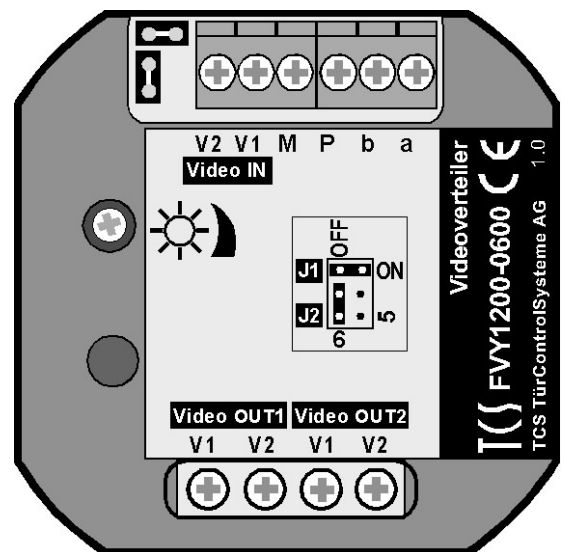


Product information

Dual video distributor FVY1200-0600

for flush-mounting



Scope of delivery

1 x FVY1200-0600,
Product information

Safety notices

! Assembly, installation and commissioning must only be carried out by a qualified electrician!

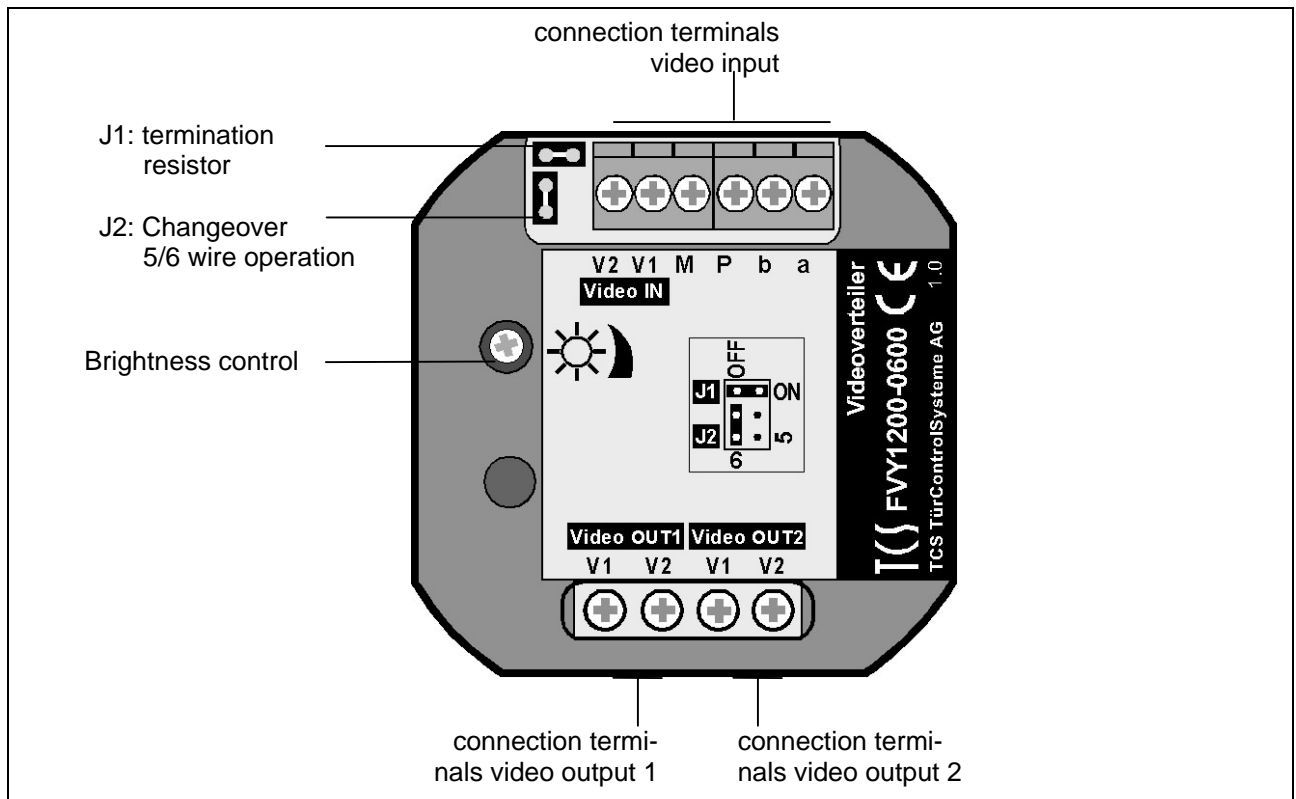
For work on systems with 230 V AC mains voltage the safety requirements of DIN VDE 0100 must be observed.

When installing TCS:BUS systems the general safety rules for telecommunication systems in accordance with VDE 0800 must be observed:

- separate cabling for high and low voltage lines,
- minimum distance of 10 cm for joint cabling arrangements,
- use of separators between high and low voltage lines in joint cable ducts,
- use of standard telecommunication cables, e. g. J-Y (St) Y with 0.8 mm cross section,
- existing cables (modernisation) with different cross sections may be used whilst taking account of the loop resistance.

! Suitable lightning protection must ensure that a voltage of 32 V DC will not be exceeded at the TCS:BUS wires a and b.

Device overview



Technical data

Supply voltage:	+ 24 V \pm 8 % (via power supply and control unit)
Case:	built-in case
Dimensions (in mm):	H 52 x W 52 x D 23
Weight:	30 g
Operating temperature range:	-20 °C ... +50 °
Input current:	I(a) = 0.0 mA, I(P) = 40 mA
maximum input current	I(Pmax) = 60 mA
input / output impedance:	100 Ohm balanced (J1 fitted)
Amplification adjustment:	0 to +12 dB (total)
Maximum output level:	4 Vpp at 100 Ohm (by 1 Vpp at input)

Application

- The FVY1200-0600 accepts an video signal and distributes it to two active independent outputs.
- The device is suitable for installation in a one gang box behind the front-door station or directly in the flush-mounted installation box of the flush-mounted front-door station.
- It is preferably applicable in rise cable systems. For other applications use dual video distributor FVY1200-0400 (for DIN-rail mounting)!

Brief description

Basic functions

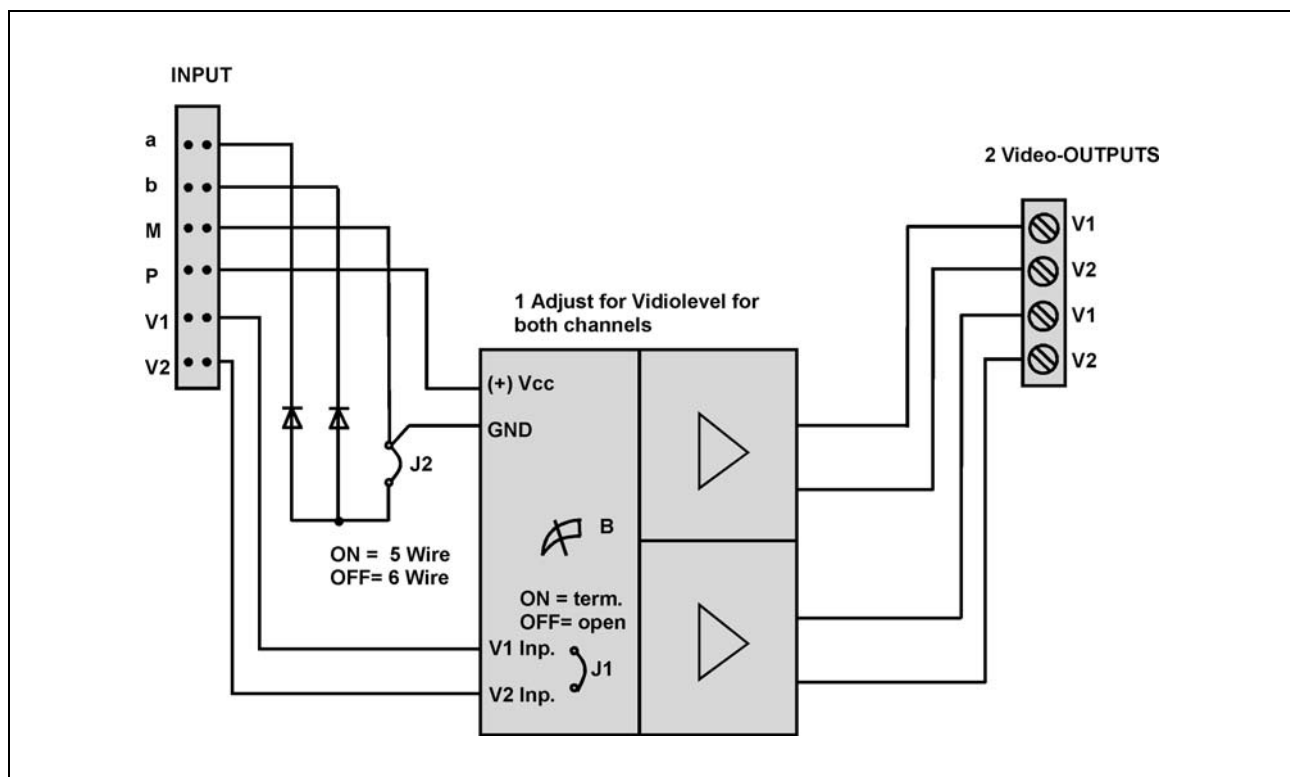
Video inputs	1
Video outputs	2, activ, independent
Output level for each line	0 dB to 12 dB, manually adjustable

Additional functions

Amplification brightness	adjustable factory setting: amplification 1 (Minimum)
Voltage gain	independent of output load
Loop-through	up to 25 video distributors
Minimum amplification	0 dB (1 Vpp)*
Maximum amplification	12 dB (4 Vpp)*

* by 1 Vpp at input and 100 Ohm, terminated.

Block circuit diagram



Installation

To be noted during connection



By installation outdoors: Prevent ingress of water into the device with appropriate actions!



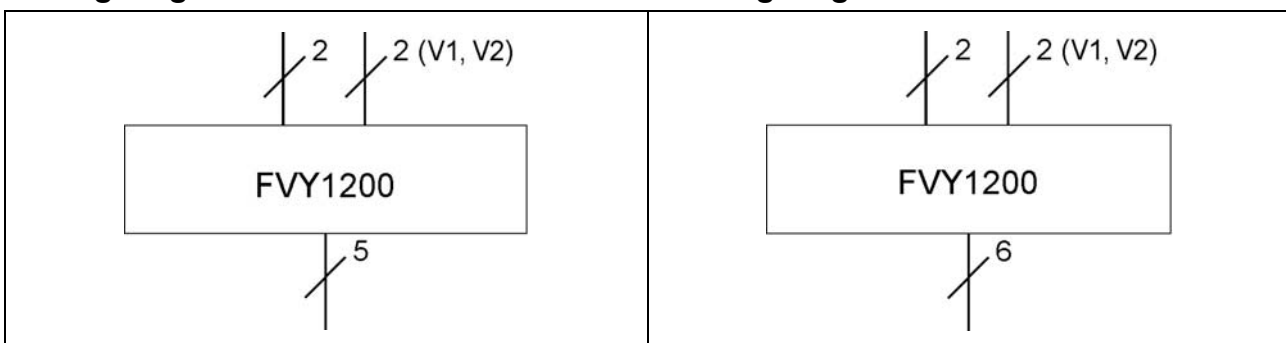
- Disconnect the supply voltages before working on the device!
- Always remove the termination resistor. Only if the device is installed as the terminal device at the end of a TCS:BUS video line, it has to be fitted!
- For cable connecting auxiliary terminals are necessary on site.

Cable cross sections for the connecting cables

Terminals	Cable cross section	Cable diameters
Connection terminals video output *, Connection terminals TCS:BUS *	0.2 ... 1.5 mm ²	0.5 ... 1.4 mm
Connection terminals video input 1 and 2	0.2 ... 1.5 mm ²	0.8 ... 1.8 mm

* Video wire: twisted pair cable with diameter 0,8 mm
(e.g. standard-telecommunication cable J-Y(St)Y 4x2x0,8)

Wiring diagramm 6-wire-connection



Commissioning

- Fully install the devices of the system.
- Check the a and b wires for short circuits.
- Switch on the mains supply.



First fully install the system, then connect power!

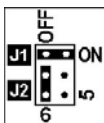


- V1 and V2 must never - not even temporarily - be connected to the P, a or b wires. Such a connection would destroy the device.
- When connecting the video wires V1 (+) and V2 (-) the polarity must be observed. If the image is distorted after commissioning, switch off the device and replace the wires for the video signal.

Setup

Factory setting

Brightness control: Counter clockwise stop, amplification 1 (0 dB) , linear frequency response.



Jumpers

J1 = fitted = horizontal = termination resistor on the input activ

J2 = not fitted = vertical = 6-wire-operating

Configuring

	<p>J1: for setup the FVY1200 as terminal device.</p> <p>Fitted (horizontal, fitted to both upper contacts), the video distributor is installed as the terminal device at the end of a TCS:BUS video line. It activates the termination resistor at the input.</p> <p>Not fitted (vertical, to two upper contacts): the video distributor is not installed as the terminal device at the end of a TCS:BUS video line.</p> <p>average terminals without assignment</p> <p>J2: for earth connecton in 5-wire-special operating mode (b – M, divice-internal).</p> <p>Fitted (horizontal, fitted to both lower contacts): the video distributor is operated in a TCS system with 5-wire- special operating mode.</p> <p>Not fitted (vertical, to two lower contacts): the video distributor is operated in a TCS system with 6-wire- operating mode.</p>
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Adjusting image quality

A reduced image quality due to line losses in the system can be improved by adjusting the amplification (brightness) separately for each line

- !** Note: A second person might be needed when adjusting the video image quality

 - to ring the bell at the front-door station and
 - a third person to check the image quality at the in-house station.

1. Create a voice communication via the second person through the door communication system. See also the product information and operating instructions for the connected in-house and front-door stations and in "TCS Installer Audio".
2. Turn the brightness control, until the brightness is optimal.

Service

Contact your local sales representative or
www.tcs-germany.com