



# Product information

## DC power supply unit

### NGV1011

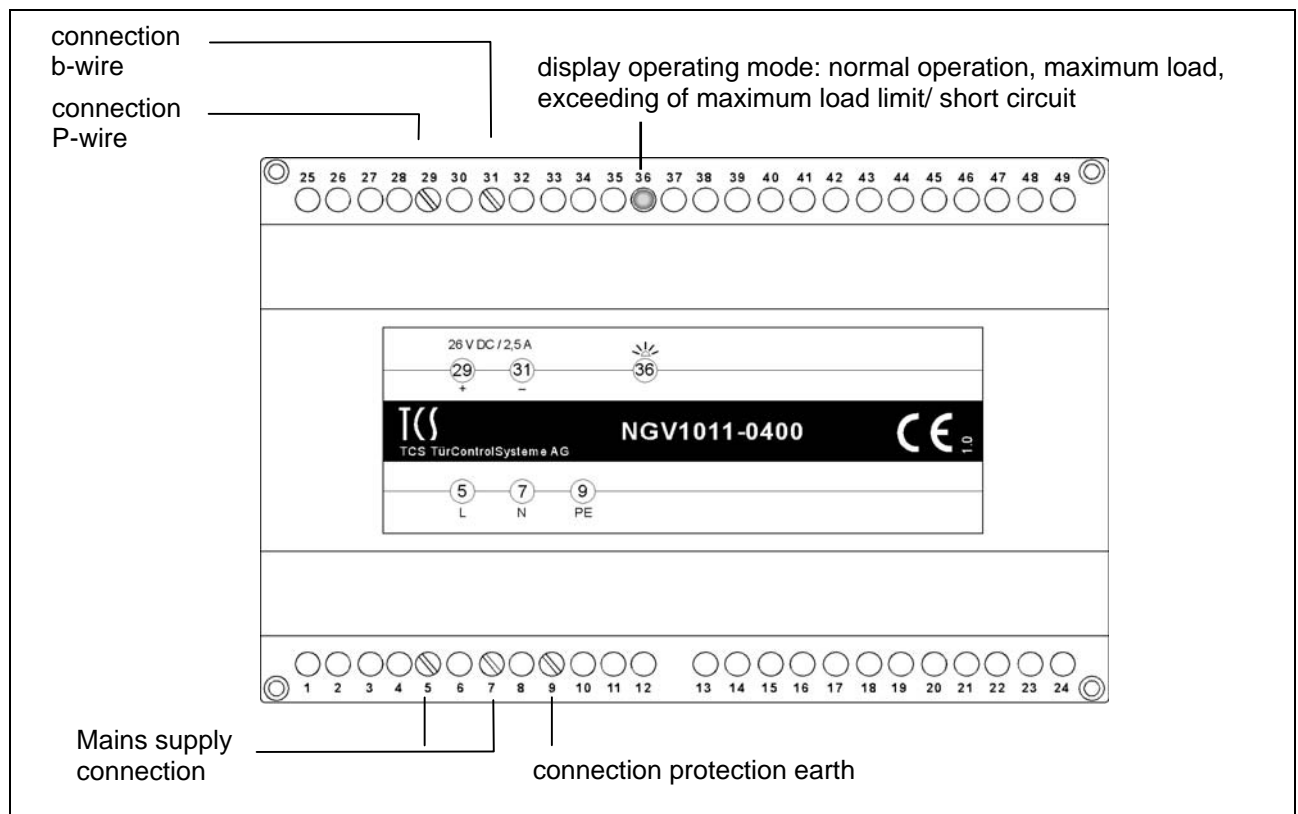
for 2,5 A

### Safety notices

#### ⚠ WARNING!

- For work on systems with 230 V AC mains voltage the safety requirements of DIN VDE 0100 must be observed.
- Assembly, installation and commissioning must only be carried out by a qualified electrician!
- 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.
  - 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:	230 V (196 – 265 V), 50/60 Hz
Output voltage:	26 V DC
Case:	casing for row construction with 8 standard slots DIN EN 50022
Dimensions (in mm):	140 x 90 x 70
Weight:	400 g
Operating temperature range:	0 °C to 40 °C
Output current:	I(+)= 2,5 A
Electromagnetic compatibility (EMC):	in accordance with EN 50081 und EN 50082-2
Radio interference suppression:	according EN 55011

## Application

The NGV1011-0400 is a switching power supply with high efficiency for a TCS system.

## Brief description

### Basic functions

Power supply	supplied output current: 2,5 A DC
Display operating mode	indicates normal operation, maximum load, exceeding of maximum load limit/short circuit via two coloured LED
Automatic short circuit detection with optical signalling	A short circuit or exceeding of maximum load limit in a TCS:BUS results in <ul style="list-style-type: none"> <li>• automatic shutdown of the secondary side and an</li> <li>• automatic recommissioning</li> </ul>

### Automatic short circuit / overload protection and recommissioning

Normal operation	LED illuminates green	<ul style="list-style-type: none"> <li>• The system is to layout in such way, that usually normal operating is indicated.</li> </ul>
Maximum load	LED illuminates red	<ul style="list-style-type: none"> <li>• The output current overlies the rated von 2,5 A. The load has to be decreased.</li> </ul>
Exceeding of maximum load limit/ short circuit	LED flashes red	<ul style="list-style-type: none"> <li>• By exceeding of maximum load limit / short circuit at the secondary side: The device disconnects the secondary circuit.</li> <li>• The device tries to switch back on the secondary circuit automatically. If the defect is repaired, the device switches back on.</li> </ul>

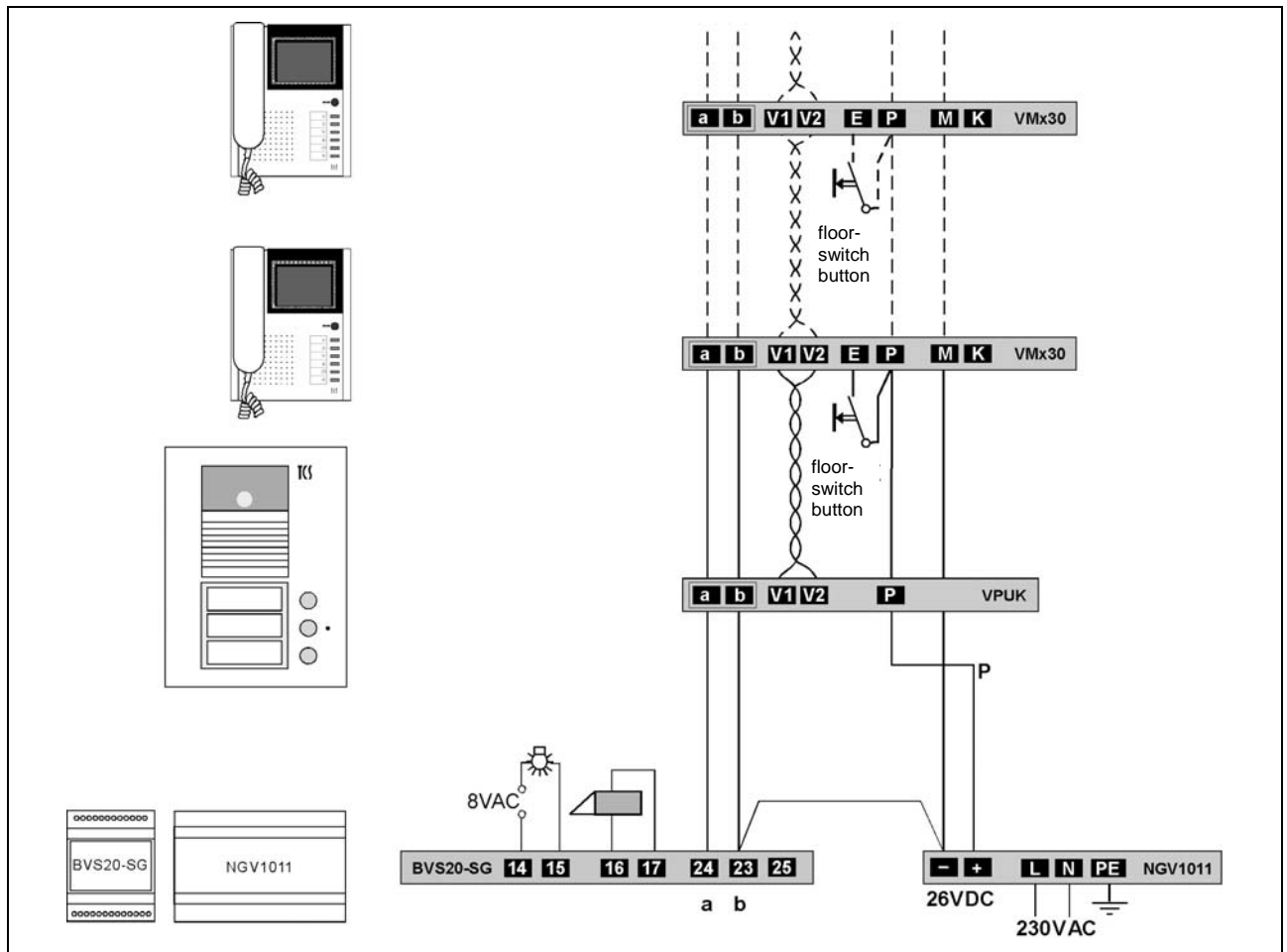
## Cable connection

### Connection

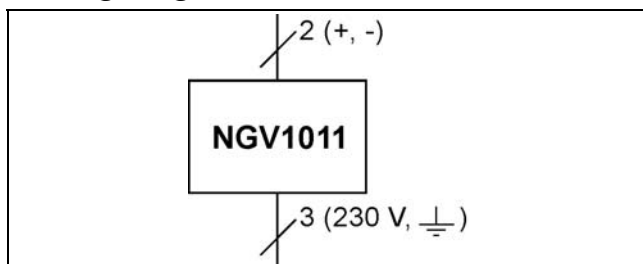
Primary side	recommended cable cross section: 1,5 mm <sup>2</sup> .
Maximum admissible continuous current	2,5 A
Connectable at terminal 29 (+):	P-wire to front-door stations and bell button extension and other components, witch are supplied via the P-wire.
Terminal 31 (-)	Connect to b-wire!

**!** Connect the protection earth to terminal 9 (PE)!

### Wiring example



### Wiring diagram



#### Attention!

Don't connect terminal 29 (+) on NGV1011 with terminal 25 (P) on the power supply and control unit.

## Service

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