

The logo consists of the letters 'TCS' in a bold, white, sans-serif font. The 'T' and 'C' are connected at the top, and the 'S' is slightly larger and positioned to the right of the 'C'.

TCS

WE OPEN UP  
NEW WORLDS >

2  
WIRE  
VIDEO

# 2-WIRE VIDEO

DOOR COMMUNICATION  
SYSTEMS

[WWW.TCSAG.DE](http://WWW.TCSAG.DE)



# FOR MODERNISATION AND NEW BUILDINGS

2-wire video is a time-saving technology that enables existing audio door communication systems to be easily upgraded to video. Lots of older electric bell systems can also be easily converted. 2-wire video packs are also available and come as fully assembled, pre-programmed systems for up to three flats. Systems for up to 24 flats can be implemented using a number of single components.

For renovations, retrofits and new systems

Pre-configured set for up to three flats

With components for up to 24 flats

Great flexibility

Quick installation

# 2 WIRE VIDEO

## PACKS AND KITS

### VIDEO:PACKS, PRE-CONFIGURED



FOR 1-3 FLATS  
> page 10/11

### VIDEO:KITS



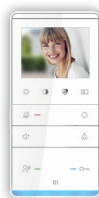
FOR 1-24 FLATS  
> page 12/13

## SINGLE COMPONENTS

For connecting TCS:BUS video front-door stations and cameras with the 2-wire video:-  
BUS front-door station adapter.

### INDOOR STATIONS

#### 2-WIRE VIDEO TASTA VIDEO



IVW5211-0145  
> page 6/7

#### 2-WIRE VIDEO DOOR PHONE



IVH4222-0140  
> page 8/9

### POWER SUPPLY

#### 2-WIRE VIDEO:BUS POWER SUPPLY UNIT



NVV1000-0400  
> page 14

### EXTENDED FUNCTIONS

#### 2-WIRE VIDEO:BUS FRONT-DOOR STATION ADAPTER



FWW3030-0600  
> page 15

#### 2-WIRE VIDEO:BUS TWO-WAY VIDEO DISTRIBUTOR



FVY3200-0600  
> page 16

### FURTHER SYSTEM COMPONENTS

- > 2-wire video:BUS filter board  
FWW3040-0000
- > 2-wire video:BUS matching resistor  
0038794
- > page 15



Benefits:

Great variability in design/infrastructure\*

Protocol compatible with the established TCS:BUS

Use of the free configuration tool configo™

Extensive range of system components

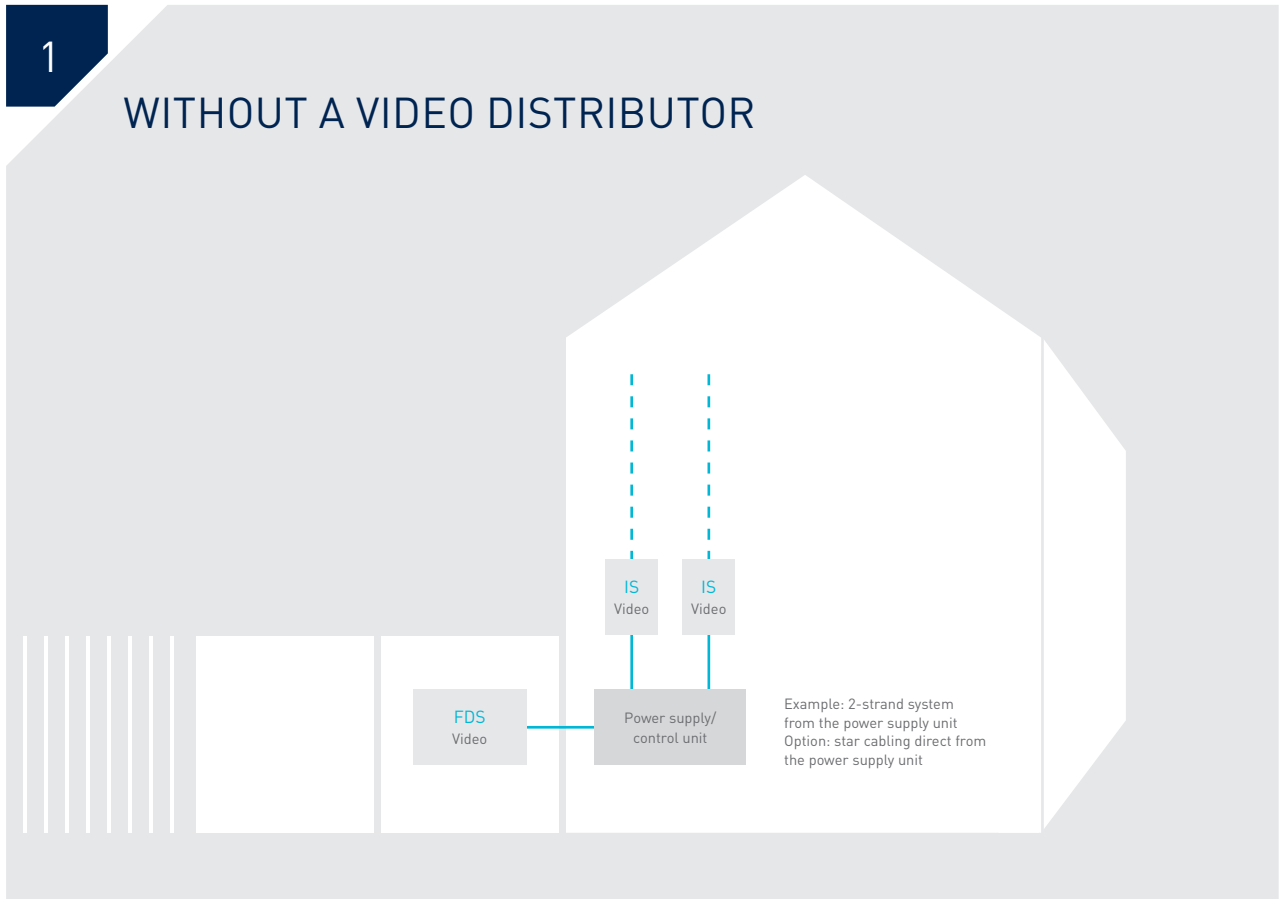
Connection of TCS:BUS video front-door stations and cameras with 2-wire video:BUS adapters

Fast installation (by expert personnel without prior knowledge of communication systems)

\* Strand line (loopthrough), stub line and/or star-shaped cabling.  
In star cabling from the power supply unit without a video distributor.

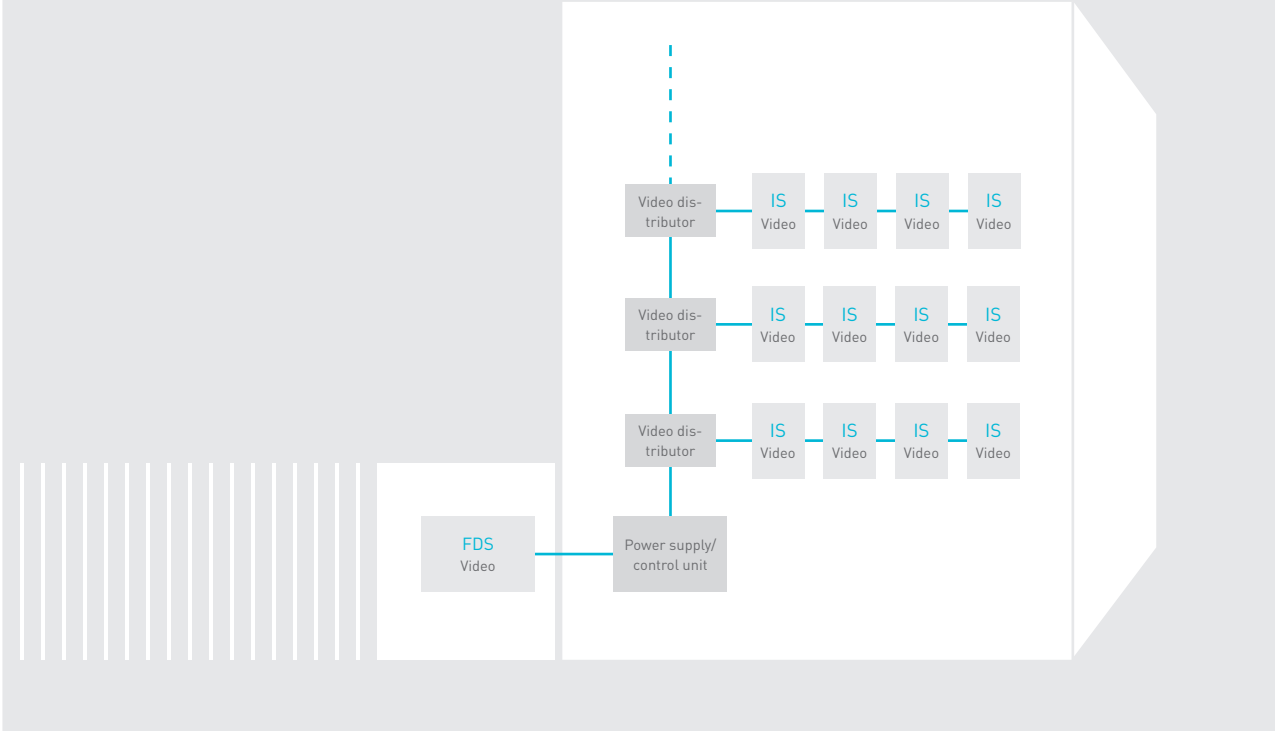
1

## WITHOUT A VIDEO DISTRIBUTOR



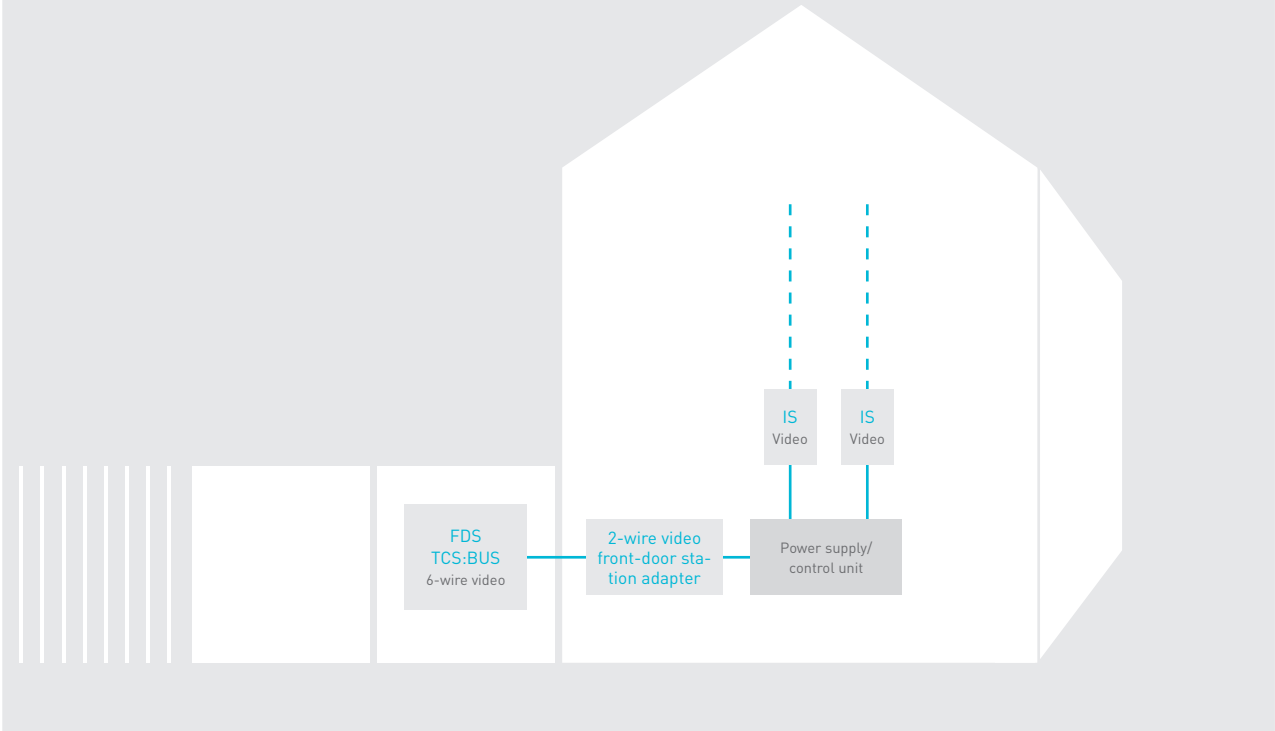
2

### WITH A VIDEO DISTRIBUTOR



3

### WITH A FRONT-DOOR STATION ADAPTER



# 2-WIRE VIDEO TASTA VIDEO

The 2-wire video hands-free communication system supplements the TASTA series of indoor stations. The setup is easy to use, intuitive in its operation and thus suitable for residents of all ages. The integrated ambient lighting simultaneously signals the ring tone.



MOUNTING  
SPACE FOR  
SMARTSLOT

8.9 cm (3.5") display

Video image set using  
sensor keys

With ambient lighting  
and an orientation light

Door calls signalled by the  
ambient lighting

Door calls and ring tone  
cancellation visually displayed  
by LEDs

SmartSlot can be ordered  
separately for additional sig-  
nalling of door calls

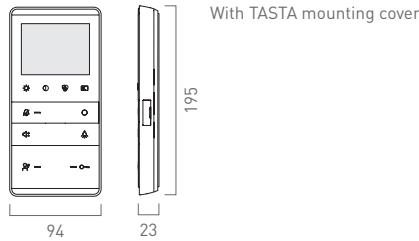


Use the QR code  
to open the  
PDF DATASHEET

COLOURS | MATERIALS



DIMENSIONS (IN MM)



FUNCTIONS AND EXTENDED FUNCTIONS

**SmartSlot**

can be ordered separately for additional signalling of door calls together with the FFL2200-0 radio bell. Removal tool included in the delivery with extended functions.

**Setting the video parameters**

Contrast, brightness and colour saturation can be set to four different levels.

**Call signalling**

The ambient lighting also flashes to signal incoming door calls. This function can be activated and deactivated by the light switch button.

**Adjusting the volume and ring tones**

The speech and ring tone volume can be set to four different respective levels using the volume button. Individual ring tones can be allocated for floor calls, internal calls and calls from the front-door station.

**Comfort functions only configurable with configo or the service device**

Call diversion, automatic door release, floor door release function, internal calls

ACCESSORIES



Desktop accessory for TASTA Audio and Video 3.5\*\*



TASTA mounting cover for wall mounting and flush-mount socket



TASTA wall-mount adapter

2-WIRE VIDEO INDOOR STATION	H x W x D in mm	Price	PK	Article no.
2-wire video TASTA hands-free communication system with mounting cover	195 x 94 x 23	€400.00	2	<a href="#">IW5211-0145</a>

ACCESSORIES	H x W x D in mm	Price	PK	Article no.
Desktop accessory*		€129.00	1	<a href="#">ZIT5000-0030</a>
TASTA 5-pole mounting cover (included in delivery)	189.25 x 88 x 17.2	€10.00	3	<a href="#">ZIA5005-0145</a>
TASTA wall-mount adapter	179.5 x 88 x 15	€29.50	3	<a href="#">ZIA5011-0130</a>

EXTENSIONS TO THE TASTA SERIES WITH SMARTSLOT	Price	PK	Article no.
Radio signal unit for the TASTA series	€160.00	1	<a href="#">FFL2200-0</a>

\* With 2.5-m connecting cable and RJ45 connector plug.

# 2-WIRE VIDEO VIDEO DOOR PHONE

The tried-and-tested video door phone is also available in a 2-wire video version. Its range of basic functions gives residents a new level of security and higher standard of living for an exceptional price.



8.9 cm (3.5 inch) digital display

Simple basic functionality

For discrete duplex communication

Ring tone mute

Intuitive operation

With function key

Desktop accessory available



Use the QR code  
to open the  
PDF DATASHEET

The quality of the video image of the installed devices may differ from the quality of the video image in the illustrations.



## COLOURS | MATERIALS



White

## FUNCTIONS



### Volume control

The ring tone volume can be continuously adjusted using the jog wheel on the side. It can be set at any time. The ring tone can be muted using the call-off button.

### Function key

Settable using configo for individual programming with a switching or control function (light switching, image activation, calls to the control centre).

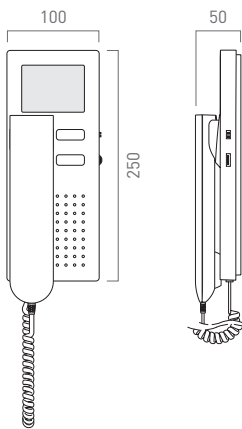
Brightness and contrast can be adjusted by buttons.

## ACCESSORIES



Desktop accessory  
in stainless steel

## DIMENSIONS (IN MM)



### 2-WIRE VIDEO INDOOR STATION

	H x W x D in mm	Price	PK	Article no.
2-wire video door phone	250 x 100 x 50	€300.00	2	<a href="#">IVH4222-0140</a>

### ACCESSORIES

	H x W x D in mm	Price	PK	Article no.
Desktop accessory*	230 x 89 x 132	€130.00	1	<a href="#">ZIT3222-0030</a>

\* With 2.5-m connecting cable and RJ45 connector plug.

# PRE-CONFIGURED VIDEO:PACKS

## 1 FRONT-DOOR STATION



2-wire video front-door station for wall mounting, AVC series

AVC12010-0010  
AVC12020-0010  
AVC12030-0010

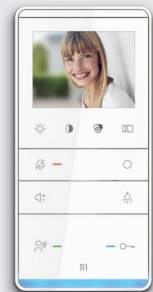
## 1-3 INDOOR STATIONS



2-wire video door phone

IVH4222-0140

OR



2-wire video TASTA Video hands-free communication system

IVW5211-0145

## 1 CONTROL UNIT

2-wire video power supply unit NVV1000

Whether for a single- or multi-family home, video:packs for one to three flats make for quick installation and commissioning. The front-door station, power supply unit and indoor station are therefore carefully coordinated with one another. The devices come fully configured and can be installed straight out of the box. This means that work is completed very quickly. Using the SmartSlot, calls can be easily transferred to a radio signal unit by easywave.



Use the QR code to open the PDF DATASHEET

Pre-configured 2-wire video door communication system

For duplex or hands-free communication

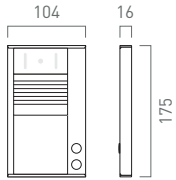
Video indoor stations with a 8.9 cm (3.5") digital display

2-wire video front-door station for wall mounting

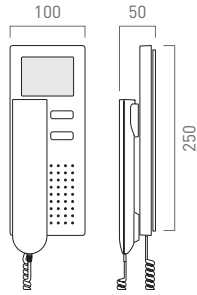
Up to two video distributors can also be supplied

DIMENSIONS (IN MM)

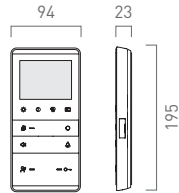
2-wire video front-door station AVC series



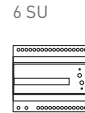
2-wire video indoor station door phone



2-wire video indoor station TASTA hands-free communication system



2-wire video power supply unit NVV1000-0400



NOTES

- > Please plan with a distributor if there are stub lines on the floor.
- > Up to five distributors per speech channel are possible. Please contact the hotline if you have any questions regarding planning.



VIDEO FRONT-DOOR STATION (WALL MOUNT), AVC SERIES

	PK	Price	Article no. with 2-wire video door phone	Price	Article no. with 2-wire video TASTA Video
1 flat	2	€789.00	<a href="#">PVC2410-0010</a>	€889.00	<a href="#">PVC2310-0010</a>
2 flats	2	€1,089.00	<a href="#">PVC2420-0010</a>	€1,289.00	<a href="#">PVC2320-0010</a>
3 flats	2	€1,389.00	<a href="#">PVC2430-0010</a>	€1,689.00	<a href="#">PVC2330-0010</a>



ACCESSORIES

	H x W x D in mm	Price	PK	Article no.
Weather protection roof, naturally anodised	61 x 109 x 50	€58.00	1	<a href="#">PAKDA-EN</a>
Mounting plate, naturally anodised	338 x 170 x 3	€106.00	1	<a href="#">ZAM1103-0010</a>
2-wire video:BUS two-way video distributor (flush mount)	52 x 52 x 23	€99.00	1	<a href="#">FVY3200-0600</a>



EXTENSIONS

	Price	PK	Article no.
Radio signal unit for the TASTA series	€160.00	1	<a href="#">FFL2200-0</a>

# SYSTEM EXTENSION VIDEO:KITS

## 1 BUILT-IN DOOR LOUDSPEAKER



Built-in door loudspeaker with barrier-free symbols  
**NEW**

ASI12000-0000

## 1 CAMERA



OR



OR



Built-in camera for flush mounting behind customer front panel units

FVK2200-0300/0036189

Cylinder camera, mechanically adjustable

FVK3220-0

Dome camera for flush mounting

FVK4224-0

## 1 CONTROL UNIT AND ADAPTER

2-wire video power supply unit NVV1000-0400

AND



2-wire video front-door station adapter FVW3030-0600

With video:kits, video door communication systems can be easily installed behind front panel units, letterboxes or bell button panels. You also have maximum flexibility when planning your system, with video cameras for flush mounting, wall mounting or ceiling mounting available. Up to 24 indoor stations can be added separately to the kit depending on requirements.



Use the QR code to open the PDF DATASHEET

For up to 24 flats

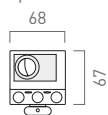
Including a 2-wire video power supply unit and 2-wire video front-door station adapter

Built-in door loudspeaker with three LED displays with pictograms for barrier-free door communication

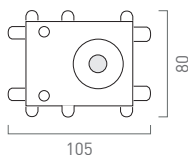
Choice of three cameras for wall mounting, flush mounting or installation behind front panel units

DIMENSIONS (IN MM)

Built-in door loud-speaker

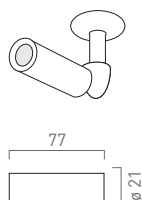


Built-in camera



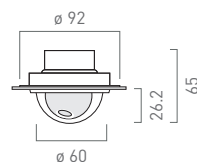
In vertical installation:  
Height = width  
Width = height

Cylinder camera, mechanically adjustable

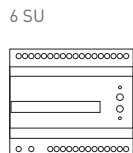


Camera ø 21x77

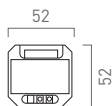
Dome camera for flush mounting



2-wire video power supply unit NVV1000-0400



2-wire video front-door station adapter FVW3030-0600



NOTES

- > Please plan with a distributor if there are stub lines on the floor.
- > Please contact the hotline or consult the planning manual if you have any questions regarding planning.
- > Please use a Kaiser Perilex 1076-04 connector socket.



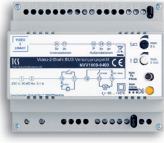
2-WIRE VIDEO  
planning manual

2-WIRE VIDEO VIDEO:KITS

	Price	PK	Article no.
2-wire video video:kit 5 with a built-in camera	€992.00	2	VK05
2-wire video video:kit 6 with a cylinder camera	€1,001.00	2	VK06
2-wire video video:kit 7 with a dome camera	€1,089.00	2	VK07

# SUPPLY

## 2-WIRE VIDEO:BUS POWER SUPPLY UNIT



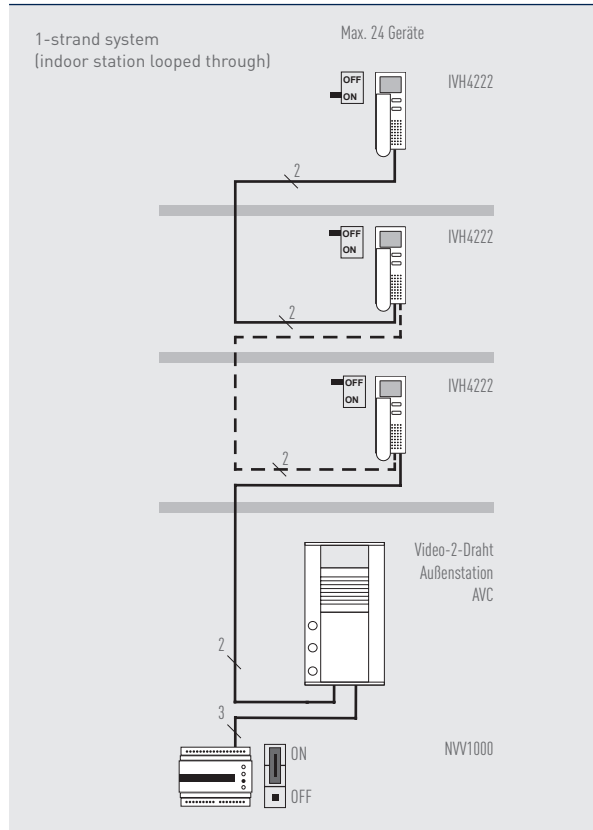
For centralised supply and control of polarity-free 2-wire video systems on the non-twisted strand

- > Integration of up to 24 indoor stations and one front-door station possible
- > One speech channel per system
- > Input voltage: 230V, 50/60Hz
- > Maximum loop resistance: 15 ohms
- > Optional additional supply of the front-door station via  $P_v = 33\text{ V DC}$ , overload and short-circuit protected
- > Light switching output: closing contact, potential free, max. capacity 24 V DC 1A
- > Door release output voltage 12 V AC, max. 1A, 12 V DC, max. 0.5A, common ground potential
- > Tested according to DIN EN 50486

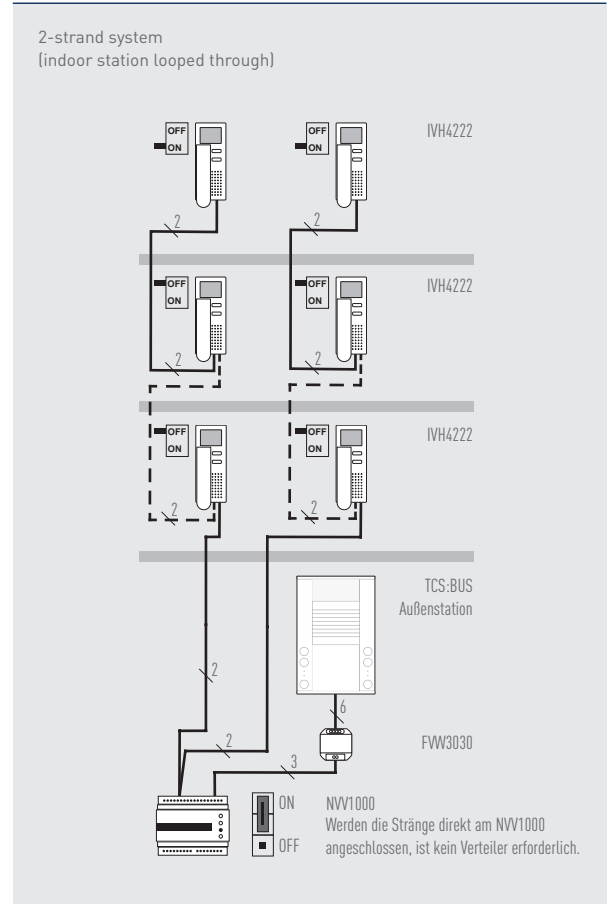
### Indoor stations

IVH4222-0140	Up to 24
IWV5211-0140	Up to 24

### Example application without a video distributor



### Example application without a video distributor and with an adapter for TCS:BUS front-door stations



Please see the product information or 2-wire video planning manual for a full overview of the possible circuit examples.

H x W x D in mm	Price	PK	Article no.
90X105x70 (6 SU)	€360.00	1	NVV1000-0400



Product information  
NVV1000-0400



2-WIRE VIDEO  
planning manual

# EXTENSIONS

## 2-WIRE VIDEO:BUS ADAPTER FOR TCS:BUS FRONT-DOOR STATIONS (FLUSH MOUNT)



For polarity-free coupling of video front-door stations in 6-wire:BUS technology to the 2-wire video:BUS power supply unit NVV1000-0400

- > Frequency modulation of the video signal (camera input V1, V2) on the 2-wire video:BUS
- > Based on the tried-and-tested TCS:BUS
- > Mounted in a flush-mount socket, flush-mount box of a flush-mount front-door station
- > ABS plastic built-in housing, blue
- > Supply voltage: 32 V DC +2 V/-6 V
- > Current consumption: I(av) in standby 2.4 mA, I(Pv) in standby 10.3 mA
- > 6-wire bus output voltage: a: 23.5–27.5 V, P: 27–31 V
- > 6-wire bus output current: I (P out) max. 120 mA
- > Voltage supply for external camera: 12 V DC with current consumption, max. 120 mA
- > Acceptable ambient temperature: -25 to +55°C
- > Degree of protection IP20
- > Tested according to DIN EN 50486

With a video front-door station (incl. FVW3030)

	With AVD/AVE 14xxx-00xx	With AVU 15xxx-00xx (2 slots)
Indoor stations		
IVH4222-0140	Up to 24	Up to 24
IWV5211-0140	Up to 24	Up to 24

With an audio front-door station and separate camera (incl. FVW3030)

	With ASI12000 + FVK4224-0/4225-0	With ASI12000 + FVK220x-0
Indoor stations		
IVH4222-0140	Up to 24	Up to 24
IWV5211-0140	Up to 24	Up to 24

A maximum of five video distributors are permitted in the active speech channel.

H x W x D in mm	Price	PK	Article no.
52 x 52 x 23	€96.00	1	<a href="#">FVW3030-0600</a>

Please see the product information or 2-wire video planning manual for a full overview of the possible circuit examples.

## 2-WIRE VIDEO:BUS FILTER BOARD



For connecting 'older' TCS:BUS components (e.g. audio indoor stations ISH3x30-0140 and ISW3x30-0140).

- > Filter component on the 2-wire video:BUS system
- > Type of mounting: can be integrated
- > Input voltage: +32 V DC + 2 V
- > Output voltage without load: 27 V DC
- > Output voltage with load: ca. 24 V DC
- > Output current: I = 70 mA (on device in standby connected to output)
- > Maximum output current: I(max) = 120 mA (on active device connected to output)
- > Dimensions H x W x D in mm: 28 x 26.5 x 6 (incl. double-sided adhesive tape)
- > Acceptable ambient temperature: -5 to 40°C
- > Degree of protection IP00, protect against moisture

H x W x D in mm	Price	PK	Article no.
28 x 26.5 x 6	€35.00	1	<a href="#">FVW3040-0000</a>

## 2-WIRE VIDEO:BUS MATCHING RESISTOR



Matching resistor for operating TCS:BUS TASTA Audio (ISW5010-0145) indoor stations at the end of a 2-wire video:BUS strand.

- > Type of mounting: integrable, secured with adhesive pads
- > Input voltage: +32 V DC + 2 V
- > Dimensions H x W x D in mm: 105 x 16 x 5
- > Acceptable ambient temperature: -5 to 40°C
- > Degree of protection IP20, protect against moisture

H x W x D in mm	Price	PK	Article no.
105 x 16 x 5	€18.50	1	<a href="#">0038794</a>



Product information  
FVW3030-0600



2-WIRE VIDEO  
planning manual

# DISTRIBUTION

## 2-WIRE VIDEO:BUS TWO-WAY VIDEO DISTRIBUTOR (FLUSH MOUNT)



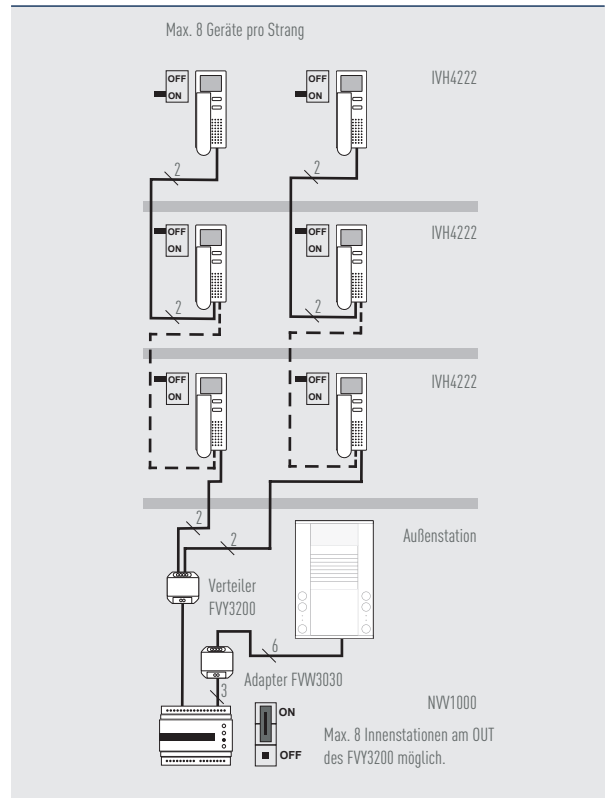
For distribution in video strings

- > Preferably for use in riser systems to connect stub lines
- > Number of video inputs: 1
- > Number of video outputs: 2
- > Mounting in a flush-mount box
- > Matching resistor can be activated/deactivated by a jumper
- > polarity free
- > Supply voltage: 32 V DC +2 V/-6 V
- > Acceptable ambient temperature: -5 to +40°C
- > Degree of protection IP20

H x W x D in mm	Price	PK	Article no.
52 x 52 x 23	€99.00	1	<a href="#">FVY3200-0600</a>

Note: the FVY3200-0600 replaces the previous FVY2200-0600 device.  
As the external wiring differs, both devices must NOT be combined in one system.  
Please see the product information and 2-wire video planning manual for circuit examples featuring the FVY3200-0600.

### 2-strand system on the video distributor



Please see the product information or 2-wire video planning manual for a full overview of the possible circuit examples.



Product information  
FVY3200-0600



2-WIRE VIDEO  
planning manual





2-wire video front-door station for wall mounting, AVC series,  
for 1 to 3 flats

# FEATURES AND ELECTRICAL CHARACTERISTICS

2-WIRE VIDEO FRONT-DOOR STATIONS		2-wire video front-door station AVC series
System functions	Allocation per bell button	2
Trigger functions	Door call	•
	Light switches	•
[De-)activatable functions	Acknowledgement tone	•
Selection and settings	Voice output volume	•
	Acknowledgement tone volume	•
	Microphone sensitivity	•
	Length of call	56 s
	Door standby time	56 s
	Call time (factory setting)	4 s
Displays	Status indication	
	Illuminated name plate	•
	Key illumination	
Housing and installation	Type of mounting:	wall mount
	Bell/input buttons	Chrome-plated full metal
	Opening principle	win:clip
Video camera	Angle of coverage	90°
	Type of camera	Colour
	Suitable for daytime and night-time use	•
	IR illumination   max. distance with IR illumination	•   0.5 m
	Image sensor	CMOS
	Resolution in TVL	500
	Photo sensitivity	1 Lux
	Focal length f	3.6 mm

2-WIRE VIDEO FRONT-DOOR STATIONS		2-wire video front-door station AVC series
Input current I(av), in standby	in mA	65
Input current I(av)/I(Pv), max.	in mA	110
Supply voltage	+32 V DC ± 2 V	•
Wiring technique (number of wires)	2 wires	•

2-wire video front-door station AVC series



2-WIRE VIDEO  
INDOOR STATIONS

		2-wire video door phone IVH4222-0140	2-wire video TASTA Video IVW5211-0145
System functions	Voice transmission	Duplex com.	Hands-free com.
	Audio and video privacy function, automatic call cut-off	•	•
	Announcement function		
	LAN   WLAN connection		
Trigger functions	Door release	•	•
	Light switches	•	•
	Switching	•	•
	Internal call		•
	Image activation, camera selection	•	•
	Camera control		
[De-]activatable functions	Push-to-talk communication		•
	Automatic hands-free communication after internal call		•
	Ring tone mute	•	•
	Parallel allocation	•	•
	Call diversion		•
	Automatic door release		•
	Floor door release function		•
Selection and settings	Number of selectable ring tones	7*	13
	Number of selectable ring tones per bell button		
	Number of acoustic call distinctions	4	4
	Ring tone volume	•	•
	Voice output volume		•
	Colour intensity, brightness (contrast)	•	•
Displays	Ring tone mute		•
	Display of a busy line		•
	Door and internal calls (short-term memory)		•
	Call diversion or automatic door release		•
	Sensor function (status indication)		
	Short message received		
Housing and installation	Material and colour	White plastic	White ASA plastic
	Type of mounting:	wall mount	wall mount
	Extended functions with		SmartSlot FFL2200-0
	Magnetic handset cradle		
Video display	Display size in cm (inch) and display type	8.9 [3.5]	8.9 [3.5]
	Resolution in pixels	320x240	320x240

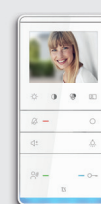
\* Only via configo

 2-WIRE VIDEO  
INDOOR STATIONS

		2-wire video door phone IVH4222-0140	2-wire video TASTA Video IVW5211-0145
Input current I(av), in standby in mA	in mA	1.48	2*/4**
Input current I(av), max.	in mA	93	150
Additional ports	For floor push-buttons	•	•
Supply voltage	+32 V DC ± 2 V	•	•
Wiring technique (number of wires)	2 or 3 wires possible	•	•

 \* Ambient lighting on  
\*\* Ambient lighting off

 2-wire video door phone  
IVH4222-0140

 2-wire video TASTA Video  
IVW5211-0145




TCS TürControlSysteme AG  
Geschwister-Scholl-Straße 7  
39307 Genthin  
Germany

Head office +49 3933 8799-10  
Fax +49 3933 8799-11

Email [info@tcsag.de](mailto:info@tcsag.de)  
Web [www.tcsag.de](http://www.tcsag.de)

TCS TürControlSysteme GmbH  
Österreich  
Gewerbepark C10  
2821 Lanzenkirchen  
Austria

Head office +43 2627 45266-0  
Fax +43 2627 45266-20

Email [office@tcs-austria.at](mailto:office@tcs-austria.at)  
Web [www.tcs-austria.at](http://www.tcs-austria.at)

#### OFFERS

Phone +49 4194 9881-166  
Fax +49 4194 9881-169  
Email [angebote@tcsag.de](mailto:angebote@tcsag.de)

#### SALES

Phone +49 4194 9881-144  
Fax +49 4194 9881-149  
Email [verkauf@tcsag.de](mailto:verkauf@tcsag.de)

#### TRAINING COURSES

Phone +49 4194 9881-155  
Fax +49 4194 9881-159  
Email [schulungen@tcsag.de](mailto:schulungen@tcsag.de)

#### HOTLINE

Phone +49 4194 9881-188  
Fax +49 4194 9881-189  
Email [hotline@tcsag.de](mailto:hotline@tcsag.de)



Presented by

