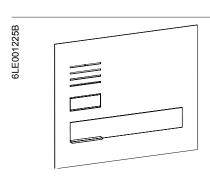
ELCOM.



REL1..Y Audio letter box front 2-wire

Operating and assembly instructions

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

Design and layout of the device

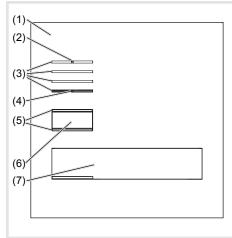


Figure 1: Front

- (1) Front plate stainless steel
- (2) Microphone
- (3) Speaker
- (4) twilight sensor for call button
- (5) Cover strip for dismantling protection (6) Button panel with call push-buttons
- (7) Mail slot flap

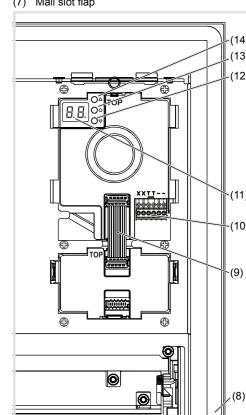


Figure 2: Back

- (8) Peripheral wall sealing
 - (9) Connecting cable module 10) Connection terminal block
 - (11) 7-seament display

 - (12) Adjustment button downwards▼
 - (13) Selection button O
 - (14) Adjustment button Upwards A

The audio letter box works in the 2-wire bus system and enables communication via sound.

- For assembly in pass-through letter boxes Not compatible with intercom systems and pass-
- through letter boxes of other manufacturers
- suitable for use exterior applications

Product characteristics

- completely pre-assembled
- protected against vandalism
- with brushed 2 mm stainless steel front plate Letter box according to DIN EN 13724
- Name plate can be changed from the front without any special tools
- One-man commissioning
- Call push-button with acknowledge tone (can be switched off) and tactile feedback Call button, light release or door release can be
- adjusted even without any function Durable, homogeneous, white LED call
- push-button backlighting Twilight controlled call push-button backlighting
- with adjustable switch-on brightness level Opening of letter box front only with enclosed opening tool
- break-proof flush-mounted call buttons
- Loudspeaker and microphone protected against sabotage
- Volume and microphone sensitivity settable Door release contact on 1 ... 10 s adjustable
- Door release without previous call adjustable in single door systems
- Safety rope as installation aid

Operation

Establish call (ringing)

Press the call push-button assigned to the desired subscriber

If configured, the call push-button activation is confirmed by an acknowledge tone. Addressed indoor stations are called.

Switch-on lights

A call push-button is configured and labelled for lighting control (light insert supplied).

Press the call push-button for lighting.

If configured, the call push-button activation is confirmed by an acknowledge tone. The light contact of a line power supply is closed for the

Labelling the call push-button / name plate

■ Keep call push-button / name plate pressed on one side. On the opposite side, the lever opening (15) is

- accessible for a screwdriver Position the screwdriver in the lever opening
- (15) and release the interlock (Figure 3). Remove cover with name plate insert.

When installing door communication systems, comply with the general safety regulations for telecommunications systems according to VDE 0800: Separate routing of power and door communi-

Figure 3: Removing name plate cover

Insert name plate insert, prepared foil or pre-

i Do not use any paper for the name plate insert,

since moisture and UV light will damage the

i UV-resistant foil with laser printing is suitable

Commercially available products for stainless

steel and car paintwork care containing a wax

i Do not use wire wool, wire brushes or any

Information for electricians

DANGER!

component for conservation are recommended for

similar products for cleaning. This will prevent

damage to the surface and accumulation of

Installation and electrical connection

An electric shock can be lethal!

disconnect all associated circuit

Touching live parts in the installation

environment can result in an electric

Before working on the device or load,

breakers. Cover all live parts in the

for labelling as well as labelling devices for

pared labelling strip into the cover and press on

Label name plate insert if required.

(15) Lever opening

paper and labelling.

Cleaning and care

- small buttons - 12 mm

- medium buttons - 30 mm

labelling strip.

cleaning and care.

flash rust.

- cation cables with a minimum spacing of 10 cm Partitions between power and door communication cables in shared cable ducts
- Use of standard telecommunications' cables. e. g. J-Y (St) Y with 0.8 mm diameter

Bus cables

- J-Y(ST)Y or A-2Y(L)2Y Use wrapped wire pair. Recommendation: white/vellow
- Use wrapped wire pair Recommendation: orange/white

Avoid interference!

- The 13-MHz video carrier frequency used for two-wire video door communication systems can cause reciprocal interference with other devices, such as radios, routers and WLAN
- Only use shielded cables corresponding to the qualities recommended in this manual.
- It is essential to comply with the applicable regulations during planning and installation.
- Route cables, wire the devices, and in particular implement shielding and earthing measures as described below.

Assembling the letter box front

The pass-through letter box is assembled (see assembly instructions of pass-through letter box). The connection cables and indoor stations are connected to the line power supply while taking the maximum cable lengths and attenuations into account (see operating instructions of the line power

- Assemble the fastening elements (17) supplied with the pass-through letter box. To do this, loosen the nuts on the threaded bolts, slide the 4 elements onto the bolts over the 2 nuts and then tighten.
- i Use the socket wrench supplied (16). Tighten the bolts underneath through the openings at the edge of the letter box.

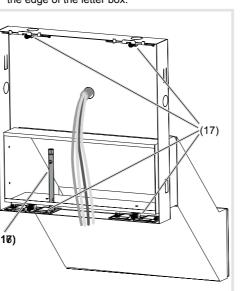
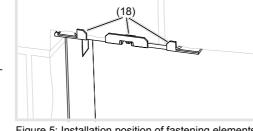


Figure 4: Assembly of the fastening elements

(16) 5.5 mm socket wrench (17) Fastening elements

(Figure 5).

i The support bracket (18) of the fastening elements must be located on the wall surface



(18) Support bracket of the fastening elements

Figure 5: Installation position of fastening elements

power supply (Figure 10).

■ Insert both opening tools (19) into the mounting device of the lower fastening elements (20) on

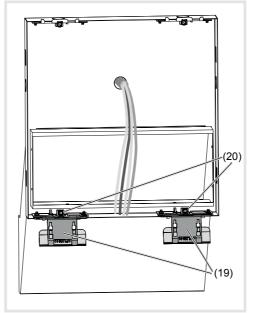


Figure 6: Inserted opening tools

(19) Opening tools (20) Lower fastening elements

the housing (Figure 6).

■ Attach the loops of the safety rope (21) between the centre upper suspension of the letter box front and right upper fastening element (22) in the housing. Position the audio letter box front

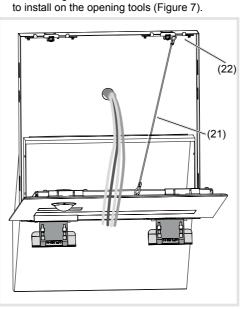


Figure 7: Installation position of audio letter box

(21) Safety rope (22) Upper fastening element

Connecting the letter box front

- Shorten connection cable of the letter box front as required and strip the required wires.
- Pull off connection terminal block (10) from the audio insert.
- Connect the 2-wire bus cable to the terminals XX of the connection terminal block (Figure 8).
- Connect door release to the terminals **TT** of the connection terminal block (figure 8 and 9) if required.

For manipulation-protected installation, connect the door release to the contact \square of the line

- i The door release lead must not be inserted through the letter box door station in order to protect against manipulation
- For call push-button backlighting and camera heating connect 12 V~ lead from the power transformer to the terminals ~~ of the connection terminal block (Figure 8).

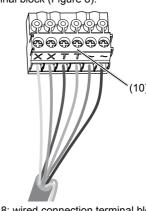


Figure 8: wired connection terminal block

■ Attach connection terminal block to audio insert.

Circuit symbols and elements of the circuit diagrams

Line power supply RMD Power transformer

 ■ Door release Audio letter box front

> Wrapped wire pair for 2D video devices (recommendation: white/yellow wire pair) Unwrapped wire pair, for e.g. for door release

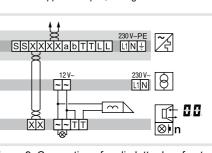


Figure 9: Connection of audio letter box front

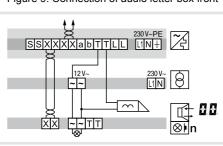


Figure 10: Connection of audio letter box front with manipulation-protected door release

If interference occurs in telecommunications systems, radio services or other systems during the operation of existing video door communication systems, measures for shielding and earthing the cables and for filtering must be implemented.

- For this purpose, connect all of the drain wires of the cables in a star shape using a terminal.
- Connect all drain wires to the PE rail in the distribution box.

Calling up and changing of system settings ■ Select the desired menu entry with ▼ / ▲ On the back of the audio insert, there are 3 operating buttons and a 2-digit 7-segment display (Figure 2, 11 - 14).

Device turns to setting mode. The first menu

The reading directions of the 7-segment display

varies by 180° depending on which button ∇ /

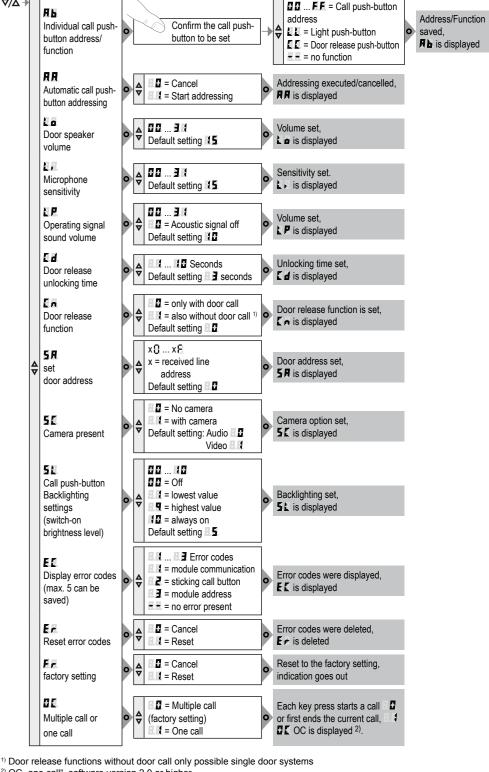
■ Press ▼ / ▲ button.

\(\) you start with.

entry **R** is displayed.

(Figure 11).

- Confirm the selection with O.
- i The 7-segments display goes dark if there is no actuation for 5 seconds. Settings are applied. The device returns to normal operation.



²⁾ OC "one call", software version 2.0 or higher

Figure 11: Overview of system settings

For installations using RTQ52xx, TJA510N, TJA470 or multiple door stations, multiple call ## must be used.

Setting the values

The menu entry to be set is confirmed and flashes alternately with the value to be set.

- Press **▽** / ▲ button.
- Short button-press: change the value by one

Long button-press: run through values. Scrolling stops when the button is released.

- Confirm set value with **O**.
- The device applies the setting and returns to the previous menu entry.

Address call push-button automatically

The call push-button and connector on the back are addressed by the automatic call push-button addressing as follows. The addressing takes place starting from the top downwards (Figure 12).

The menu entry AA is selected. AA flashes alternately with the entry **I** for cancel.

- With **▼** / **△** select the entry **■** for automatic addressing.
- Confirm with O.

During the addressing, the display flickers. Afterwards the display returns to the previous menu entry##.

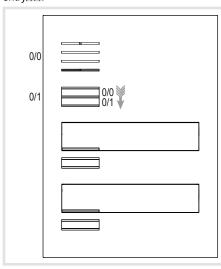


Figure 12: Module address and automatic call push-button addressing

Set individual call push-button address/ function # h

The menu entry **Ab** Set individual call push-button address/function is selected and flashes.

- Confirm the call push-button to be set. The menu entry **Ab** flashes alternately with the current address/function
- With **V** / **△** select the required address **3 ..** FF or function LL for light push-button, LL for door release push-button or ** for no function.
- Confirm set address/function with **O**. The device applies the setting and returns to the previous menu entry. Ab.

Display saved error codes **E**

Audio insert and call push-button module errors that occur during operation are stored in the the error memory of the audio insert for diagnosis.

- Select menu entry 👪 with button 🗸 / 🛕 and confirm with **O**.
- If no error code exists, 📲 is displayed for 2 seconds and afterwards **E**(is displayed again. If error codes are saved **E** I flashes followed by the module address and the error code.
- Press button **∇** / **△**, to call up further error codes if necessary.
- Press button **O** to return to menu entry **E**.

Error code	Error cause	Counter actions
E.E	Communication error between audio insert and call push-button module. Once the error has occurred 3 times, the system is reset automatically and the error code is generated.	If the error persists, the call push-button module must be replaced and addressed.
A2 .	sticking call button	Check call push-button module, and if there is a defect, replace and address.
8.3	Writing of the call push-button address in the call push-button module fails.	If the error persists, the call push-button module must be replaced and

Table 1: Error codes and counter actions

i The memory should only be deleted once 5 error codes have been stored, so that new error codes can be saved.

addressed.

i Identical error codes are only saved once.

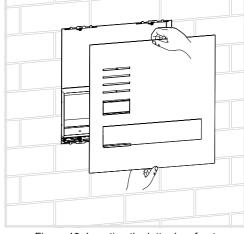
Multiple call/one call

Multiple call, value (factory setting): Each key press on the outdoor station starts a call. These calls can be answered one after the other. One call, value **III**: Pressing a button on the

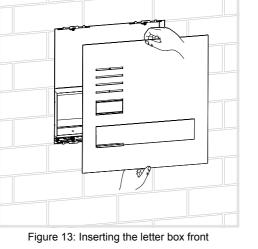
outdoor station starts a call. Each additional key press ends the previous call and connects the new call. Only one call can be present in the system at

Inserting the audio letter box front

- The system settings are complete.
- it clicks audibly into place simultaneously at the top and bottom if possible (Figure 13).

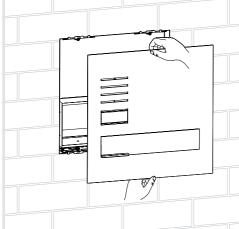


- Remove opening tool from housing.



Replacing the name plate

■ Insert the letter box front and press down until ton module cover can be dismantled from the front.



Dismantling the call push-button module cover During cleaning or replacement, the call push-but-

■ Lever up the interlocking cover strips (5) at the top and bottom using the screwdriver and remove (Figure 14).

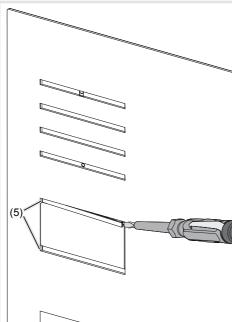


Figure 14: Removal of cover strips

■ Press up the call push-button module cover in the bottom lever opening with the screwdriver and guide it forwards (15).

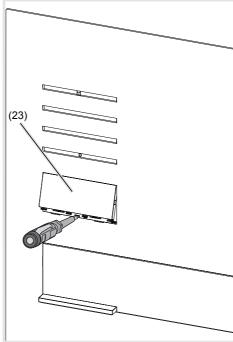


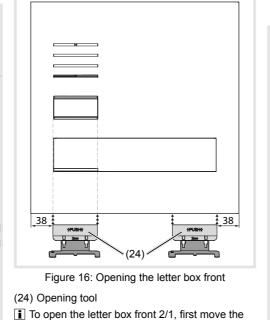
Figure 15: Dismantling the call push-button module

- (23) Call push-button module cover
- i Defective covers can only be replaced by covers with the same number of push-buttons.
- Remove the module to be replaced and install the new module in reverse order.

Opening the letter box front

 Attach opening tools (24) in accordance with Figure 16 with a spacing of 38 mm to the sides and press upwards (Figure 16).

The letter box front will spring out of the bottom interlocking mechanism forwards and can be opened.



opening tool from the upper (25) to the lower position (26) (Figure 17).



Figure 17: Moving the opening tool

(25) Opening tool for letter box front 1/1 (26) Opening tool for letter box front 2/1

Exchanging the module/insert

- Letter box front is disassembled.
- Pull off connection terminal block (10) on the audio insert
- Pull off connector of the connection cable to the module to be exchanged.
- Loosen screws (27) of the module mounting at the back (28) using a screwdriver and remove the module mounting (Figure 18).

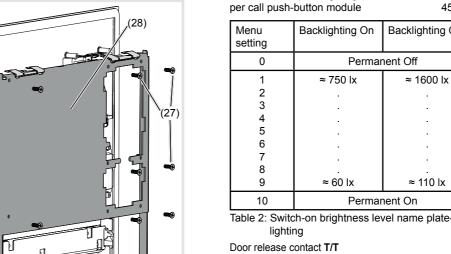


Figure 18: Dismantling module mounting

- (27) Screws
- (28) Module mounting
- To remove the call push-button module, unlatch the side retaining brackets (29) of the module mounting by carefully lifting up with a screwdriver (Figure 19).

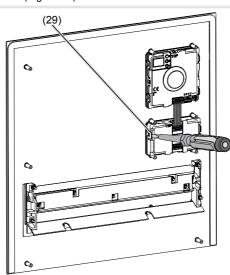


Figure 19: Unlatching the call push-button module

- (29) Retaining brackets module mounting
- After unlatching the module detaches itself from the anchoring.
- Remove the module to be replaced and install the new module in reverse order.
- i Automatic or manual addressing of the module is required to operate the door station.

Technical data

Appendix

Operating voltage

- Current consumption audio insert
- Stand-by
- Current consumption audio insert Operation
- Current name plate lighting 45 mA

Menu setting	Backlighting On	Backlighting Off		
0	Permanent Off			
1	≈ 750 lx	≈ 1600 lx		
2				
3				
4				
5				
6				
7				
8				
9	≈ 60 lx	≈ 110 lx		
10	Permanent On			
Table 2: Switch-on brightness level name plate-				

3 3	
Door release contact T/T	
potential-free	max. 24 V/1 A
Door release unlocking time	1 10 s
Degree of protection	IP 44
Degree of protection	
(degree of impact resistance)	IK07

(degree of impact resistance) Relative humidity 0 ... 65 % (no condensation) Operating temperature -20 °C ... +55 °C Storage/transport temperature -30 °C ... +80 °C Connecting terminals

0.5 ... 0.8 mm for conductor diameter Dimensions: Call push-button button small 75.8 x 14.5 mm

Name plate small 72.1 x 12 mm Call push-button button 75.8 x 32.6 mm medium-seize

Name plate medium-sized 72.1 x 30.1 mm Width of name plate insert max. 0.5 mm Surface compensation max. 17 mm

Dimensions of audio letter box front (W x H x D): 1/1 135 x 242 x 2 mm 2/1 135 x 295.8 x 2 mm

We reserve the right to realise technical and formal changes to the product in the interest of technical 22 ... 24 V= progress.

Warranty

Our products are under guarantee within the scope 5 mA of the statutory provisions.

In case of service issues, please contact your sys-110 mA tems' engineer.

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