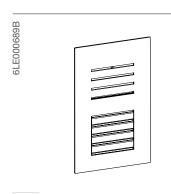
ELCOM.



REQ0..Y, REQ1..Y, REV11...Y, REQ2..A Audio door station 2-wire

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

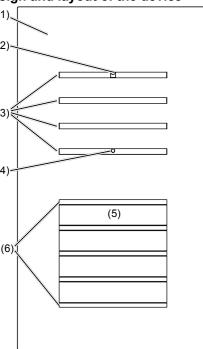


Figure 1: Design and layout of the device front

- (1) Front plate stainless steel
- (2) Microphone
- (3) Door loudspeaker
- (4) Twilight sensor for call button
- (5) Button panel with call push-buttons
- (6) Cover strip for dismantling protection

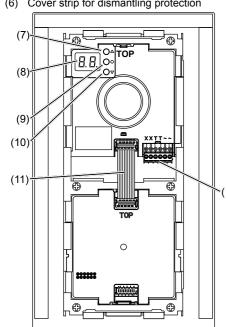


Figure 2: Design and layout of the device back

- (7) Adjustment button Upwards **A**

 - (8) 7-segment display Selection button O
 - (10) Adjustment button downwards ∇
 - (11) Module bus connector
 - (12) Connection terminal block

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

- for surface- or flush-mounted installation
- not compatible with intercom systems of other manufacturers
- suitable for use exterior applications

Product characteristics

- completely pre-assembled
- protected against vandalism with brushed 2 mm stainless steel front plate
- Name plate can be changed from the front wit-
- hout any special tools
- One-man commissioning
- call 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 pushbutton backlighting
- Twilight controlled call push-button backlighting with adjustable switch-on brightness level
- opening of door station only with enclosed openina 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

Label call push-button

- Keep call push-button pressed on one side. On the opposite side, the lever opening (14) is accessible for a screwdriver
- Position the screwdriver in the lever opening (13) and release the interlock (Figure 3).
- Remove cover with name plate insert.

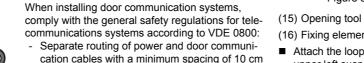
Information for electricians Installation and electrical connection DANGERI



Touching live parts in the installation environment can result in an electric shock!

An electric shock can be lethal!

Before working on the device or load, disconnect all associated circuit breakers. Cover all live parts in the area!



tion cables in shared cable ducts - Use of standard telecommunications' cables, e. g. J-Y (St) Y with 0.8 mm diameter

Partitions between power and door communica-

Bus cables

Figure 3: name plate change

■ Insert name plate insert, prepared foil or prepa-

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

for labelling as well as labelling devices for

A subscriber is After 90 s without call

goes out.

acceptance or an operati

on on the door station, Q

☐ goes out,
☐ lights up
☐

as long as the intercom

connection is pressed

C lights up for the unlok-

king time set on the door

station.
Call accepted:

In addition to the <, the

C lights up for the un-

locking time set on the

door station. Sigoes out

symbol.

Table 1: Status indications of door station

Commercially available products for stainless

steel and car paintwork care containing a wax

i Do not use wire wool, wire brushes or any

component for conservation are recommended for

similar products for cleaning. This will prevent damage to the surface and accumulation of

down, max, 3 min.

Call not accepted:

red labelling strip into the cover and press on

■ Label name plate insert if required.

(13) Lever opening

paper and labelling.

- small buttons - 12 mm

A subscriber

accepts the

door call.

The door is

Cleaning and care

cleaning and care.

flash rust.

- medium buttons - 30 mm

Door stations with status indication

labelling strip:

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

Mounting door station

Surface-mounted or flush-mounted housing is installed (see Assembly instruction housing). 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

■ The fastening elements supplied with the flushmounted housing must be assembled with the nuts on the top and bottom on the threaded bolts. The support bracket (14) of the fastening elements must be located on the wall surface.

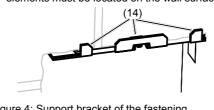


Figure 4: Support bracket of the fastening approx. 5 sec after the C=

(14) Support bracket of the fastening elements

■ Insert opening tool (15) into the mounting device of the lower fastening element (16) on the housing (Figure 5).

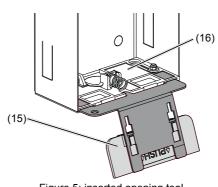


Figure 5: inserted opening tool

(16) Fixing element

■ Attach the loops of the safety rope (17) to the upper left suspension of the door station and to the upper fastening element (18) in the housing. Place the door station for installation onto the opening tool (Figure 5).

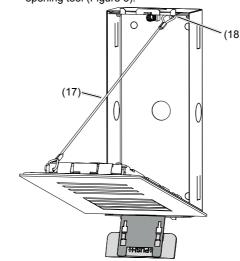


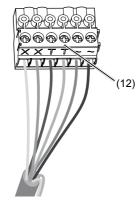
Figure 6: Installation position of door station

(17) Safety rope

(18) Upper fixing element

Connect door station

- Shorten connection cable of the door station as required and strip the required wires. ■ Pull off connection terminal block (12) from the
- 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 7 and 8) if
- For manipulation-protected installation, connect the door release to the contact \(\subseteq \) of the line power supply (Figure 9).
- i The door release lead must not be inserted through the door station in order to protect against manipulation.
- For call push-button backlighting connect 12 V~ lead from the power transformer to the terminals ~~ of the connection terminal block (Figure 7 - 9).



 $\nabla \Delta$

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AA

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5A

55

51

E E

saved)

Er

Fr

88

one call

Camera present

Call push-button

brightness level)

Display error codes

Reset error codes

factory setting

Multiple call or

(max. 5 can be

Backlighting

settings

(switch-on

Figure 7: wired connection terminal block

- i Information on the connection as a floor door station can be found in the operating instructions of the line power supply.
- Attach connection terminal block to audio insert.

Circuit symbols and elements of the circuit diagrams



mendation: white/yellow wire pair) Unwrapped wire pair, for e.g. for door release

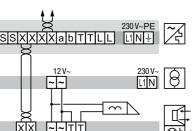


Figure 8: Door release connection on the door

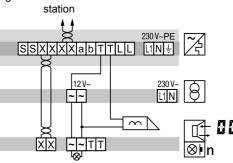


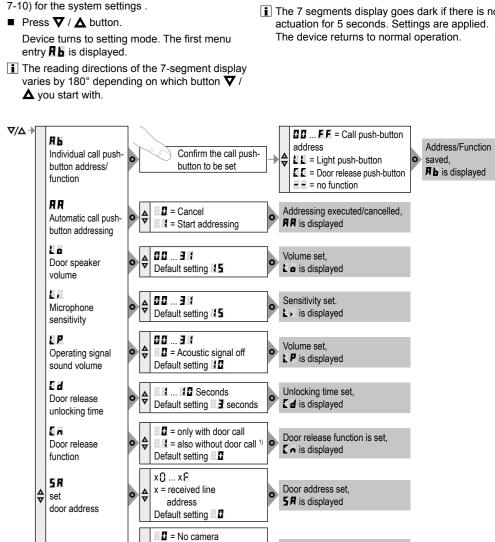
Figure 9: Connection of door station with manipulation-protected door release

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 navigating system settings ■ Select the desired menu entry with **▽** / **△** (figure 10). On the back of the audio module, there are 3 buttons and a 2-digit 7-segment display (Figure 2,

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



Camera option set

5 is displayed

Backlighting set

E is displayed

Er is deleted

indication goes out

Error codes were displayed,

Error codes were deleted,

Reset to the factory setting,

Each key press starts a call

or first ends the current call,

OC is displayed 2).

51 is displayed

Door release functions without door call only possible single door systems 2) OC "one call", software version 2.0 or higher

■ = Multiple call

(factory setting)

III = One call

= with camera

= lowest value

■ = always on

Default setting 15

Ell ... Ell Error codes

■ = sticking call button

3 = module address

= = no error present

▲ H # = Cancel

▼ 🔣 🖁 = Reset

= module communication

🛚 🖣 = highest value

88...KB

Default setting: Audio

Video 🔣

Figure 10: Overview of system settings

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

Setting the values

Automatic call push-button addressing

at the factory. The menu entry AR is confirmed. AR flashes alter-

nately 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

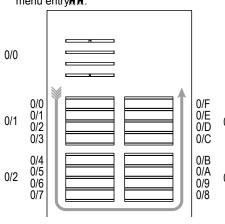


Figure 11: Module address and automatic call push-button addressing

Set individual call push-button address/function

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

- Confirm the call push-button to be set. The menu entry **A** flashes alternately with the current address/function.
- With ▼ / ▲ select the required address ... or function [1] for light push-button, [1] 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 **E** ¶ with button **∇** / **△** and confirm with O

If no error code exists - is displayed for 2 seconds and afterwards E.I.

If error codes are saved **£ 1** 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 **EI**.

The menu entry to be set is confirmed and flashes alternately with the value to be set.	Error code	Error cause	Counter actions
 ■ Press ▼ / ▲ button. Short button-press: change the value by one step. Long button-press: run through values. Scrolling stops when the button is released. ■ Confirm set value with ○ The device applies the setting and returns to the previous menu entry. 	HA	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.
Automatic call push-button addressing RR The call push-button and connector on the back are addressed by the automatic call push-button addressing as follows. The addressing takes place	12	sticking call button	Check call push- button module, and if there is a defect, replace and address.
starting from the top downwards, and with a two- rowed door station, counterclockwise automatically upwards to the right (figure 11). i Door stations are automatically pre-configured at the factory.	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 addressed.

Table 2: 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
- 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 door station

The system settings are complete.

- Remove opening tool from housing.
- Insert door station and press down until it clicks audibly into place simultaneously at the top and bottom if possible (Figure 12).

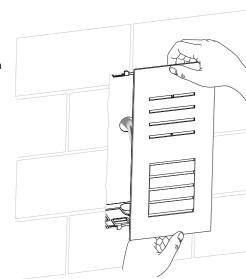


Figure 12: Insert door station

Dismantle call push-button module cover During cleaning or replacement, the call push-button module cover can be dismantled from the front.

■ Lever up the interlocking cover strips (6) at the top and bottom using the screwdriver and remove (Figure 13).

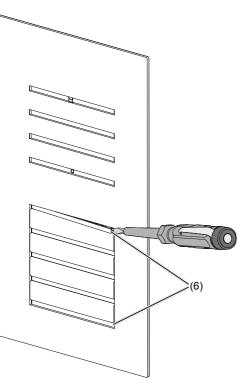


Figure 13: Removing the cover strips

Press up the call push-button module upper part in the bottom lever opening with the screwdriver and guide it forwards (14).

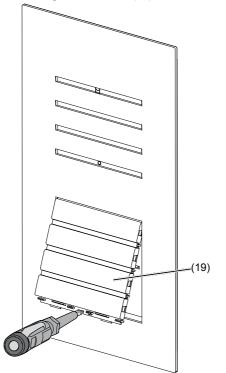


Figure 14: Dismantling the call push-button module

(19) 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.

Open door station

- Position the opening tool (15) at the bottom in the middle and press up (Figure 15).
- i With two-series door stations, use the opening tool in the middle under each series of call push-buttons.

The door station will spring out of the bottom interlocking mechanism forwards and can be opened.

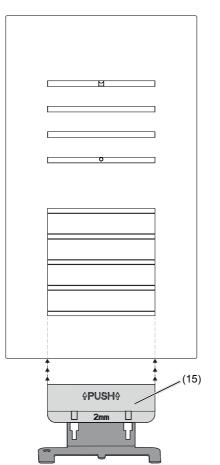


Figure 15: Disassembling the door station

Exchange module/insert Door station is dismantled

 Pull off connection terminal block (12) on the audio insert.

- Remove the connection cables' connectors of the module to be exchanged.
- Loosen screws (20) of the module mounting at the back (21) using a screwdriver and remove the module mounting (Figure 16).

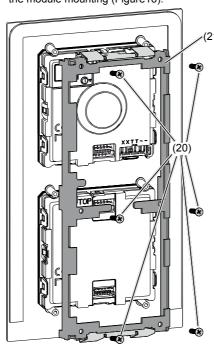


Figure 16: Dismantling module mounting (20) Screws

(21) Module mounting

■ Unlatch retaining brackets (22) of each module Appendix by carefully lifting up with a screwdriver (Figure

■ To remove the call push-button module, unlatch

the side retaining brackets (22) of the module

mounting by carefully lifting up with a screwdri-

Figure 17: Unlatching module

After unlatching the module detaches itself from

Remove the module to be replaced and install

Automatic or manual addressing of the module

is required to operate the door station.

(22) Retaining brackets module mounting

the new module in reverse order.

the anchoring (22).

ver (Figure 17).

Technical data

Operating voltage	22 24 V=
Current consumption audio insert Stand-by	5 mA
Current consumption audio insert Operation	110 mA
Current name plate lighting per call push-button module	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 3: Switch-on brightness level name plate-

lighting	
Door release contact T/T potential-fr	ree max. 24 V/1 A
Door release unlocking time	1 10 s
Degree of protection	IP 44
Degree of protection	IK07
Relative humidity 0 65%	(no condensation)
Operating temperature	-20°C +55°C
Storage/transport temperature	-30°C +80°C
Connecting terminals for conductor diameter	0.5 0.8 mm
Dimensions:	
Call push-button button small Name plate small	75.8 x 14.5 mm 72.1 x 12 mm
Call push-button button medium	75.8 x 32.6 mm

75.8 x 75.8 mm Call push-button button large Name plate large 72.1 x 66.3 mm Width of name plate insert max. 0.5 mm Surface compensation with flush-mounted 17 mm installation Dimensions door station front (W x H x D):

72.1 x 30.1 mm

225.5 x 422 x 2 mm

Name plate medium

with 2 x 3 modules

with 0.5 or 1 module 133.5 x 242 x 2 mm with 0.5 and 1 module 133.5 x 295.8 x 2 mm with 2 modules 135 x 332 x 2 mm 133.5 x 385.8 x 2 mm with 0.5 and 2 modules 133.5 x 422 x 2 mm with 3 modules with 2 x 2 modules 225.5 x 332 x 2 mm with 3 and 2 modules or

Accessories (extract)

Flush-mounted housing for door station:

with 0.5 or 1 module	REW111Y
with 0.5 and 1 module	REW112Y
with 2 modules	REW113Y
with 0.5 and 2 modules	REW114Y
with 3 modules	REW115Y
with 2 x 2 modules	REW126Y
with 3 and 2 modules or	REW127Y
with 2 x 3 modules	

Surface-mounted housing for door station:

ourlace-mounted mousing for door st	ation.
with 0.5 module or 1 module	REW211Y
with 0.5 module and 1 module	REW212Y
with 2 modules	REW213Y
with 0.5 and 2 modules	REW214Y
with 3 modules	REW215Y
with 2 x 2 modules	REW226Y
with 3 and 2 modules or	REW227Y
with 2 x 3 modules	

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.

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