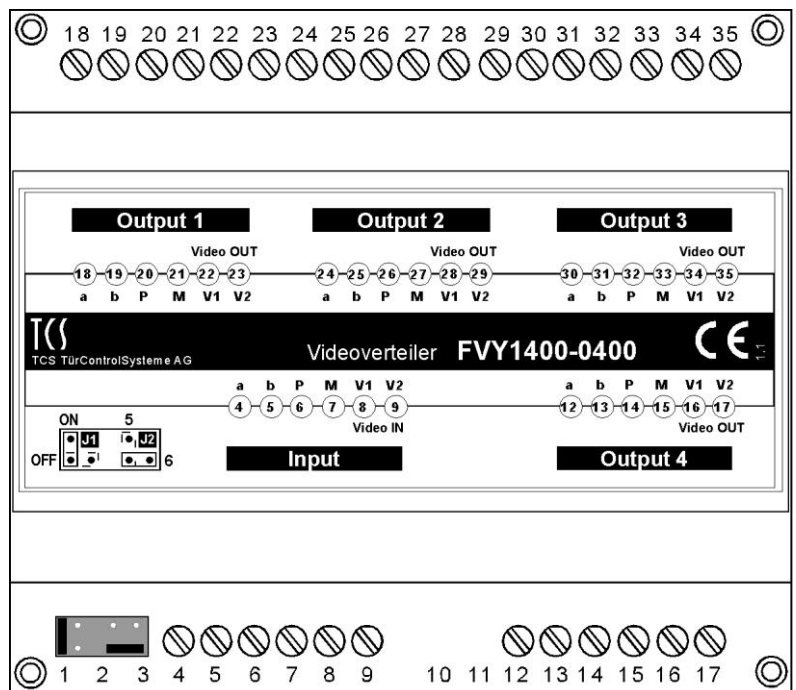


Product information

Quad video distributor

FVY1400-0400



Scope of delivery

1 x FVY1400-0400,
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.

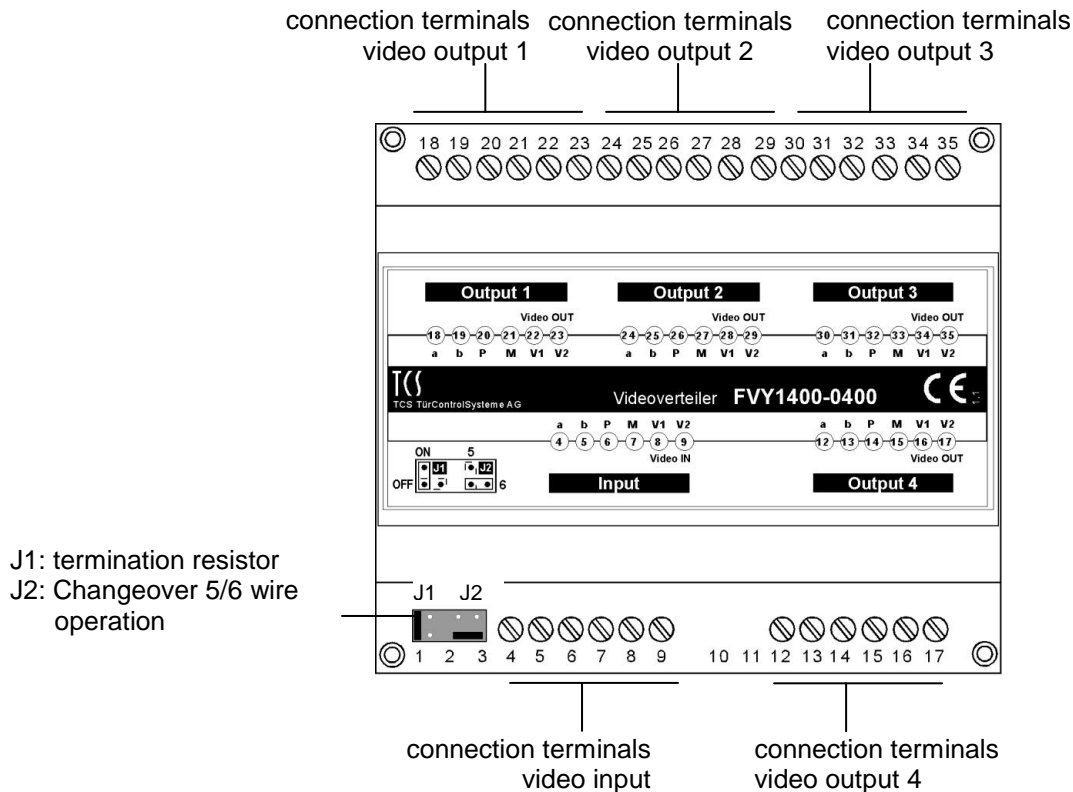
When installing TCS:BUS systems the general safety rules for telecommunication systems in accordance with VDE 0800 must be observed:

- 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 6 standard slots DIN EN 50022
Weight:	185 g
Operating temperature range:	0 °C to 40 °C
Input current:	I(a) = 0.0 mA, I(P) = 90 mA
maximum input current	I(Pmax) = 120 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 FVY1400-0400 accepts an video signal and distributes it to four active independent outputs.

Brief description

Basic functions

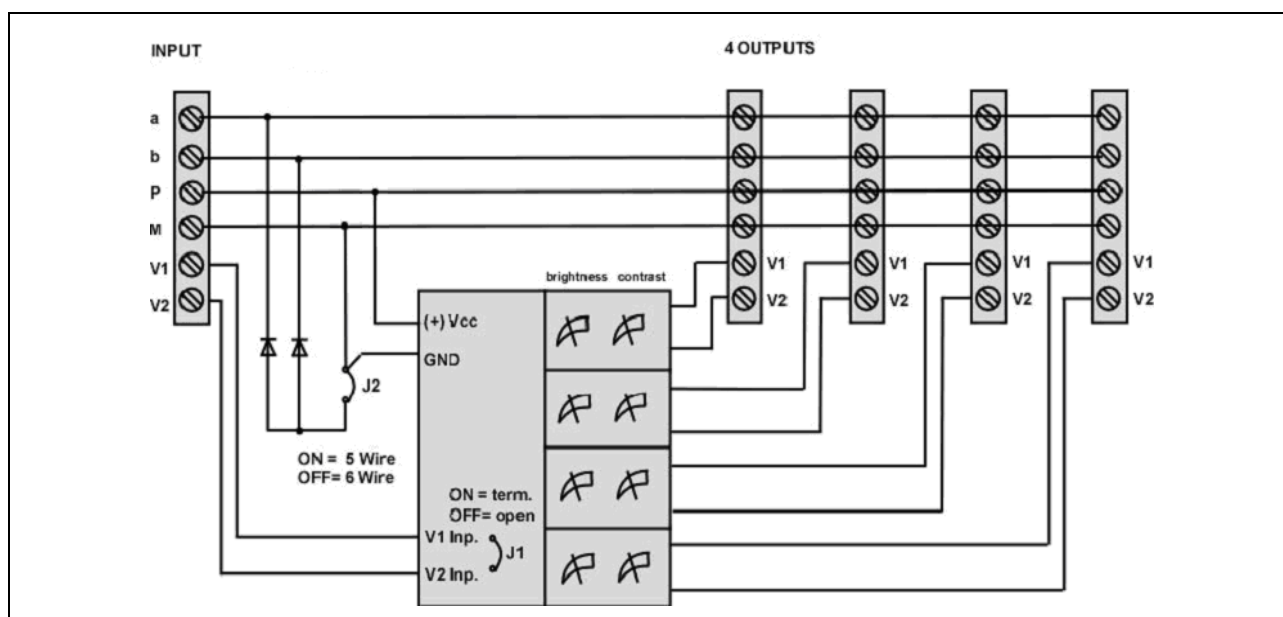
Video inputs	1
Video outputs	4, activ, independent
Output level for each line	0 dB to 12 dB, manually adjustable

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)
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

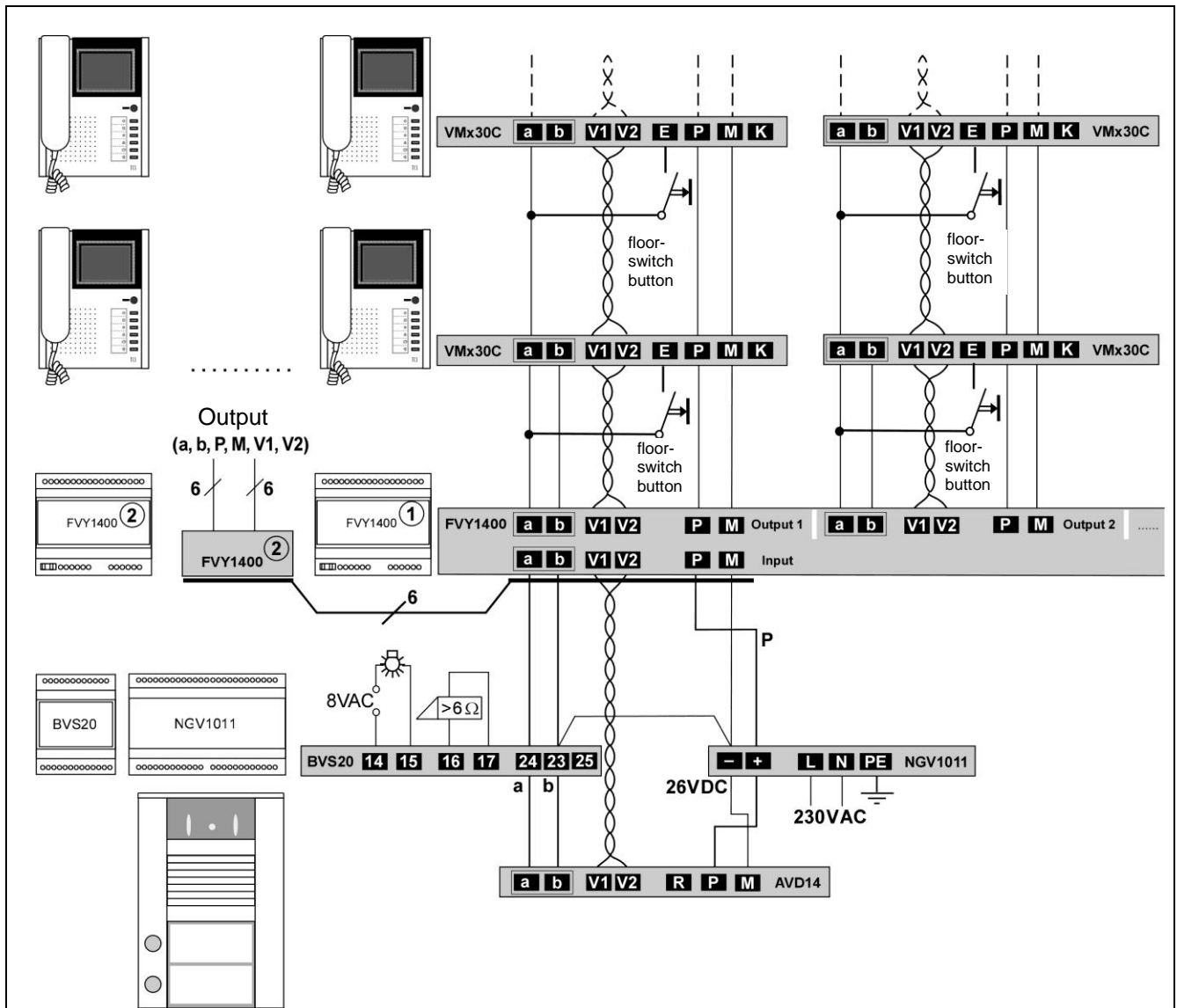
Cable cross-section

Wire to a, b, P, M recommended: 0.8 mm, maximum: 2.5 mm²

Video wire: twisted pair cable with diameter 0.8 mm

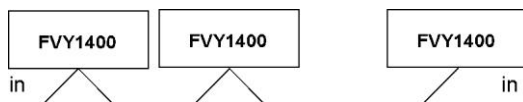
(e.g. standard-telecommunication cable J-Y(St)Y 4 x 2 x 0.8)

Wiring example

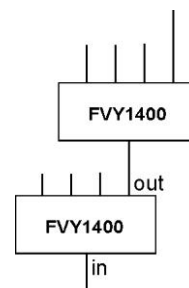


Options for wiring

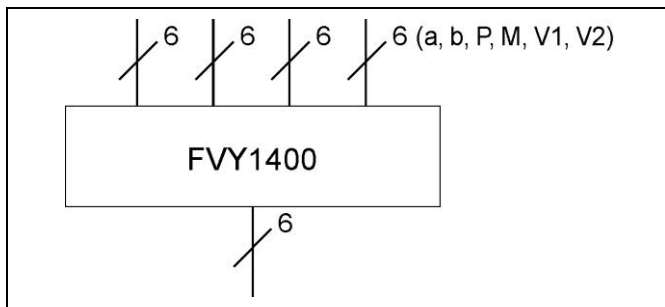
Parallel circuit: 15 max.



Series circuit: 2 video distributors max.



Wiring diagramm 6-wire-connection

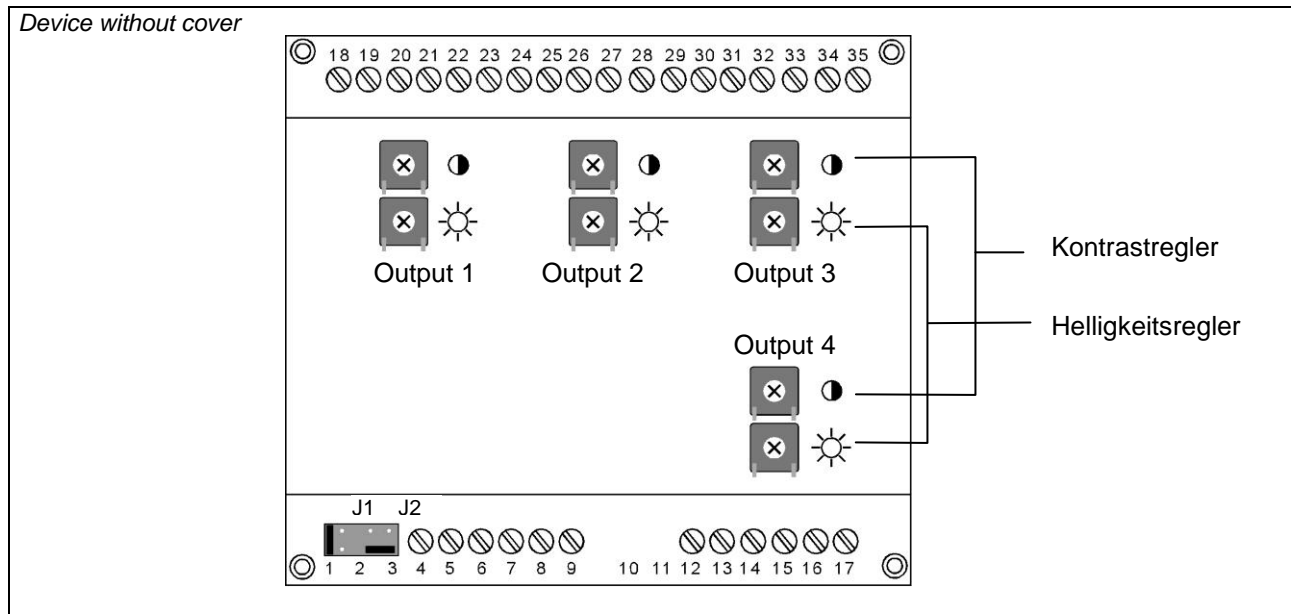


Commissioning

- 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>J1: for setup the FVY1400 as terminal device. Not fitted *(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. Fitted (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>J2: Not fitted *(horizontal, fitted to both lower contacts): the video distributor is operated in a TCS system with 6-wire-operating mode.</p> <p>Fitted : for earth connection in 5-wire-special operating mode The installation is permitted only at compliance with some conditions! Please, for a proposal for solution for your project consult our hotline.</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.

Note! FVY1400 in series connection: Adjust the amplification only slightly to prevent overdriving.

Conformity



The device meets the requirements of the EU Directive

2004/108/EG by respecting the standards: **EN 61000-6-3**, **EN 61000-6-1**.

The declarations of conformity are available under www.tcsag.de, Downloads, trade information.

Information on disposal



The adjoining symbol shows, that the device has to be disposed separately from domestic waste. The materials used are recyclable. Please do help protecting our environment and dispose the device via a collection point for electronic scrap.



Dispose the parts of the packaging in collecting tanks for **cardboard and paper**.

Warranty

We offer a **simplified processing** in case of warranty for electricians.

- Please note our **conditions of sale and delivery**, download from www.tcsag.de, downloads, trade information and also included in our current price list.
- Please contact the **TCS HOTLINE**.

Service

Contact your local sales representative or
www.tcsag.de

Headquarters

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