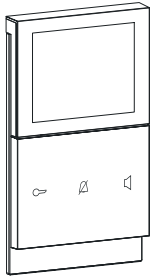


6LE001303B

2D



GB

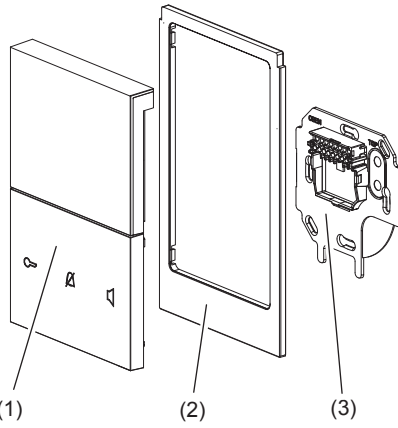


Figure 1: Design and layout of the device

- (1) Indoor station (application module with display and control unit)
- (2) Design frame, large version (with REK6..Y included in scope of delivery)
- (3) Supporting plate with connection terminal block

Function

The indoor station video is a device for the 2-wire bus system. It can communicate with door stations and further indoor stations in sound and image and unlock door releases.

Correct use

- for surface-mounting on a flat surface or for mounting on a wall box according to DIN 49073
- only suitable for use in indoor areas with no drip and no spray water
- not suitable for video monitoring
- not compatible with intercom systems of other manufacturers

Product characteristics

- illuminated 3.5" TFT colour display
- touch control panel with 3 illuminated symbol buttons and 3 menu operation buttons
- slide control surface for menu access
- menu in 5 languages
- ring tone volume and microphone sensitivity settable
- hands-free or Push-to-Talk
- 16 ring tone melodies, individually assignable
- connection for storey bell push-button
- storey call forwarding
- parallel operation (a total maximum of 3 identically addressed indoor station)
- internal calls to other indoor stations
- camera can be switched on manually
- light relay contact of the line power supply controllable

Display elements and operating concept (Figure 2)

The indoor station video has a display (4) for displaying camera pictures and the device menu.

The underlying control panel has 6 buttons and a slide control surface. Each of the 6 buttons on the control panel corresponds to a touch-sensitive surface. To trigger its function, it needs a push-button press with tactile feedback. The touch-sensitive slider (10) responds to horizontal wiping movements.

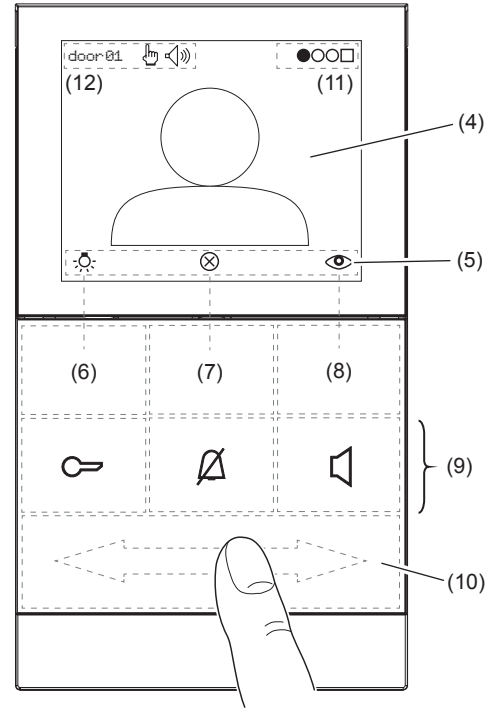


Figure 2: Operating and display elements

- (4) Display
- (5) Icon bar - displays the current assignment of the three menu operation buttons (6, 7 and 8)
- (6) } Menu operation buttons (softkeys) (Table 2)
- (7) }
- (8) }
- (9) Symbol buttons - illuminated, with fixed functions (Table 1)
- (10) Menu slider - for menu access and page change
- (11) Menu position display ○●○○□ (Table 3)
- (12) Display of door type/door address

Safety instructions

Electrical equipment may only be installed and assembled by a qualified electrician in accordance with the relevant installation standards, guidelines, regulations, directives, safety and accident prevention regulations of the country.

When installing and laying cables, always comply with the applicable regulations and standards for SELV electrical circuits.

These instructions are an integral component of the product and must be retained by the end user.

Symbol buttons for main functions

Symbol button LED	Function State
door opener button <i>lights up</i>	unlock door <i>door can be unlocked</i>
mute button <i>flashes</i>	mute ring tone <i>ring tone muted</i>
speech button <i>flashes</i> <i>lights up</i>	accept call, end call <i>incoming call</i> <i>call in progress</i>



Table 1: Symbol buttons with LEDs

i In addition, the symbol buttons do give an acoustic feedback after actuation (1 acknowledge tone = function available; 3 short tones = function not available).

Switching on device/activating display

The indoor station is in standby mode.










- Press any menu operation button (6, 7 or 8).

An acknowledge tone sounds and the display is initialised. After a slight delay, the start page with a light  and on/off symbol , appears on a black background or with a video image (**manual on**) depending on the configuration.

- If the device was configured for internal calls, the menu page **special functions** appears as the start page.
- During an incoming call, the device switches on automatically.

Menu operation buttons (Softkeys) and icon bar

The functions displayed in the icon bar (5) are triggered with the menu operation buttons (6),(7),(8) (Table 2).

Softkey	Symbol	Function
(6)		switch-on light ^{1), 3)}
		selection/scroll down
		setting/decrease value
(7)		switch off display (stand-by)
		selection/scroll up
		setting/increase value
(8)		switch on/select camera ^{2), 3)}
		confirm selection
		apply the setting

- ¹⁾ requires a corresponding installation
- ²⁾ requires a corresponding default setting
- ³⁾ with acknowledge tone

Table 2: Menu operation buttons (Softkeys)

Menu access and page change

The menu consists of 4 to 6 pages depending on the activated special functions and service functions. You access and toggle with the menu slider (10) by wiping your finger horizontally on the touch-sensitive surface (Figure 3).

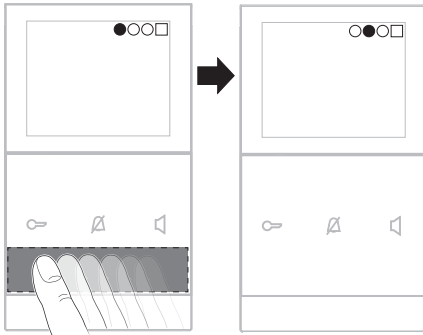








Figure 3: Menu page change

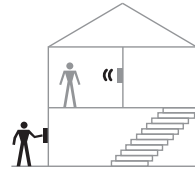
The menu position display (11) shows the current position during the page change.

Menu position display (11)	Menu page
	(start page)
	special functions ⁴⁾
	audio settings
	video settings
	service ⁴⁾ (expanded settings)
	no problem (save/load settings)

- ⁴⁾ lockable; only appears if activated



Table 3: Menu pages overview

Application 1: door call




Outside on the door station the assigned call push-button is pressed.



The indoor station signals a door call:


- The ring tone melody sounds.
- The LED  flashes and the LED  lights up.
- If a camera is installed, the display shows the video image of the calling door station. In the upper left (12) **door** appears with address, e.g. *door 01*.

- The indoor station signals the door call for a max. of 90 seconds.

Accepting door call and establishing call

- Press the speech button .


A call to the door station is established. The LED  lights up permanently. The call connection is established (max. call duration 3 minutes). The Display shows the  symbol.

- To end the call, press the speech button  again.

Call connection and video connection are terminated.


or:

Open door

- Press the  button to activate the door release.


The door of the calling door station is unlocked and can be opened. An ongoing call is terminated automatically approx. 10 seconds after the unlocking.

- Direct door release: In systems with only one door station, the door can be unlocked even without a preceding door call if the door station has been configured accordingly.

- Switch on light .

The light (e.g. stair light) can be switched on if the associated automatic light is connected to the line power supply with relay.

The display shows the start page.





- Press menu operation  button (6).
The light is switched on¹⁾.

- ¹⁾ requires a corresponding installation

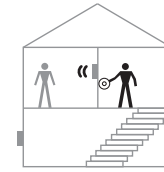
Mute ring tone

The ring tone can be muted if necessary.

The indoor station is in standby mode.

- Press the mute  button.
The LED  flashes. The ring tone melody is deactivated.
- Press the mute  button once again.
The LED  goes out. The ring tone melody is reactivated.
- The mute function should only be used as briefly as possible in order not to miss any door calls.

Application 2: Storey call



If the storey bell push-button connected to the indoor station is pressed, a storey call is signalled:

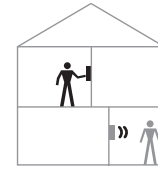
The ring tone melody for the storey call sounds on the indoor station.

The display shows: **storey door**

- If, in the apartment or building unit (i.e. in the same system branch), up to 2 further, identically addressed indoor stations are installed, these also signal the storey call (storey call forwarding⁵⁾).

- ⁵⁾ requires the appropriate default setting by the installer (see setting operating modes)


Application 3: Internal call²⁾

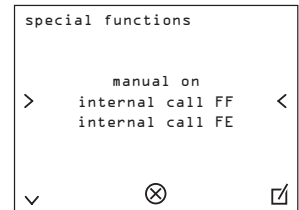





In the door communication system, internal calls from indoor station to indoor station are possible. Unlike comfort indoor stations only the fixed addresses *F/F* and *F/E* are available as call destination for the internal call.

Initiating internal call

The display is switched on and shows the start page. The internal call address *F/F* or *F/E* is set on the indoor station to be called.

- With the menu slider (10) load the **special functions**  menu page by wiping once from right to left.




- Select **internal call FF** with  /  (6) and press  (8) to call the indoor station with address *F/F*.

or:

- Select **internal call FE** with  /  and press  to call the indoor station with address *F/E*.

The display shows: **internal**

If the internal call on the indoor station receiving the call is accepted, the call connection is established.

- Pressing the  speech button again terminates the connection on one of the two indoor stations.

- ²⁾ requires the appropriate default setting by the installer (see expanded settings)

Settings

On the menu pages 3 to 6 (Table 3) individual settings can be made.

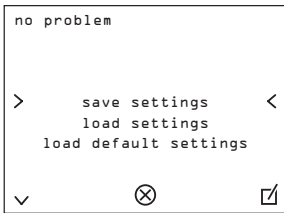
Changing settings

The device is switched on.

- With the menu slider (10) load the required menu page by wiping repeatedly (Table 3).
- Press menu operation buttons ∇ / \wedge to select the parameter to be changed and confirm with \checkmark .
- With the menu operation buttons $+/-$ perform the desired settings (stepwise or hold down the button).
- Press **OK** to apply the settings.

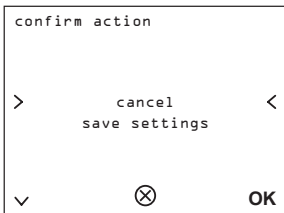
Save/load settings

On the **no problem** $\bigcirc \bigcirc \bigcirc \bigcirc \blacksquare$ menu page press **save settings** to save the individual settings and press **load settings** to reload them at a later time.



- Select the desired option with ∇ / \wedge and confirm with \checkmark .

A prompt appears:



- Press ∇ to select the action again and press **OK** to execute it.

or:

- Press **OK** to cancel the action.

- The **load default settings** option restores the state that the device had when handed over by the installer.

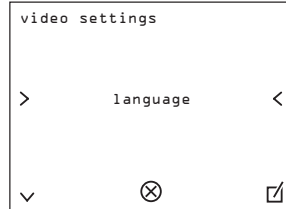
Display Settings

Selecting language

The menu language is preset to English at the factory. Under **video settings** it can be changed.

- To switch on the device, press any Softkey (6, 7 or 8), if this has not yet been done.
- On the menu slider (10) wipe twice from right to left.

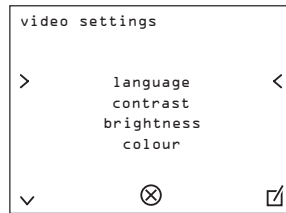
The **video settings** $\bigcirc \bigcirc \bigcirc \bullet \bigcirc \square$ menu page appears.



- Confirm **language** with \checkmark .
The list of available languages is displayed.
- Press the ∇ / \wedge menu operation buttons to select the language and confirm with **OK**.

Set display

In idle mode (display switched on, no call) under **video settings** $\bigcirc \bigcirc \bigcirc \bullet \bigcirc \square$ only the language can be selected at first. If a camera picture is shown in the display, then the **contrast**, **brightness** and **colour** of the display can also be adjusted incrementally.



- Press ∇ / \wedge to select the parameter to be changed and confirm with \checkmark .
- Press $+/-$ to perform the desired settings and press **OK** to apply them.

Audio settings

Under **audio settings** $\bigcirc \bullet \bigcirc \bigcirc \square$ the ring tone volume and microphone sensitivity can be adjusted. Here too, ring tone melodies can be selected and assigned to calling stations.



Setting the microphone sensitivity

In hands-free mode, the changeover between listening and speaking takes place automatically depending on the volume. The changeover behaviour can be optimised by adjusting the microphone sensitivity. As a result, the influence of background noise in the area of the indoor station can be reduced.

The adjustment can best be performed during an active call.

- Under **audio settings** select the **microphone** option.
- Press $+/-$ to adjust the microphone sensitivity incrementally.
- Press **OK** to apply the settings.

Activating Push-to-Talk

In **Push-to-Talk** mode the changeover between listening and speaking takes place manually with the speech button.

Speech button \sphericalangle	Function	Display
keep pressed	speak	\uparrow \gg
release	listen	\uparrow \ll

- During an active call connection, keep the \sphericalangle button pressed for more than 2 seconds.

For the current call, hands-free mode is changed to Push-to-Talk mode. The display shows the \uparrow symbol.

- To end the call, press the softkey \otimes .

Selecting and assigning ring tone melodies

You can choose from 16 different ring tone melodies. Individual ring tone melodies can be assigned for door calls, storey calls and internal calls.

The indoor station creates a *ring melody* entry for each calling station or for the connected storey push-button when an incoming call is received for the first time. The assigned melody can be loaded and changed via this entry under **audio settings**.

- Press ∇ / \wedge to select the *ring melody* entry (e.g. *ring melody door x1*) and confirm with \checkmark .

The melody assigned to the station sounds.

- Press $+/-$ to listen to other ring tone melodies until the desired melody sounds.

- Press **OK** to assign the ring tone melody.

- Afterwards, another call event can be generated, e.g. storey call, and a separate ring tone melody can be assigned to this according to the same procedure.

Increasing/decreasing ring tone volume

Under audio settings the **ring tone volume** can also be adjusted in 3 levels.

Information for electricians

Addressing and pre-settings

The device addressing and setting of the operating modes must already be carried out prior to installation using the rotary switch and DIP-switch on the back of the device (Figure 4).

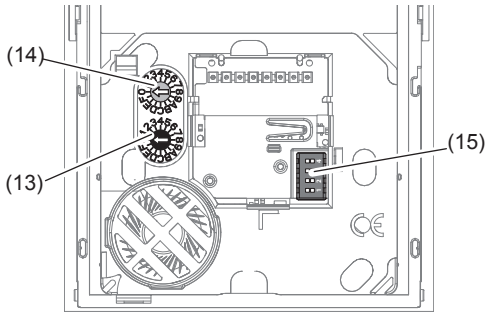


Figure 4: Rear view of the control unit

(13) Address rotary switch (black) for group address

(14) Address rotary switch (blue) for intercom device address

(15) DIP-switch for operating modes

Addressing the device

The indoor station can be addressed quickly and easily using both address rotary switches (13), (14). The address to be set is 2-digit, comprising group address and intercom device address. It must be identical with the address of the associated call push-button on the door station. Figure 5 shows the structure of the address by way of example:

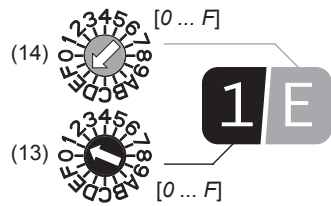


Figure 5: Example address "1/E"

- On the black rotary switch (13) set the **group address** [0 ... F].
- On the blue rotary switch (14) set the **intercom device address** [0 ... F].

■ A maximum of 3 indoor stations with the identical address setting may be installed for the parallel operation.

■ For door stations with automatic call push-button addressing also see operating instructions of the door station. For door stations with push-button interface/expander see operating instructions of the interface.

Setting operating mode

- Set the **DIP-switch for operating modes** (15) according to Table 4.

Switch	Function (Factory setting = OFF)
1	OFF Hands-free mode: automat. Half duplex, switchable to Push-to-Talk via speech button
	ON Push-to-Talk: manual half duplex speech mode, set permanently
2	OFF Storey call forwarding blocked
	ON Storey call forwarding to max. 2 indoor stations with the same address in the same branch
3	OFF Menu service available
	ON Menu service blocked, is not displayed
4	OFF Normal operation, no parallel call to intercom device address 0
	ON Parallel call to intercom device address 0 with identical group address

Table 4: DIP-switch settings

Installation and electrical connection

The supporting plate (3) must be mounted on the wall before wiring.

Mounting the supporting plate

A 2-wire bus cable, and if necessary, a connection cable of the storey push-button are laid to the mounting location.

■ Recommended installation height: 1.5 m.

■ Separate supporting element (16) on the pre-determined breaking point from the supporting plate.

For installation on a wall box (Figure 6):

■ Mount the supporting element (16) onto wall box so that the smooth surface is pointing straight ahead and the outer cable tie mounts (17) are lying on the screw domes of the wall box.

■ Pre-align supporting element with 2 screws.

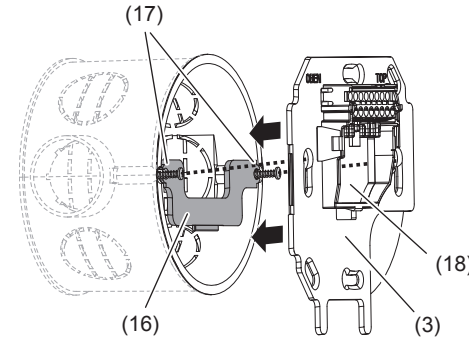


Figure 6: Installation on a wall box

(16) Supporting element

(17) Cable tie mounts

(18) Opening to the cable bushing

For surface-mounting without wall box:

■ Mark the fixing holes with supporting plate (3). Observe alignment marks.

■ Drill fixing holes and insert dowels.

For both installation modes:

- Run the stripped 2-wire bus cable through the middle opening (18) of the supporting plate.
- Also run the connection cable of the associated storey push-button through.
- Mount the supporting plate (3) onto the wall or wall box with at least 2 screws. Observe alignment marks.

Connect device

Figure 7 shows a schematic view of the connection from the video indoor stations to the system line power supply:

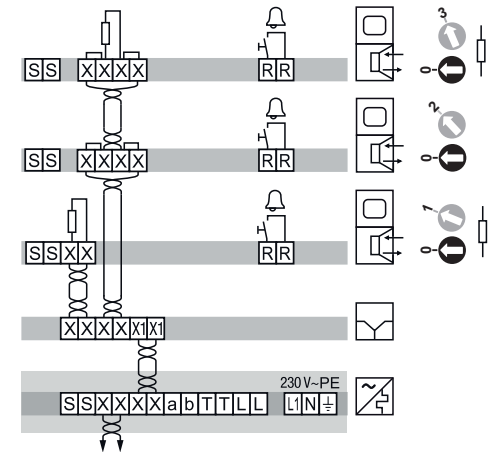


Figure 7: Connection to line power supply



Indoor station video



Video distributor 2gang



Line power supply RMD



Wrapped wire pair for 2-wire devices (recommendation: white/yellow wire pair)

Additional audio and video stations can be connected according to this principle.

■ For detailed system connection diagrams and information about cables see operating instructions of the line power supply.

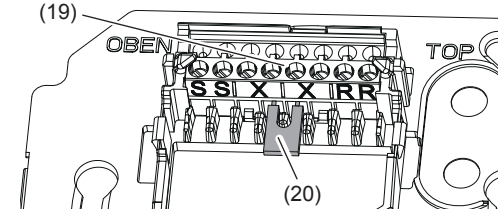


Figure 8: Connection terminal block

(19) Connection terminal block

(20) Terminating resistor/terminator

■ Connect the stripped wires of the 2-wire bus cable to the connecting terminals **X/X**.

■ Both terminals **X/X** are each implemented twice (bridged) for incoming and outgoing 2-wire bus cable (Figure 7).

■ If the indoor station is not the last intercom device in the branch/line, then remove the terminating resistor/terminator (20) from the terminals **X/X**.

■ Connect the associated storey push-button to the connecting terminals **R/R**.

■ The terminals **S/S** are used for connecting the additional power supply, if necessary.

Mounting indoor station (display & operating unit) (Figure 9)

- Mount design frame (2) in correct position on the back of the cover.

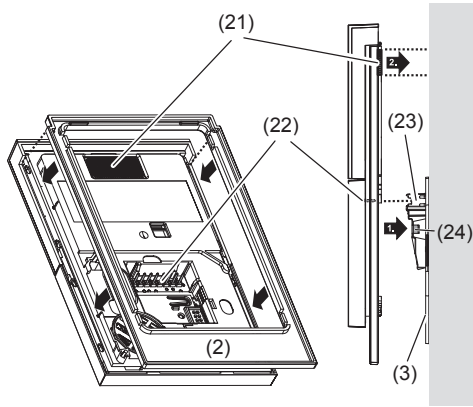



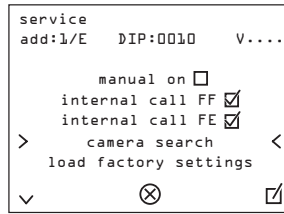
Figure 9: Installation

- (21) Velcro fastening (optional)
- (22) Pin header of the operating unit
- (23) Cable connector of the connection terminal block
- (24) Locking hook

- For installation on smooth walls the velcro fastening (21) may be used. To do this, remove adhesive foil.
- When using the velcro fastening the surface must be clean and free of dust. Do not use on sensitive wallpapers or badly adhering surfaces.
- Align the indoor station (3) so that the backside pin header (22) is pointing to the pin header of the connection terminal block (23).
- Mount the indoor station onto the supporting plate and carefully press on until the locking hooks (24) interlock.
- When using the velcro fastening: Press indoor station above onto the wall at the height of the Velcro fastening.

Expanded settings


The **service**  menu page provides information about the device address, current DIP switch setting and firmware version. It also enables expanded settings.




Allowing/preventing manual switching-on of the camera

The video connection to the video door station is established automatically during the door call and terminated again automatically after the end of the call.

With the **manual on** function it is also possible to enable the camera of the door station that last called to be switched on via the indoor station without a door call.

If the checkmark is set, the camera symbol  appears at the bottom right of the start page.

The camera can be switched on manually with the associated Softkey (8).

If several video door stations or additional cameras are installed in the same line, it is possible to toggle between the camera pictures by pressing  repeatedly.



The device is not suitable for video monitoring!

Searching for cameras

The **camera search** function starts a search to determine all additional video cameras installed in the line.

- Please note: If this function is called, all current door cameras will be deleted from the memory of the indoor station. During the next respective door call, the door cameras are then re-assigned.

Enabling/disabling internal call addresses

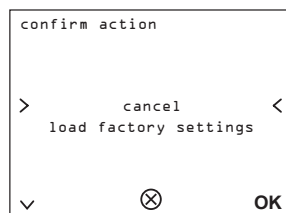
Before using the internal call function, the **internal call FF** options and/or **internal call FE** must be activated on the **service** menu page. If neither of the two internal call addresses was activated, the **special functions** menu page is not available.

Resetting to factory settings

The device software can be reset to factory settings. The DIP-switch configuration remains unchanged.

- Under **service**  press ∇ / \wedge to select the **load factory settings** option and confirm with \boxtimes .

A prompt appears:



- Press ∇ to select **load factory settings** and reset the software with **OK**.

or:

- Press **OK** to cancel the action.

Appendix

Technical data

Supply voltage X/X via bus	22 ... 24 V=
Current consumption (operation)	max. 220 mA
Current consumption (Stand-by)	≈ 12 mA
Sound pressure level ring tone via loudspeaker at a distance of 0.5 m	78 dB(A)
Call volume (hands-free)	max. 65 dB(A)
TFT display size	3.5"
Resolution of graphical display	320 x 240 px
Degree of protection	IP 30
Operating temperature	5 °C ... 50 °C
Connecting terminal for conductor cross-section	max. 0.75 mm ²
Dimensions including design frame (W x H x D)	93 x 163.5 x 16 mm

Standards

Ring tone volume (signal) according to EN 50486

Warranty

We reserve the right to realise technical and formal changes to the product in the interest of technical progress.

Our products are under guarantee within the scope of the statutory provisions.

In case of service issues, please contact your systems' engineer.