

Product Information

DCM Video distributor 2-gang

TK VV 2 REG



Safety instructions

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

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

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

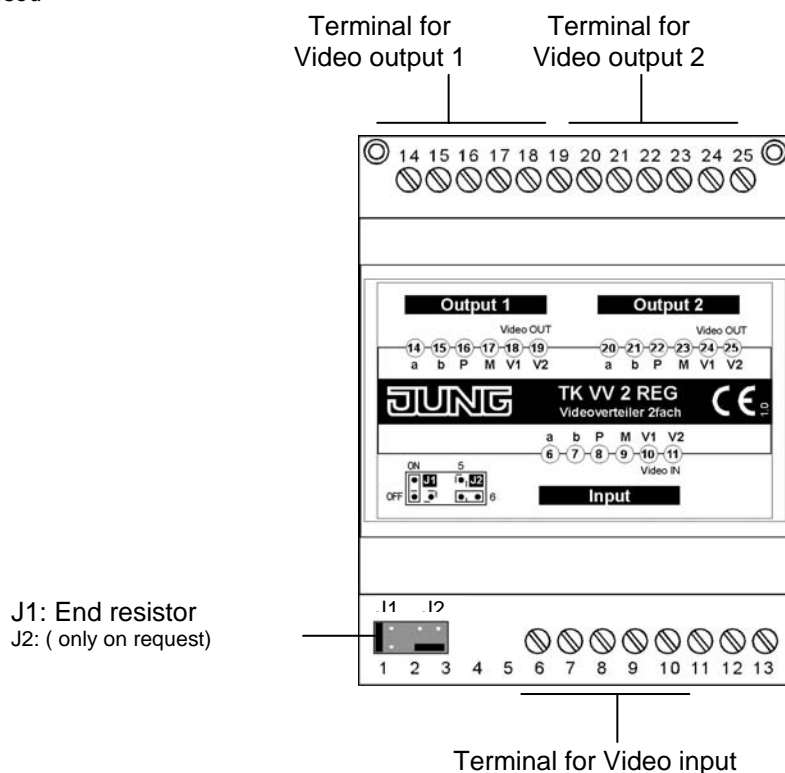
- separate cabling for high and low voltage lines
- minimum distance of 10 cm for joint cabling arrangements,
- use of separators between high and low voltage lines in joint cable ducts,
- use of standard telecommunication cables, e. g. J-Y (St) Y with 0.8 mm² cross section

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

DCM = Door Communication Management

Device overview

device closed



Technical data

Input voltage:	AC 230 V~ ± 8 % (Power supply & control unit)
Housing:	rail mounting device, 4 rail units
Weight	130 g
Permissible ambient temperature:	0 °C to +40 °C
Input current:	I(a) = 0.0 mA, I(P) = 60 mA
Max. input current:	I(Pmax) = 70 mA
Input / output impedance:	100 Ohm balanced (J1 plugged)
Amplification adjustment:	0 to +12 dB total
Maximum output level:	4 Vpp at 100 Ohm (by 1 Vpp at input)
	6-wire operation required.

Application

The TK VV 2 REG receives one video signal and distributes the signal to 2 active independent outputs.

Brief description

Basic functions

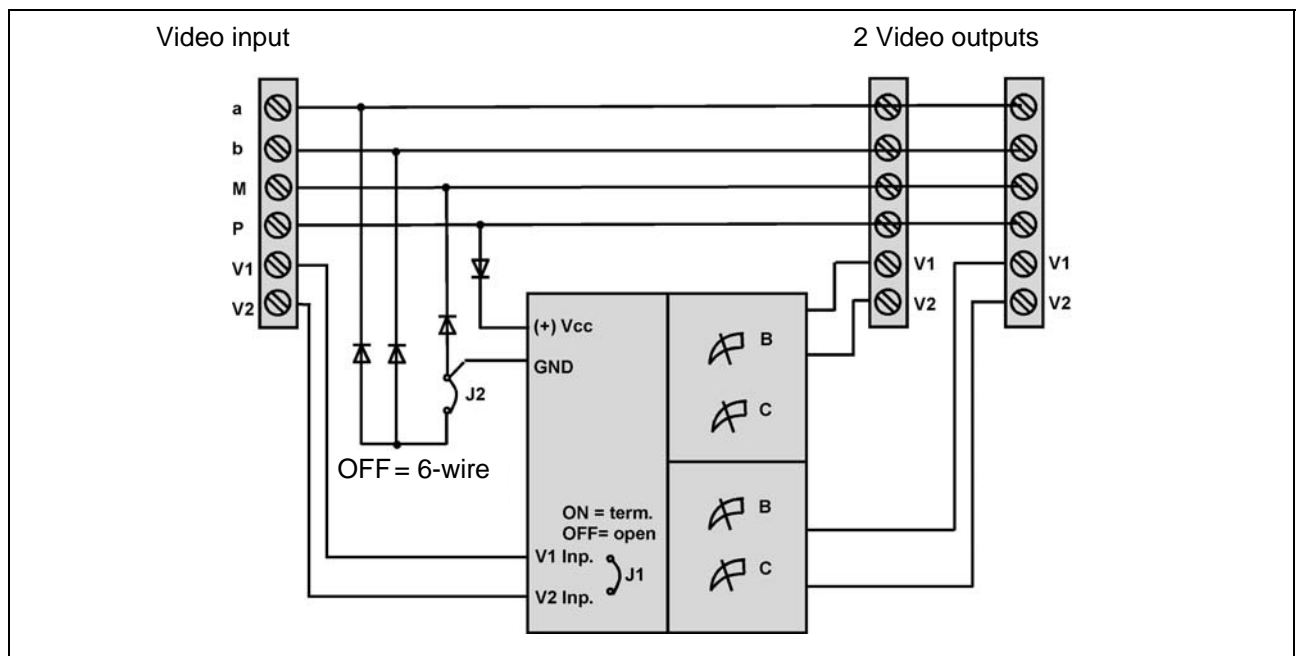
Video inputs	1
Video outputs	2 independent active outputs
Output level for each line	0 dB to +12 dB, manually adjustable

Additional functions

Brightness amplification	adjustable separately for each line with potentiometers on the device. Factory setting: amplification 1 (minimum)
Contrast amplification	adjustable separately for each line with potentiometers on the device. Factory setting: amplification 1 (minimum)
Voltage amplification	independent of output load
Loop-through	of up to 15 video distributors possible
Minimum amplification	0 dB (1 Vpp)*
Maximum amplification	12 dB (4 Vpp)*

* with 1 Vpp at the input and 100 Ohm, connected.

Internal circuit diagram



Cable connection

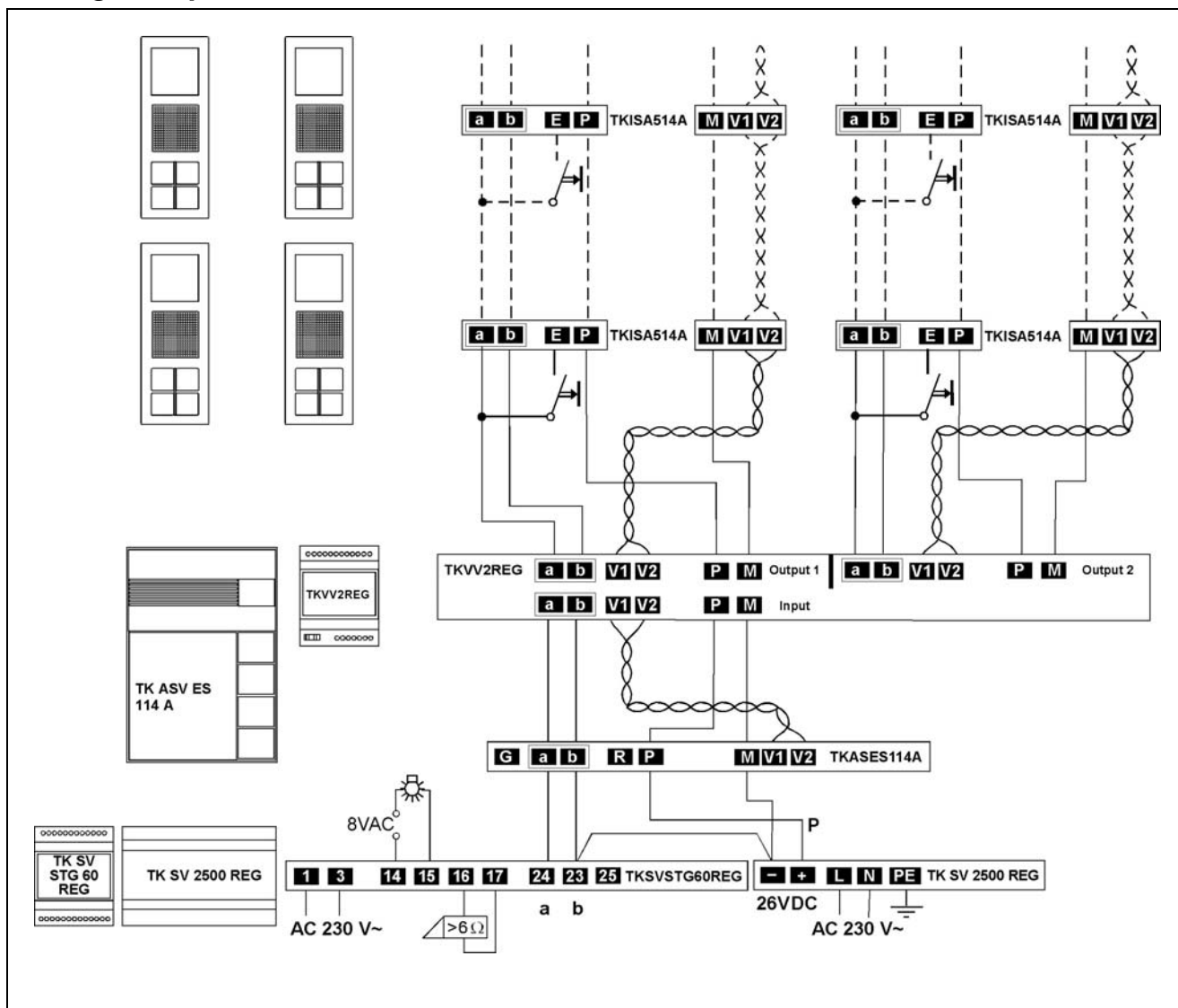
Cable cross section /diameter

Recommended cross section for a, b, P, M wires: 0.8 mm up to max 2.5 mm²

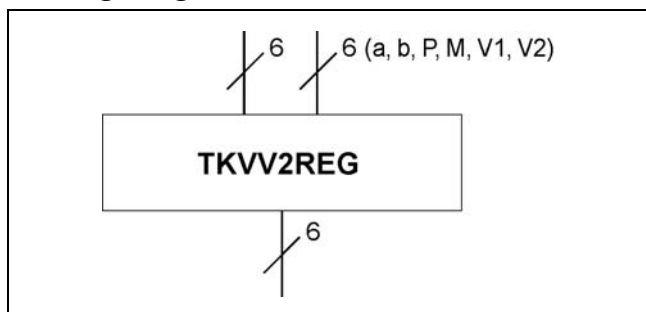
Video wires: twisted pair cable with diameter of 0.8 mm

(standard telecommunication cables, e. g. J-Y (St) Y 4x2x0.8)

Wiring example



Wiring diagram 6-wire connection



Commissioning

- Install all of the devices of the system completely.
- Check the a, b and P wires for short-circuit.
- Switch on the mains voltage.



Please complete the full installation before you connect the system to the mains voltage!

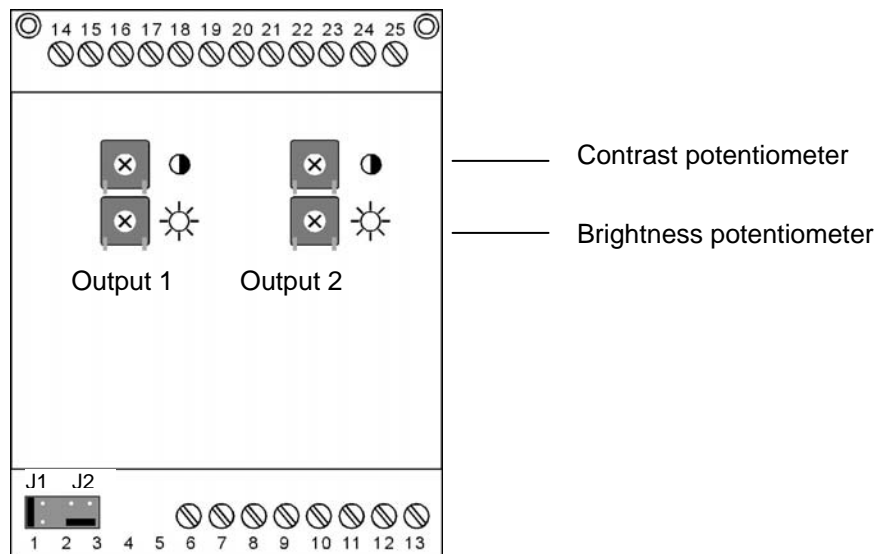


- Do NOT connect V1 and V2 with the P-, M-, a- or b-wire. Even a connection for a quick moment will destroy the device.
- When connecting the video wires V1 (+) and V2 (-) observe polarity. If you can see a distorted image on the display, switch off the mains voltage and change the wires V1 and V2..

Settings

Control elements

Device without cover

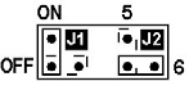





Factory setting for amplification

All contrast and brightness potentiometer:
Counter clockwise stop, amplification 1 (0 dB) , linear frequency response.

Configuring the device

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

Factory settings	Jumper settings
   	<p>J1: to adjust the TK VV 2 REG as terminal device Not fitted *(horizontal, plugged onto both lower contacts): the video distributor is not installed as the terminal device at the end of a video bus line.</p> <p>Fitted (vertical, plugged onto both left contacts), the video distributor is installed as the terminal device at the end of a video bus line. It activates the termination resistor at the input.</p> <p>J2: Not fitted *(horizontal, plugged onto both lower contacts): the video distributor is operated in a system with 6-wire-operating mode.</p>

* jumper bridge / resistor not fitted:

To enable changes of the device the jumpers are fitted onto 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

!	<p>Note: A second person might be needed when adjusting the video image quality</p> <ul style="list-style-type: none"> • to ring the bell at the outdoor station and • a third person to check the image quality at the video indoor station.
---	---

1. Start a communication between outdoor and video indoor station
(See product information of outdoor and video indoor station).
2. Turn the contrast potentiometer, until the colour and contrast are optimal.
3. Turn the brightness potentiometer, until the brightness is optimal.

Acceptance of guarantee

We accept the guarantee in accordance with the corresponding legal provisions.
Please return the unit postage paid to our central service department giving a brief description of the fault:

ALBRECHT JUNG GMBH & CO. KG

Service-Centre

Kupferstr. 17-19
44532 Lünen
Germany

Service-Line: 0 23 55 . 80 65 51
Telefax: 0 23 55 . 80 61 89
E-Mail: mail.vki@jung.de

Technique (DCM)

Service-Line: 0 23 55 . 80 65 52
Fax: 0 23 55 . 80 62 55
E-Mail: mail.vka@jung.de



Albrecht Jung GmbH & Co. KG
P.O. Box 1320
58569 Schalksmühle
Germany

<http://gb.jung.de/>
www.jung-catalogue.com

© The ©-sign is a free trade sign addressed exclusively to the authorities and does not include any warranty of any properties.

Technical subjects to change.
EN_TK_VV2_REG.doc
05/201010