

REQ5..X, REQ6..X, REV51.X Door station VIDEO 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

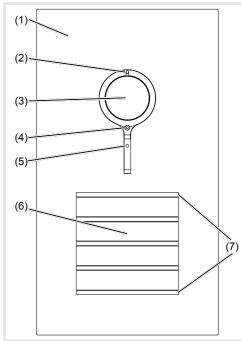


Figure 1: Front

- (1) Front plate stainless steel
- (2) Microphone
- (3) Camera
- (4) Locating screw for camera (Allen key supplied)
- (5) Twilight sensor for call button/loudspeaker
- (6) Button panel with call push-buttons

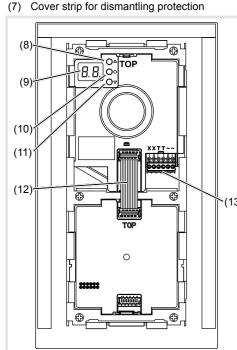


Figure 2: Back

(8) Adjustment button Upwards A (9) 7-segment display

- (10) Selection button

 O
- (11) Adjustment button downwards
- (12) Module connecting cable
- (13) Connection terminal block

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

Correct use

- for surface- or flush-mounted installation in special housings (see Accessories) 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 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 pushbutton backlighting
- Twilight controlled call push-button backlighting with adjustable switch-on brightness level
- Opening of door station only with enclosed opening tool
- break-proof flush-mounted call buttons
- Colour camera
- invisible, glare-free IR LED night lighting temperature controlled camera heating for clear
- scratch-proof camera cover
- 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 (14) 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 brea-

kers. Cover all live parts in the area!

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-

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

Bus cables

Figure 3: Removing name plate cover

• Insert name plate insert, prepared foil or prepa-

red labelling strip into the cover and press on

Do not use any paper for the name plate insert,

since moisture and UV light will damage the

UV-resistant foil with laser printing is suitable

A subscriber is After 90 s without call

goes out.

acceptance or an operati

on on the door station, \triangle

as long as the intercom

connection is pressed

☐ Symbol goes out and
☐ Output
☐ Symbol goes out and
☐ Output
☐ Description
☐ Symbol goes out and
☐ Output
☐ Description
☐ Output
☐

Ights up for the unlok

king time set on the door

station. ____ Call accepted:

In addition to the \triangleleft , the

C lights up for the un-

door station. \(\square\) goes out

approx. 5 sec after the C=

locking time set on the

Table 1: Status indications of door station

Commercially available products for stainless

steel and car paintwork care containing a wax

Do not use wire wool, wire brushes or any

similar products for cleaning. This will prevent

damage to the surface and accumulation of

lown, max. 3 min.

Call not accepted:

for labelling as well as labelling devices for

Label name plate insert if required.

(14) Lever opening

paper and labelling.

- small buttons - 12 mm

- medium buttons - 30 mm

Door stations with status indication

labelling strip:

called

A subscriber

accepts the

door call.

Cleaning and care

cleaning and care.

flash rust.

- J-Y(ST)Y or A-2Y(L)2Y Use wrapped wire pair. Recommendation white/yellow
- 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 (vlagus

- The fastening elements supplied with the flushmounted housing must be assembled. To do this, loosen the nuts on the threaded bolts, slide the elements onto the bolts over the 2 nuts and then tighten.
- The support bracket (15) of the fastening elements must be located on the wall surface (Figure 4).

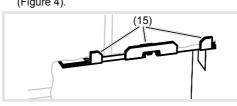


Figure 4: Installation position of fastening elements (15) Support bracket of the fastening elements

 Insert opening tool (16) into the mounting device of the lower fastening element (17) on the housing (Figure 5). component for conservation are recommended for

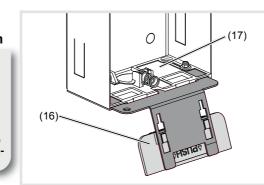


Figure 5: Inserted opening tool

(16) Opening tool

(17) 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 (16) in the housing. Place the door station for installation onto the opening tool (Figure 5).

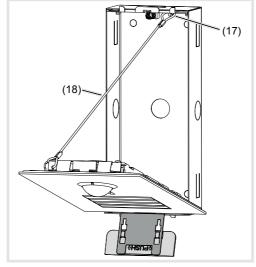


Figure 6: installation position of door station (18) Safety rope

Connect door station

- Shorten connection cable of the door station and strip the required wires.
- Pull off connection terminal block (13) from the video insert Connect the wire pair of the 2-wire bus cable to the terminals XX of the connection terminal
- block (Figure 7). Connect door release to the terminals TT of the connection terminal block (figure 7 and 8) if required.
- For manipulation-protected installation, connect the door release to the contact **n** of the line power supply (Figure 9). The door release lead must not be inserted
- through the 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 7).

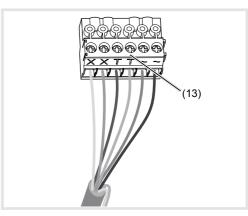
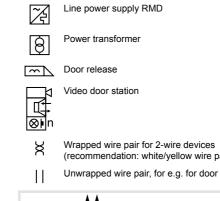


Figure 7: Wired connection terminal block Information on the connection as a floor door station can be found in the operating instruc-

Attach connection terminal block to video insert.

Circuit symbols and elements of the circuit diagrams

tions of the line power supply.



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

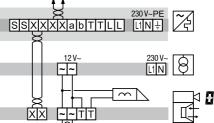


Figure 8: Door release connection on the door station

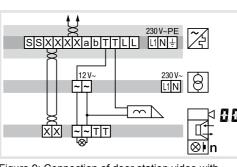


Figure 9: Connection of door station video with manipulation-protected door release If interference occurs in telecommunications

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 On the back of the video insert, there are 3 operating buttons and a 2-digit 7-segment display (Figure 2, 8 - 11).

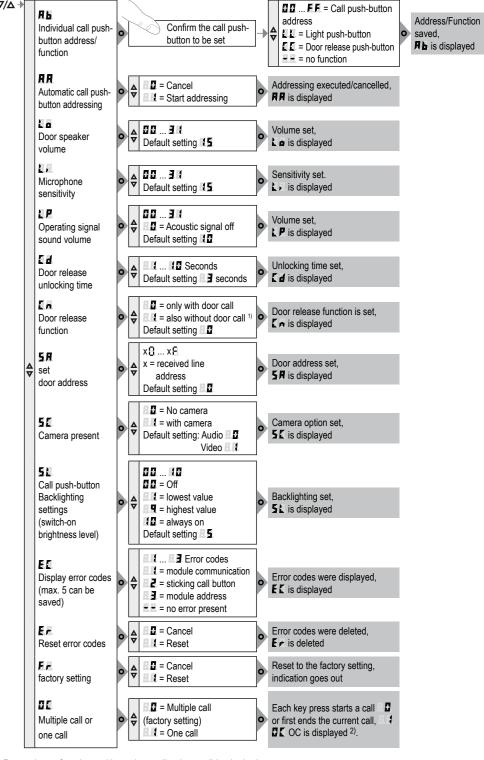
 Press ▼ / ▲ button. Device turns to setting mode. The first menu entry **R** is displayed.

The reading directions of the 7-segment display varies by 180° depending on which button abla / A you start with.

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

• Select the desired menu entry with ∇ / Δ

(figure 10).



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

Figure 10: 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.

Error cause

ICommunication error

insert and call push-

3 times, the system

is reset automatically

and the error code is

generated.

sticking call button

Writing of the call

module fails.

codes can be saved.

Multiple call/one call

any time.

oush-button address

In the call push-button loush-button

Table 2: Error codes and counter actions

The memory should only be deleted once 5

Identical error codes are only saved once.

calls can be answered one after the other.

One call, value !!! : 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

Ibutton module. Once I module must be

the error has occurred replaced.

between camera

- 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, and with a tworowed door station, counterclockwise automatically upwards to the right (figure 11).

Door stations are automatically pre-configured

at the factory. The menu entry AA is selected. AA 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

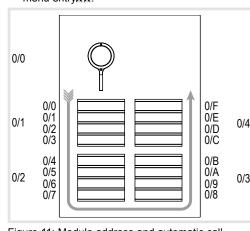


Figure 11: Module address and automatic call push-button addressing

Set individual call push-button address/function Ab

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

Video insert and call-button module errors that occur during operation are stored in the the error memory of the video 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.L.

If error codes are saved **£** ¶ 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 £1.

Inserting door station

If the error per-

sists, the call

Check call push-

button module and if there is a

defect, replace

and address.

If the error per-

ists, the call

replaced and

addressed.

nodule must be

push-button

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).

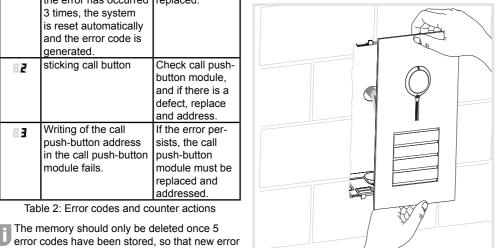


Figure 12: Insert door station

The camera can be aligned in order to adapt the camera picture to the local circumstances (Figure Multiple call, value ■ (factory setting): Each key press on the outdoor station starts a call. These

The door station is installed.

- Loosen the locating screw for the camera 1.5 with the Allen key supplied (Figure 13).
- Call an indoor station video from the door station by call push-button.

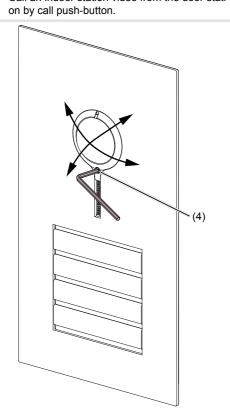
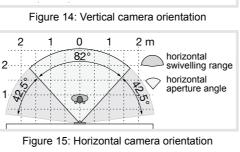


Figure 13: Alignment of the camera

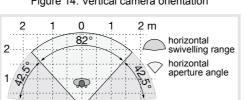
- Align camera (figure 14/15). The entrance area is clearly visible on the display of the indoor station.
- Fix camera again with screw (4).

Dismantle call push-button module cover

....2 m vertical swivelling range



vertical aperture angle



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

• Lever up the interlocking cover strips (7) at the top and bottom using the screwdriver and remove (Figure 16).

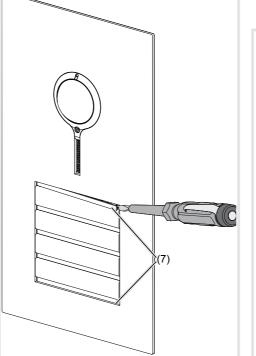


Figure 16: Removal of cover strips

 Press up the call push-button module cover in the bottom lever opening with the screwdriver and guide it forwards (17).

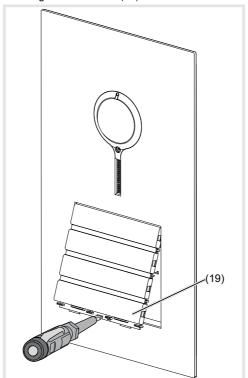


Figure 17: Dismantling the call push-button module

(19) Call push-button module cover

- 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

- Position the opening tool (16) at the bottom in the middle and press up (Figure 18).
- 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

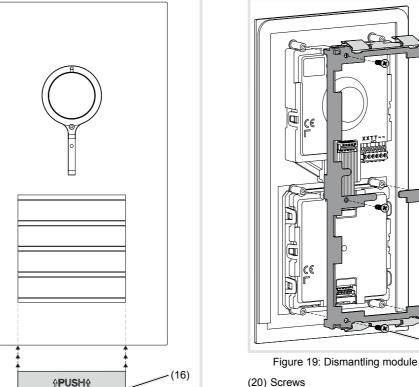


Figure 18: Opening of the door station

Exchange module/insert

Door station is dismantled

- Pull off connection terminal block (13) on the video 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 19).

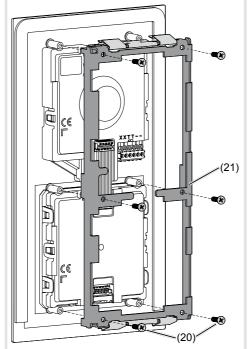


Figure 19: Dismantling module mounting

(21) Module mounting

The video insert can now be removed.

• To remove the call push-button module, unlatch the side retaining brackets (22) of the module mounting by carefully lifting up with a screwdri-

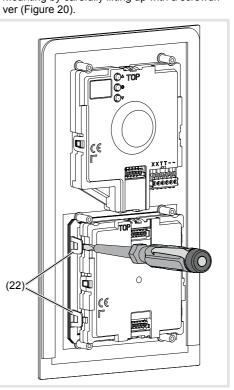


Figure 20: Unlatching module

(22) Retaining brackets module mounting

After unlatching the two overlapping module Accessories (extract) retaining brackets, the module detaches itself

≈ 1600 lx

≈ 110 lx

max. 24 V/1 A

500 x 582 px

M2 x 10 mm

-20°C ... +55°C

0.5 ... 0.8 mm

75.8 x 14.5 mm

72.1 x 12 mm

max. 0.5 mm

max. 17 mm

133.5 x 242 x 2 mm

133.5 x 332 x 2 mm

133.5 x 385.8 x 2 mm

133.5 x 422 x 2 mm

225.5 x 332 x 2 mm

225.5 x 422 x 2 mm

133 5 x 295 8 x 2 mm

0 ... 65% (no condensation)

1 ... 10 s

82°/58°

42.5°

IP 44

Backlighting On Backlighting Off

Permanent On

45 mA

from the anchoring (22).

Appendix

consumption

(operation)

(operation)

setting

10

potential-free

horizontal/vertical

Camera resolution

locating screw

Degree of protection

Degree of protection (degree of impact resistance)

Relative humidity

Connecting terminals

Dimensions

for conductor diameter

Name plate insert small

Width of name plate insert

Surface compensation with

flush-mounted installation

with 0.5 or 1 module

with 2 modules

with 3 modules

with 2 x 2 modules

with 2 x 3 modules

with 0.5 and 1 module

with 0.5 and 2 modules

with 3 und 2 modules or

Call push-button button small

Operating temperature

Hexagon 1.5 mm camera

Door release contact T/T

Door release unlocking time

Aperture angle swivelling range

Technical data

Operating voltage

Camera standby current

Camera current consumption

Current name plate lighting

per call push-button module

Camera heating current consumption

≈ 750 lx

≈ 60 lx

Recommended camera installation height 1.5 m

Switch on temperature camera heating ca. 20°C

Storage/transport temperature -30°C ... +80°C

Call push-button button medium-seize 75.8 x 32.6 mm Name plate insert medium-sized 72.1 x 30.1 mm

Dimensions video door station front (W x H x D):

Table 3: Brightness of LED backlighting

Camera aperture angle horiz./vertical

the new module in reverse order.

I is required to operate the door station.

Remove the module to be replaced and install

Automatic or manual addressing of the module

Flush-mounted housing for door station:

| with 0.5 or 1 module | REW111X |
|-------------------------|---------|
| with 0.5 and 1 module | REW112X |
| with 2 modules | REW113X |
| with 0.5 and 2 modules | REW114X |
| with 3 modules | REW115X |
| with 2 x 2 modules | REW126X |
| with 3 and 2 modules or | REW127X |
| with 2 x 3 modules | |

with 2 x 3 modules

| | 22 24 V= | Surface-mounted housing for door station: | | |
|---|--------------|---|--------|--|
| | | with 0.5 module or 1 module | REW211 | |
| a | approx. 8 mA | with 0.5 module and 1 module | REW212 | |
| | | with 2 modules | REW213 | |
| ı | may 240 mA | with 0.5 and 2 modules | REW214 | |
| | | with 3 modules | REW215 | |
| n | | with 2 x 2 modules | REW226 | |
| | 100 mA | with 3 and 2 modules or | REW227 | |
| | | | | |

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