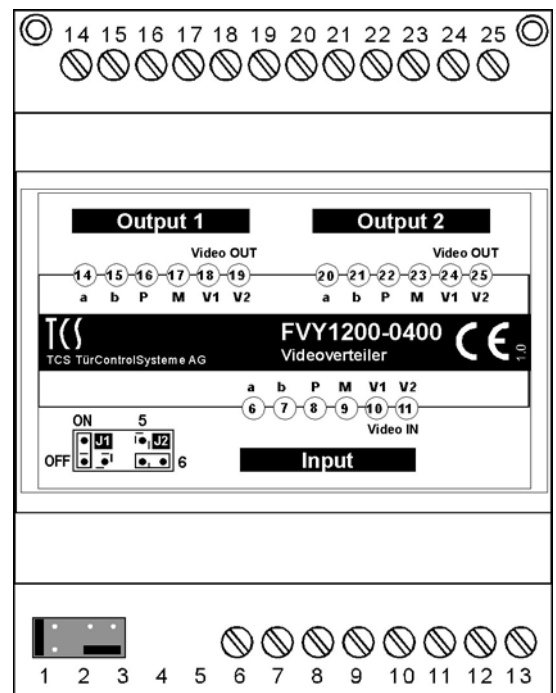


## Product information

### Dual video distributor FVY1200-0400



## Scope of delivery

1 x FVY1200-0400,  
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.

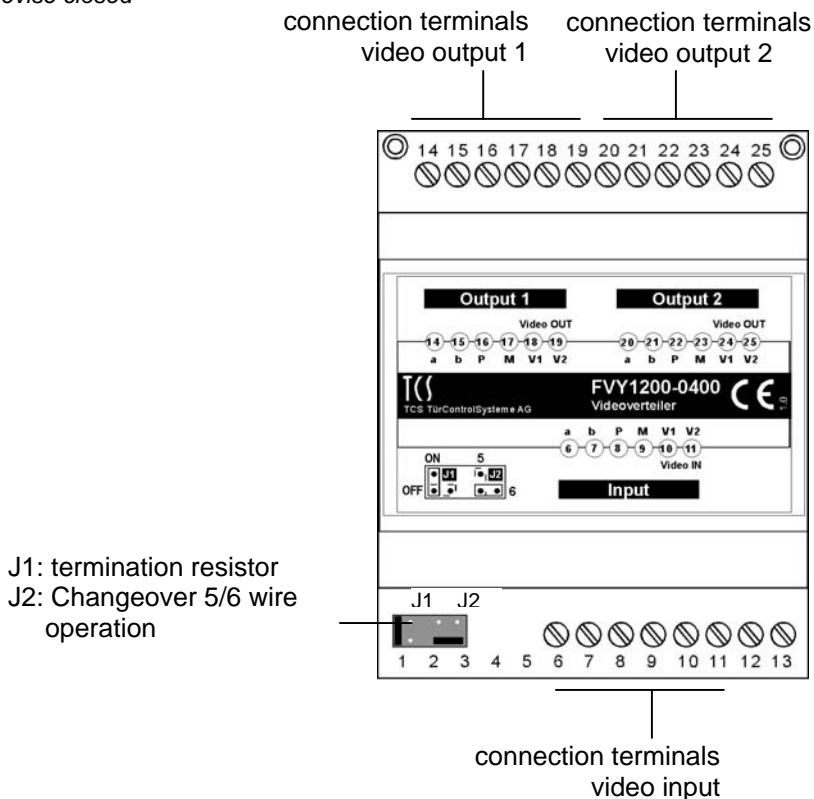
When installing TCS:BUS systems the general safety rules for telecommunication systems in accordance with VDE 0800 must be observed:

- 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

Device closed



## Technical data

Supply voltage:	+ 24 V $\pm$ 8 % (via power supply and control unit)
Case:	casing for row construction with 4 standard slots DIN EN 50022
Weight:	130 g
Operating temperature range:	0 °C to 40 °C
Input current:	I(a) = 0.0 mA, I(P) = 60 mA
Maximum input current	I(Pmax) = 70 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 FVY1200-0400 accepts an video signal and distributes it to two active independent outputs.

## Brief description

### Basic functions

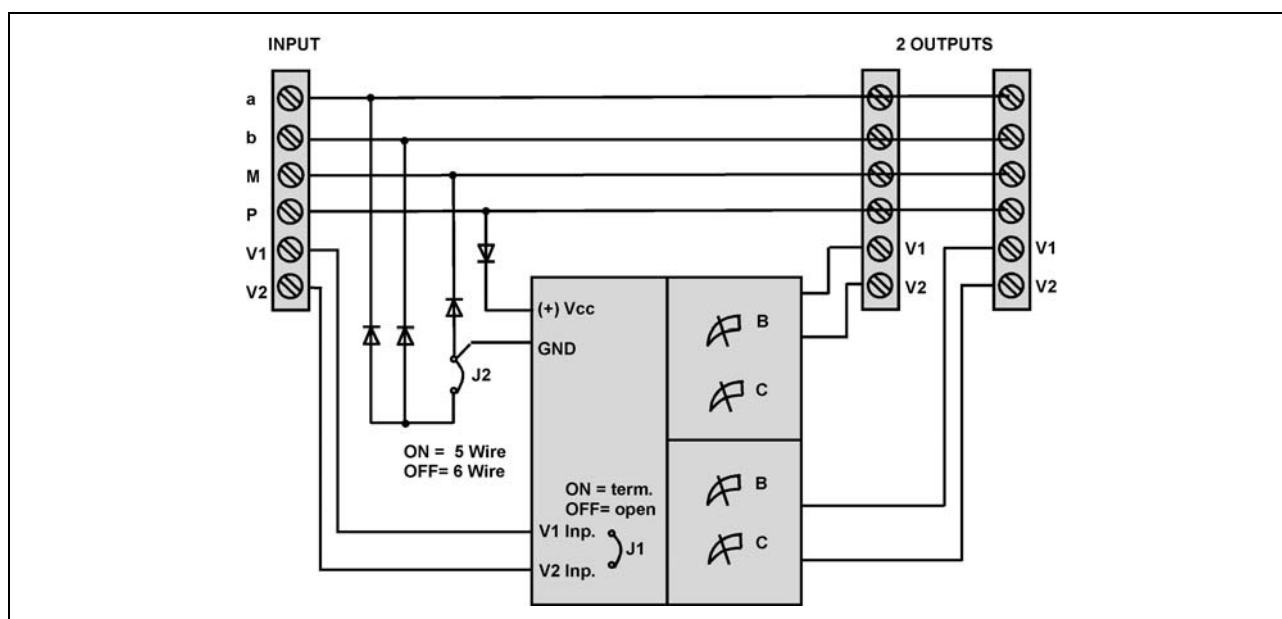
Video inputs	1
Video outputs	2, activ, independent
Output level for each line	0 dB to 12 dB, manually adjustable

### Additional functions

Amplification brightness	adjustable separately for each line factory setting: amplification 1 (Minimum)
Amplification contrast	adjustable separately for each line factory setting: amplification 1 (Minimum)
Voltage gain	independent of output load
Loop-through	up to 15 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



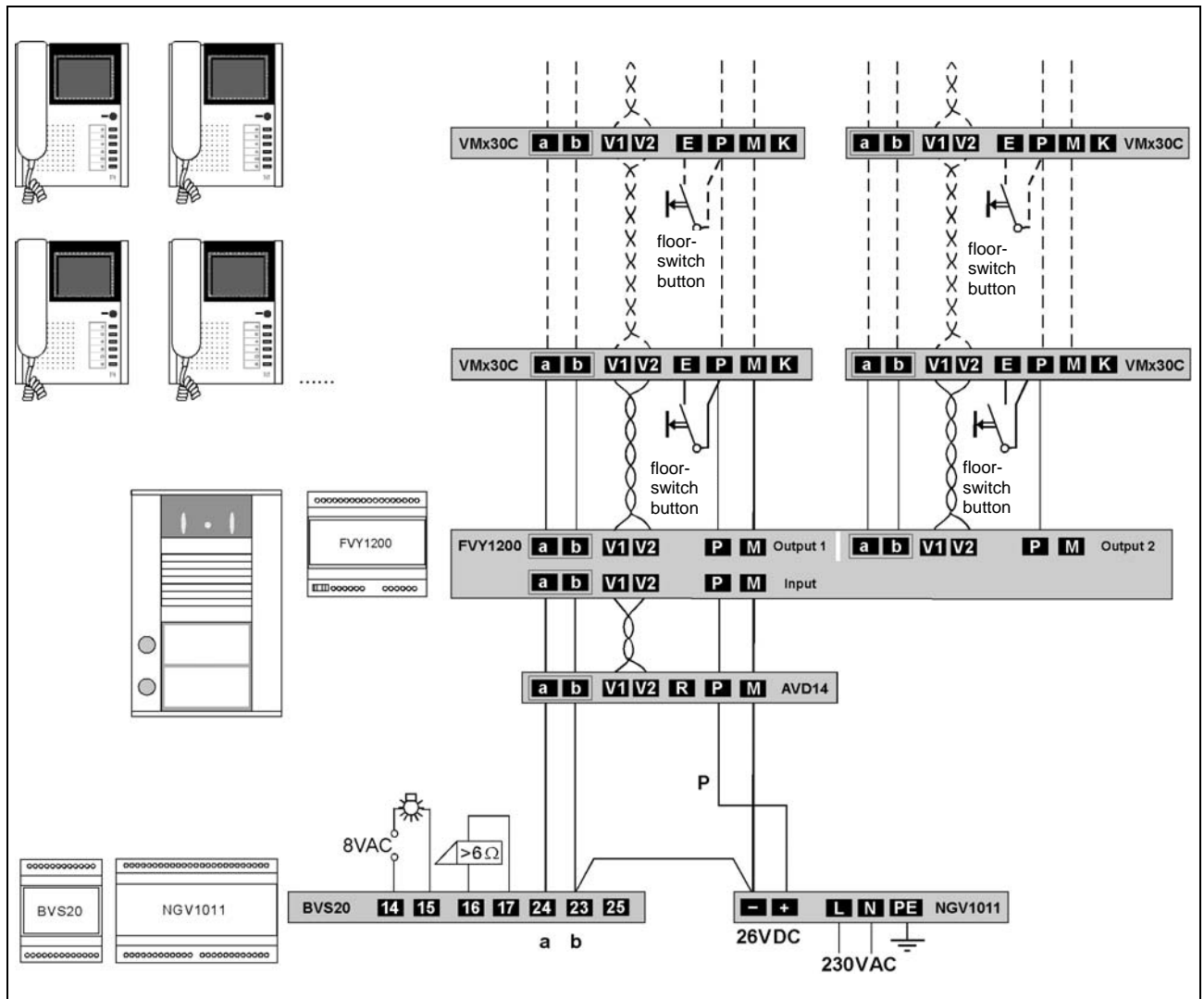
## Cable connection

### Cable cross-section

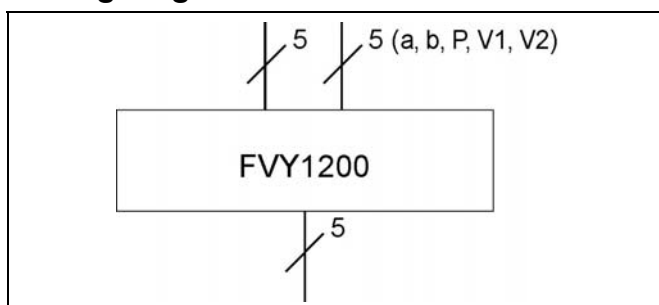
Wire to a, b, P, M recommended: 0,8 mm, maximum: 2,5 mm<sup>2</sup>

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

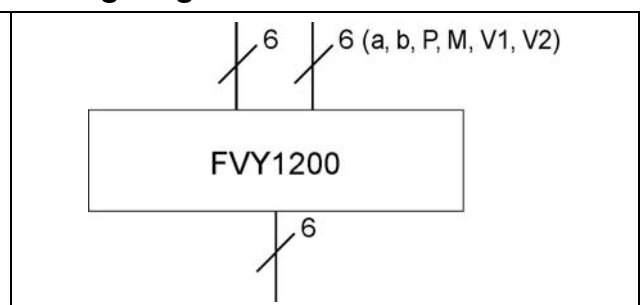
### Wiring example



### Wiring diagramm 5-wire-connection



### Wiring diagramm 6-wire-connection

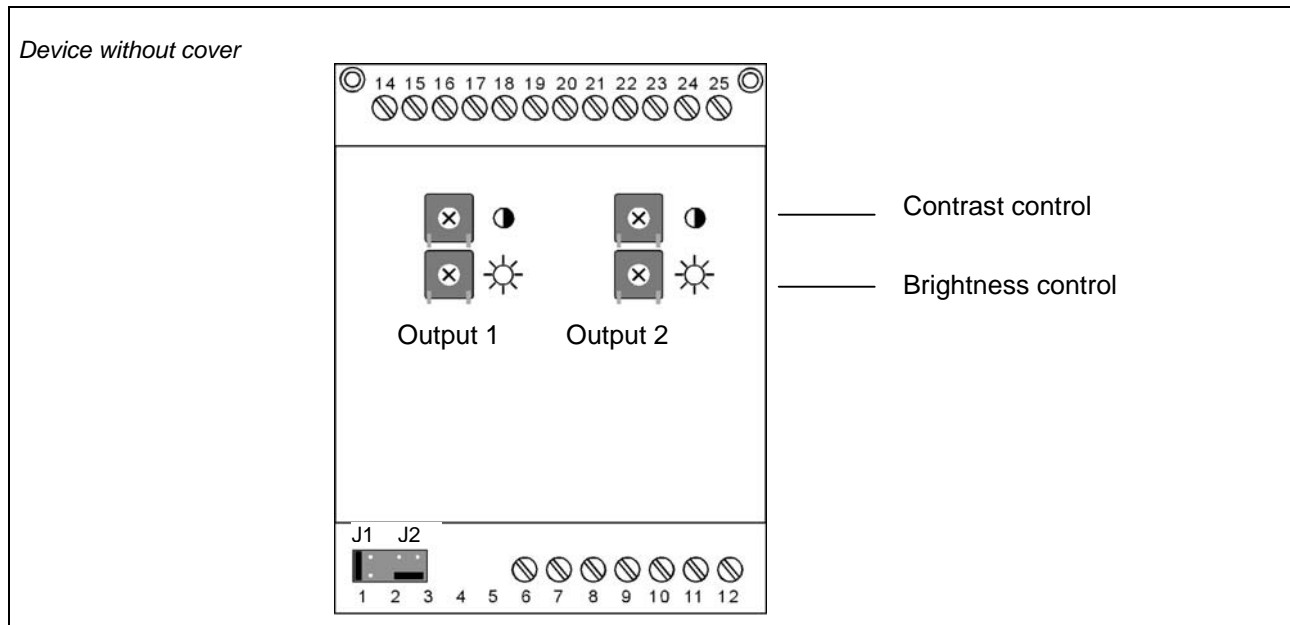


## Commissioning

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

## Setup

### Control elements



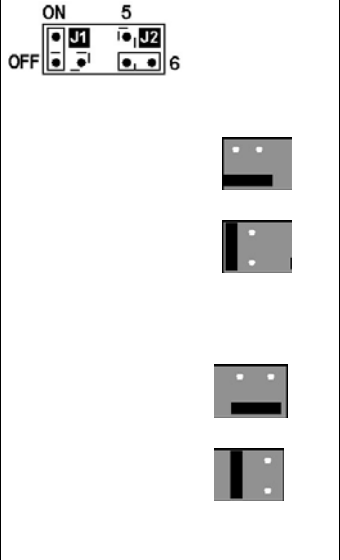
### Factory setting amplification

All contrast and brightness control:

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

### Configuring the device

Two jumpers are located at the down-left corner of the case. They are used to configure the video distributor.

Delivery condition	Configuring
	<p><b>J1: for setup the FVY1200 as terminal device.</b>  <b>Not fitted</b> *(horizontal, fitted to both lower contacts): the video distributor is not installed as the terminal device at the end of a TCS:BUS video line.  <b>Fitted</b> (vertical, fitted to both left 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><b>J2: for earth connecton in 5-wire-special operating mode (b – M, device-internal).</b>  <b>Not fitted</b> *(horizontal, fitted to both lower contacts): the video distributor is operated in a TCS system with 6-wire-operating mode.  <b>Fitted</b> (vertical, fitted to both left contacts: the video distributor is operated in a TCS system with 5-wire-special operating mode, connects b with M.</p>

\* jumper bridge / resistor not fitted:

To be able to change a unit over the jumpers are stored by being fitted to only one contact pin at a time.

### Adjusting image quality

A reduced image quality due to line losses in the system can be improved by adjusting the amplification 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 contrast control, until the colour and contrast are optimal.
3. Turn the brightness control, until the brightness is optimal.

## **Service**

Contact your local sales representative or  
**[www.tcs-germany.com](http://www.tcs-germany.com)**