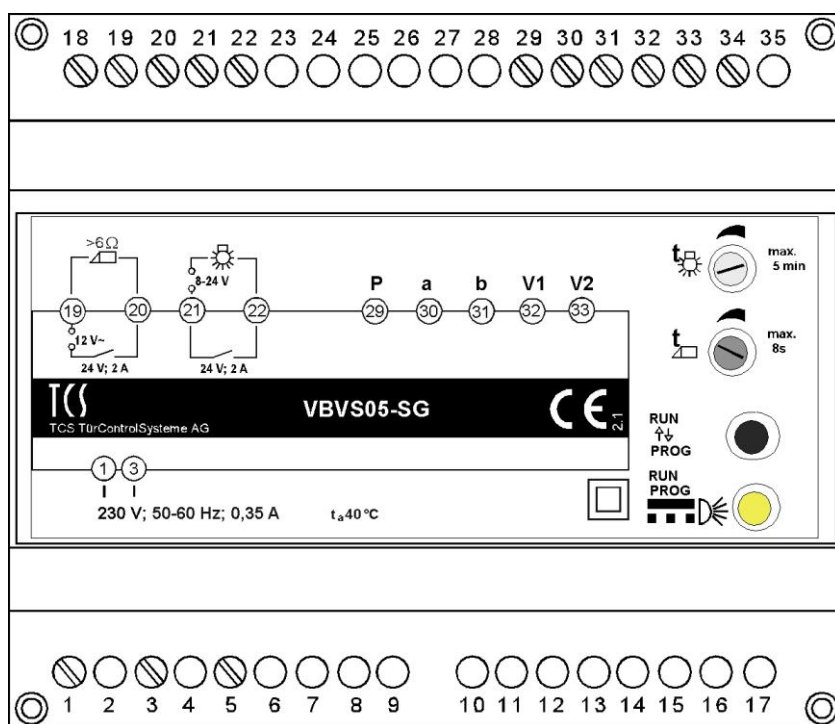


Product information

Power supply and control unit VBVS05-SG for small and medium-sized systems



Safety instructions

General safety regulations

! Attention! Mounting, installation, commissioning and repair of electronic devices have to be carried out only by qualified electricians. The standard for the prevention of accidents must be observed!

When working in systems with 230 V mains voltage, the safety requirements according to DIN VDE 0100 must be observed.

When installing TCS:BUS systems, the general safety regulations for telecommunication systems according to VDE 0800 must be observed. Inter alia:

- separated cabling of heavy and low current lines,
- minimum distance of 10 cm for common cabling,
- use of separators between heavy and low current lines in shared cable ducts,
- use of standard telecommunication lines, e.g. J-Y (St) Y with 0.8 mm diameter,
- existing lines (modernisation) with deviating cross sections can be used in compliance with the loop resistance.

Attention!

- Fluids or small electroconductive parts which enter the device can cause a short-circuit, fire or an electric shock. Please, avoid contacting the device with water or other fluids. Avoid small electroconductive parts from entering the device (e.g. in the ventilation louvres).
- The device produces heat. Ensure a sufficiently ventilation. Do not cover existing ventilation louvres.

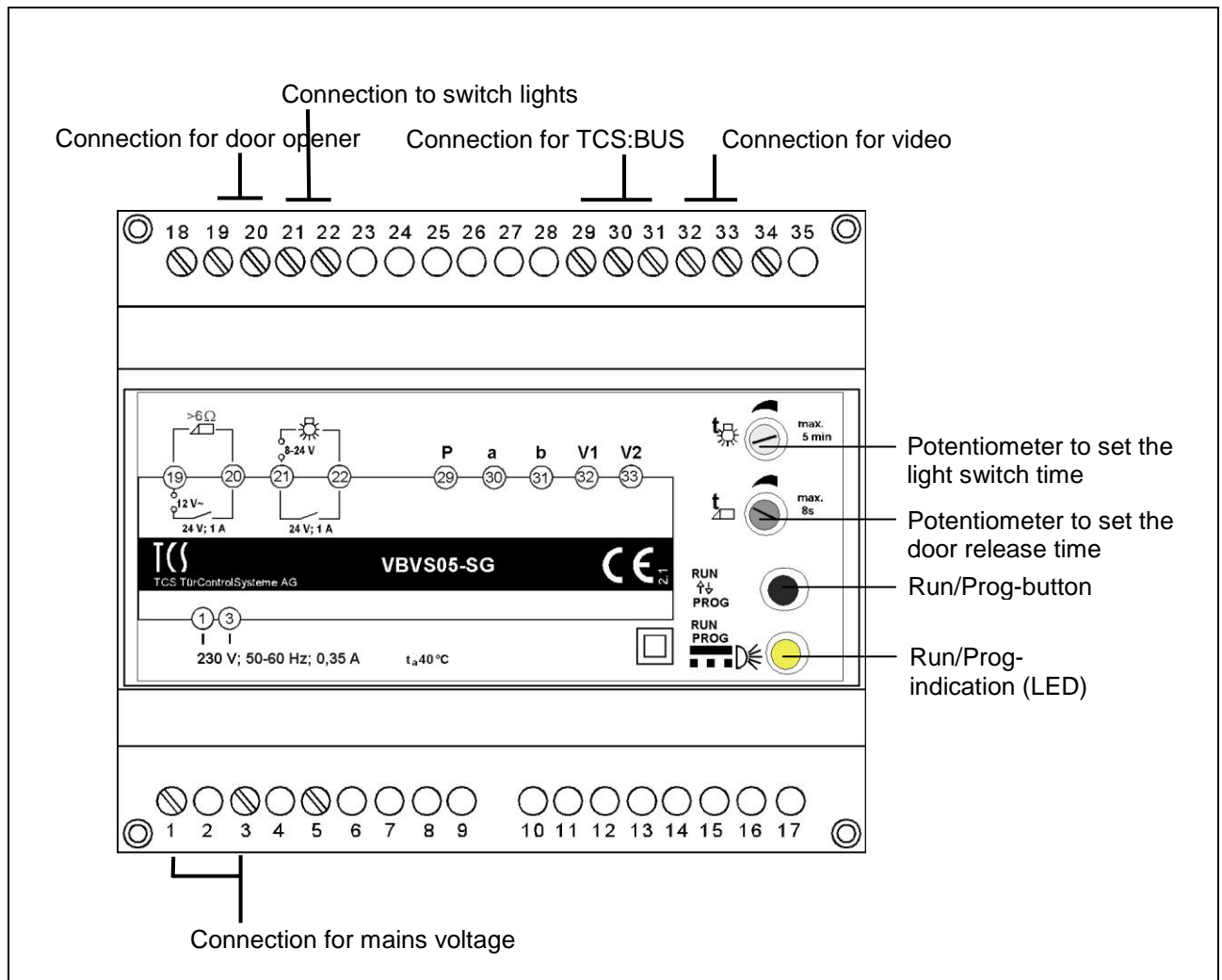
Installation – protective measures

- Outside the device, an easy accessible separating unit for mains separation is necessary.
- An overcurrent protective device is to be installed upstream.
- The device is to be installed in a way, that the user does not have any direct access to the area of the mains connection terminal after the installation.
- With suitable requirements to protect against lightning, it has to be ensured that a voltage of 32 V DC is not exceeded at the connections a, b and P.
- The device is conform to the overvoltage category II.

Scope of delivery

1 x VBVS05-SG
1 x Product information

Device overview



Technical data

Input voltage:	230 V \pm 10 %, 50 - 60 Hz
Input nominal voltage:	0.35 mA
Housing:	DIN-rail housing 4 SU for DIN-rail mounting DIN EN 50022
Weight	800 g
Acceptable ambient temperature:	0 °C to 40 °C
Degree of protection:	II
Output current a-terminal:	I(a) = 60 mA
Output current P-terminal:	I(P) = 600 mA I(Pmax) = 700 mA (for: 1 min load / 10 min break between two max. loads)
Door release voltage (idle running):	U(Tö) = 12 V \pm 2 V, 50 Hz (load-dependent)
External mains fuse:	16 A (recommended)

Usage

The VBVS05-SG is used for the central supply and control of small and medium-sized video or audio systems with one strand.

The loop resistance must not exceed max. 5 Ohm (when in 5-wire operation).

The device can be used exclusively to supply the TCS:BUS. Any other use is considered improper and is prohibited.

Short description

Basic functions

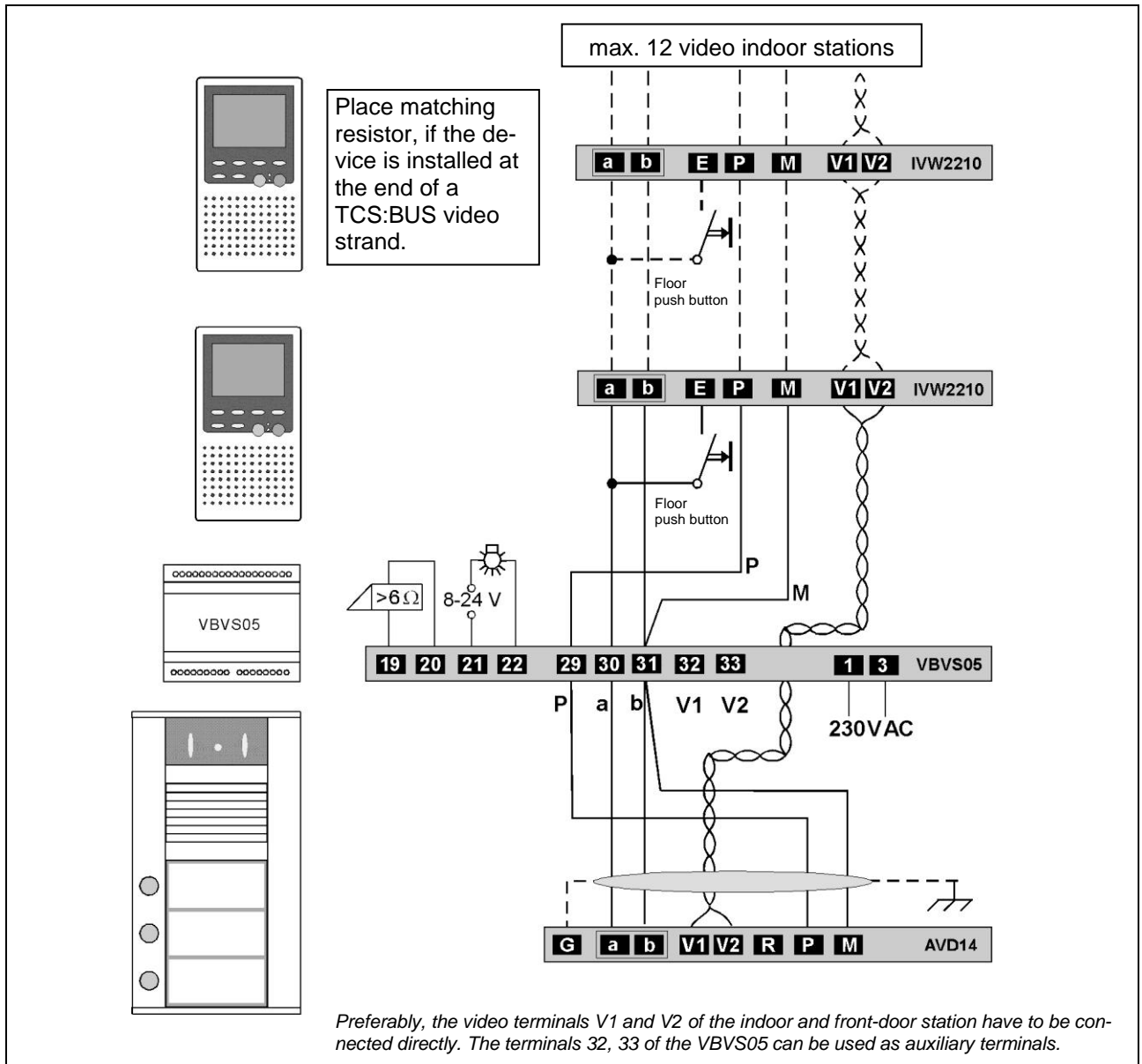
Controlling and indication of the operation modes of the system	via LED
Strand and P-terminal	Short-circuit protected against b-wire

Additional functions

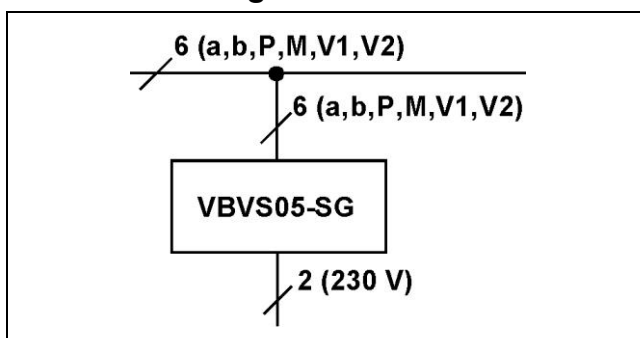
Potential-free relay contact (closing contact)	to control automatic light switching units 24 V / 2 A
Door release function	with integrated voltage supply, relay contact for door release with $R \geq 6 \text{ Ohm}$ / 12 V
Door release time	adjustable from 1 to 8 s
Light switch function	Can be activated with the VBVS05. By pressing the door release button at the indoor station, the lights can be switched via the connected automatic light switch unit, if the handset is hung up (no voice connection). Factory setting: The function is not activated.
Light switch time	adjustable from 1 s to 5 min. can be connected to: <ul style="list-style-type: none"> • automatic light switch unit (max. acceptable contact load-capacity of 24 V DC / 2 A) • staircase light control unit FNA1000 (with 8-24V AC) • relay

Installation

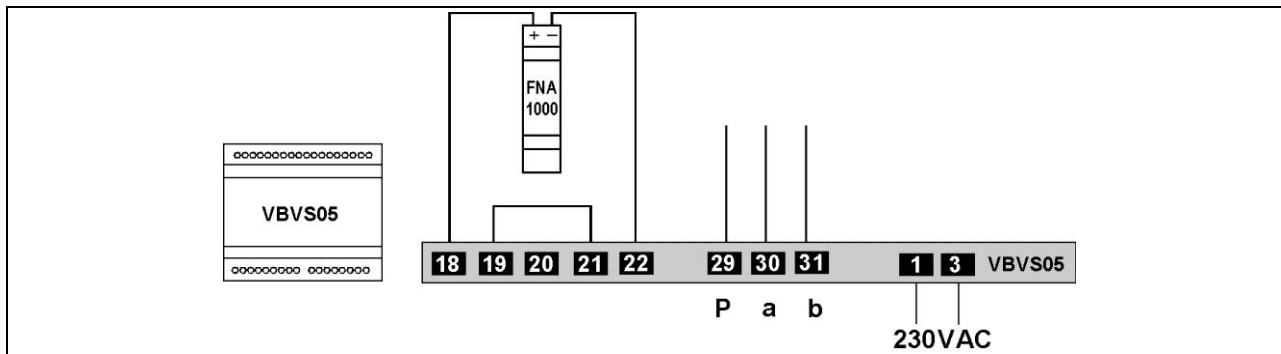
Wiring diagram



Connection diagram

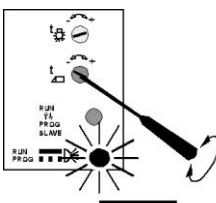
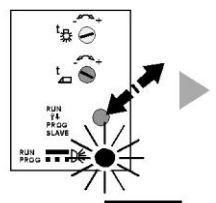
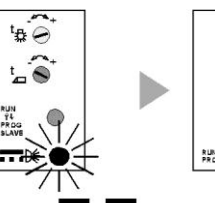
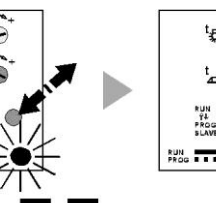
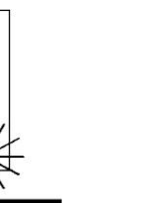


Wiring example: connect staircase light control unit FNA1000-0400

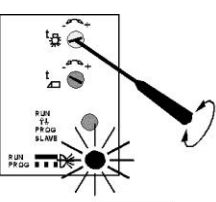
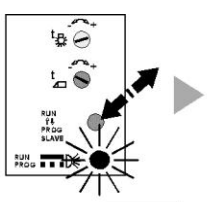
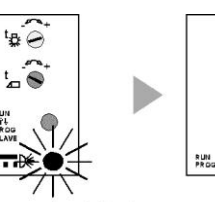
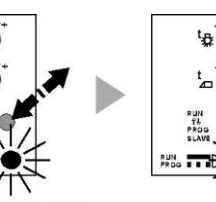
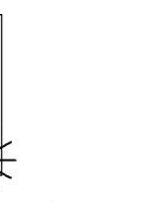


Setting


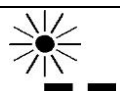




Door release time

System is operating, LED is ON				
Set time afterwards switch ON and OFF again the programming mode of the system:				
				
–: min. 1 s +: max. 8 s	RUN/PROG-button shortly press	LED blinks	RUN/PROG-button shortly press	LED is ON

Light switch time

System is operating, LED is ON				
Set time afterwards switch ON and OFF again the programming mode of the system:				
				
–: min. 1 s +: max. 5 min	RUN/PROG-button shortly press	LED blinks	RUN/PROG-button shortly press	LED is ON

Legend to setting, programming, operation

Press button until ...		LED blinks slowly	
Shortly press button		LED is ON	
Release button		further	

Programming

Activate light switch function*	
Deactivate light switch function*	

*) That the LED is blinking does not mean, that the device is in programming mode.


Operation

System is operating, LED is ON		
Switch ON the programming mode <u>of the system</u>	Shortly press RUN/PROG-button LED blinks	
Switch OFF the programming mode <u>of the system</u>	Shortly press RUN/PROG-button LED is ON	

FAQ

Error pattern	Possible cause	Our suggested solution
Speaking at the indoor station is very quiet.	By interchanging or short-circuit of the a-P-wires, a resistor at the VBVS05 was damaged.	<ul style="list-style-type: none"> VBVS05 repair (replace)

Conformity

 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 collecting point for electronic scrap.



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

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.
- Please contact the **TCS HOTLINE**.

Service

Please send your questions and inquiries to
hotline@tcsag.de

Head quarters

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