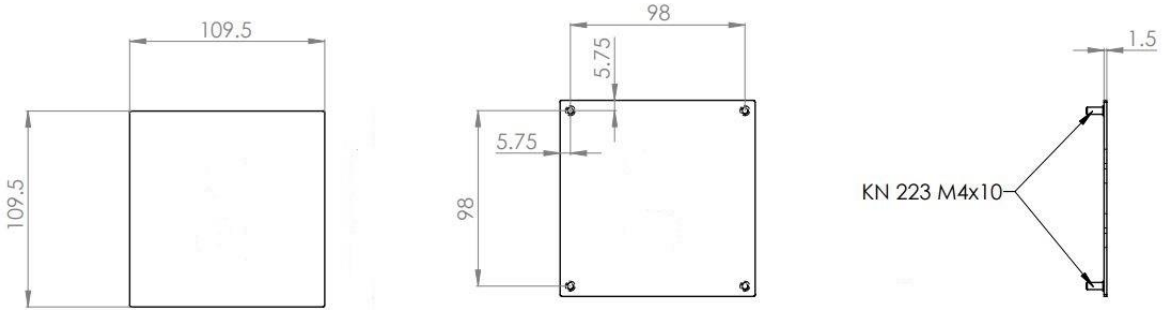
6.10 AVS call button module device panel BWGV-71000009



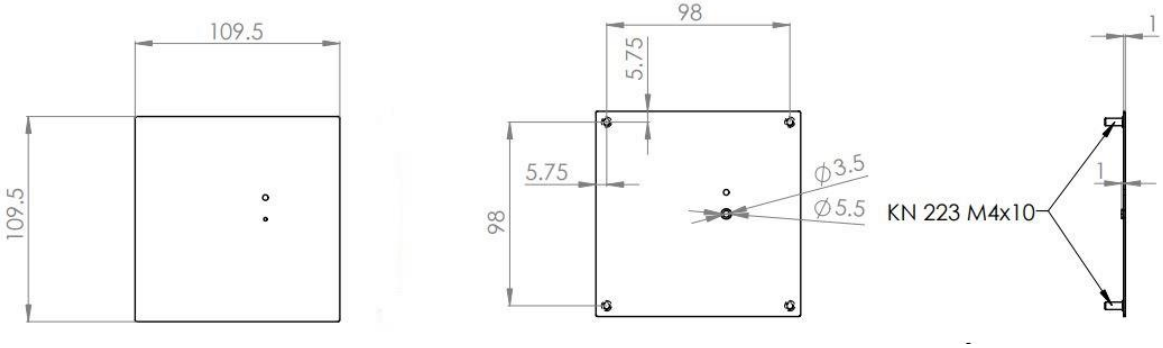
6.11 AVS speech module device panel BWGV-71000010



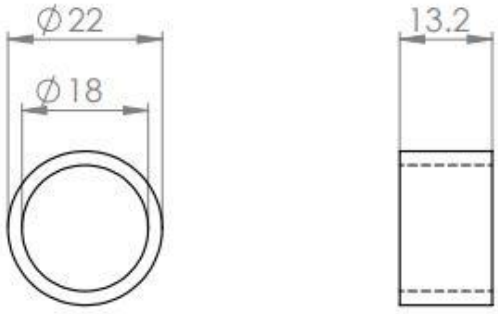
6.12 AVS dummy module device panel BWGV-71000011



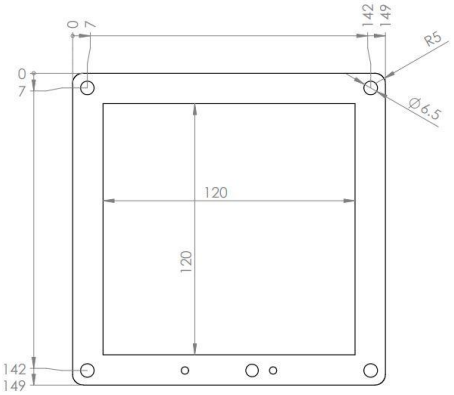
6.13 AVS pull cord module device panel BWGV-71000012



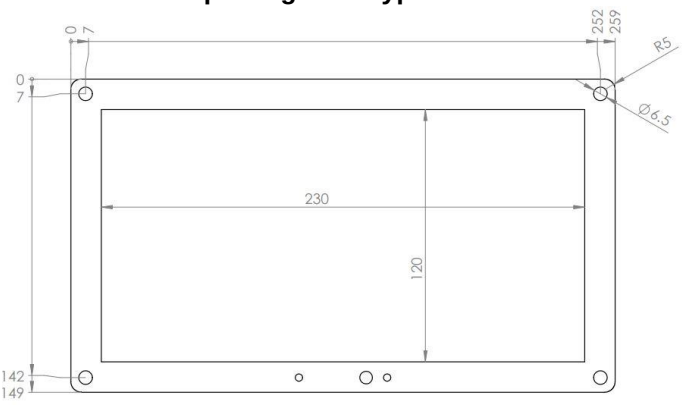
6.14 AVS button sleeve BWGV-71000020



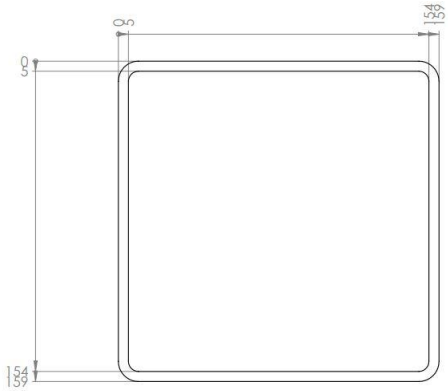
6.15 AVS front panel gasket type 1 BWGV-71000030



6.16 AVS front panel gasket type 2 BWGV-71000031

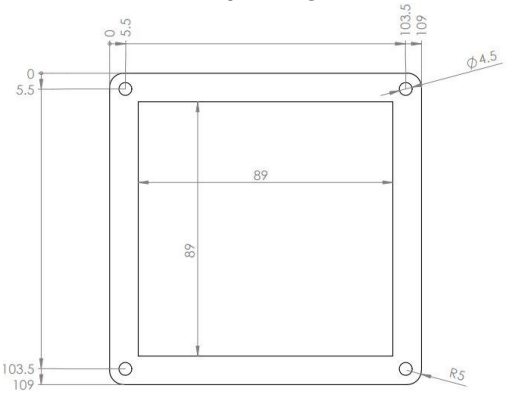


6.17 AVS front panel gasket type 1 large BWGV-71000032

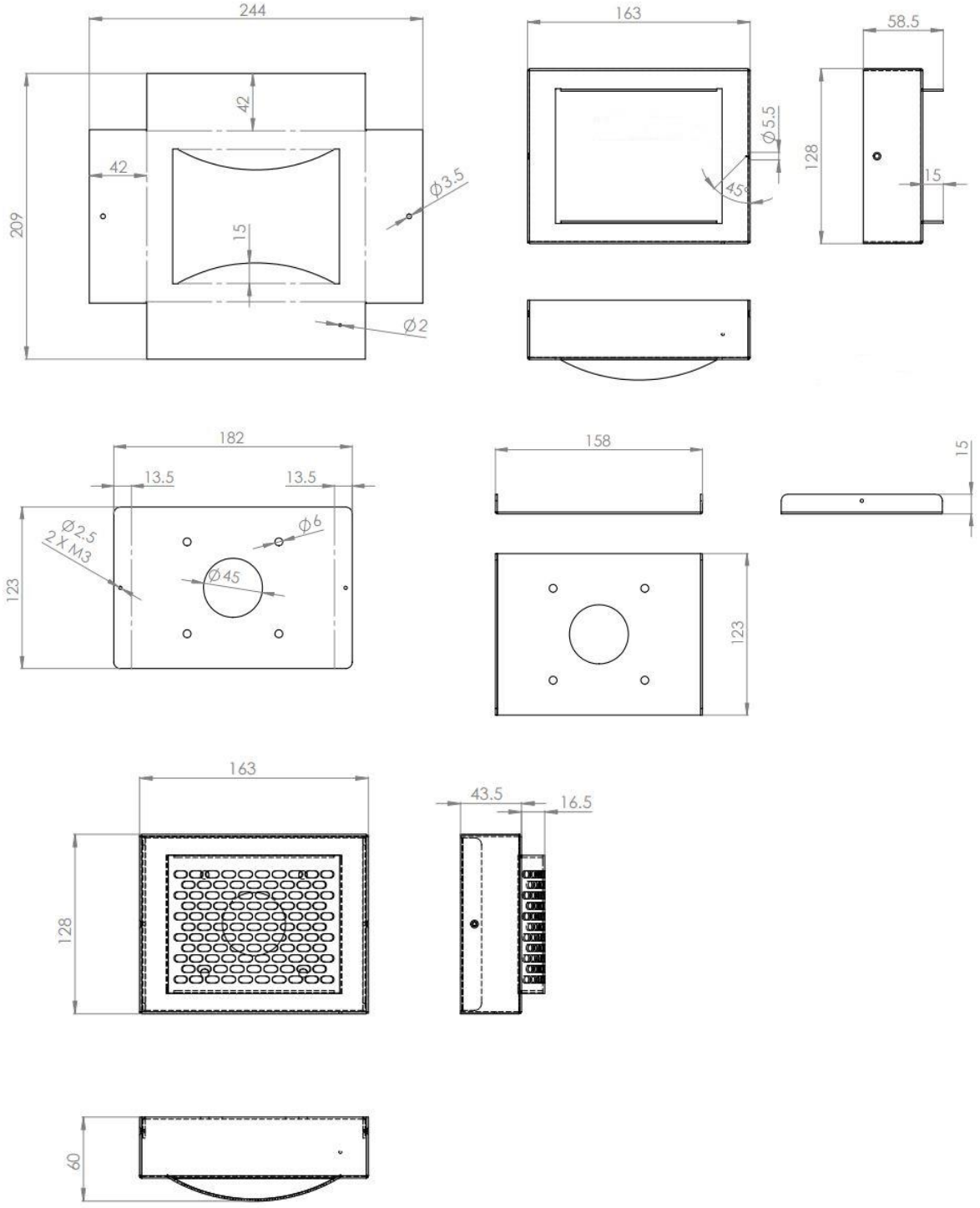


6.18 AVS front panel gasket type 2 large BWGV-71000033

6.19 AVS device panel gasket BWGV-71000034



6.20 AVS Room Controller & slave lamp housing BWGV-71000050



7 Product specifications

7.1 Material specifications

Metal:	CNS-14301 / 1.5 - 3 mm stainless steel / glass bead finish
Switches / buttons:	Vandal-proof push-button Type: Schurter MSM19 1241.6621.1110000
Screws / nuts / washers:	INOX A2
Concrete mounting set countersunk pin:	Bare steel
Concrete mounting set washer:	Polyamide
Light guide:	Clear acrylic glass
Gaskets:	FPM fluoro rubber / CR cellular rubber
Dimensions:	* see technical drawings/dimensions
HS code 7326.9034 Country of origin: Switzerland	

Old electrical appliances must not be disposed of in household waste. Every consumer is legally required to dispose of old appliances separately from household waste and to hand them in at a collection point, for example. These appliances will be accepted there and disposed of in an environmentally friendly manner.