

## PCD7.L500 power supply unit 230VAC – 24VDC

### Description

The RIO module PCD7.L500 is a power supply unit for using with every RAIL/SAFE functional modules that are fed by this unit in a room on short distance. The PCD7.L500 offers regulated 24VDC voltage with 12W output power.

**Only ONE power supply unit is permitted for each supplystring. It is not allowed to use more than one module in parallel.**

The 24VDC output voltage is only connectable at the right side with using the front-end connection-jumper or direct from the module screw-terminals.

The RS485 S-Bus network is connectable on both sides of the module.

### Technical Data

#### Input:

Primary-Power supply: 110-240VAC, 50 / 60Hz  
Fuse protection internal, T 1A / 250V / soldered fuse

#### Output:

Secondary power output: 24VDC  
Power: 12 Watt  
Output current max: 500mA  
Start-up characteristic: for max. 7 RIO modules  
Delivery precision: +/- 5%

#### Device protection:

Norm EN 60950  
Output safety voltage (SELV) EN 60950  
Protection class class 2  
Leakage current < 0.25mA  
(50 / 60 Hz netfrequency and U ON-max.)

#### EMV

Interference noise CE-conform  
EN 61000-6-3:2001  
EN 61000-6-4:2001  
EN 55011:1998 +  
A1:1999 classe B  
Interference proof EN 61000-6-2:2001

#### Working data

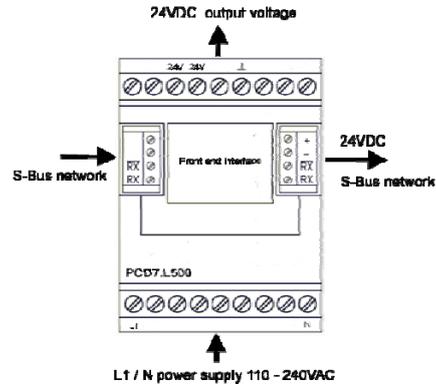
Temperature working range 0°C to +45°C  
Storage temperature range -20°C to +70°C

#### Connecting:

Primary power supply By screw terminals  
Secondary power output Screw terminals / Plug-type connector (right side)  
RS-485 network Plug-type connector right- and left-side

#### Housing

Protection class DIN 40050 Housing IP50 / Terminals IP20  
Humidity class F (DIN 40040)  
Screw-terminals 2,5mm<sup>2</sup>  
Plug-in terminals 1,5mm<sup>2</sup>  
Weight ca. 100g  
Housing dimensions BxHxT 50x70x74mm  
Joinable without space



#### Mounting and commissioning to be conform with current regulations:

1. Power-off the installation
2. Place module onto the place of destination
3. Cable with max. single wire 1.5mm<sup>2</sup> into the unit. With consideration of the protection class.
4. Connect the wires into the terminals

Connect supply voltage and field bus with the Plug-type connector or connection-bridge.

#### Caution!!

Do not exchange the bus and supply terminals.

#### Front-side connections

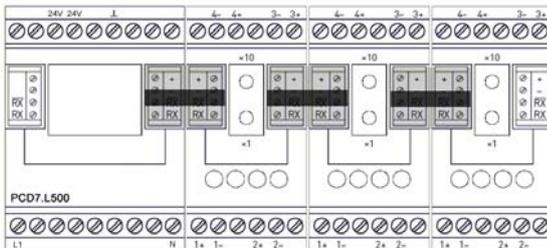
##### Left-side:

**ONLY S-BUS CONNECTION POSSIBLE**

##### Right side:

**Power supply 24VDC and S-Bus connection possible.**

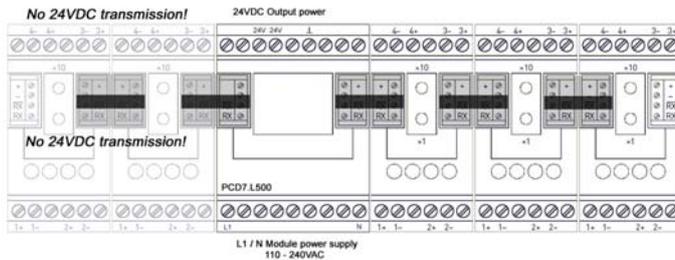
#### Connection possibility 1:



#### Front-end connection PCD7.L500

- **Right sided front side plug connection** of the PCD7.L500 for supply and bus-network of the subsequent modules (typical connector: Handy-jumper)
- **Left side plug connection** of the PCD7.L500 only for the bus-network (typical connector: Plug-type screw-connector)

#### Connection possibility 2:



#### Front-end connection PCD7.L500

- **Right sided front side plug connection** of the PCD7.L500 for supply and bus-network of the subsequent modules (typical connector: Handy-jumper)
- **Left side plug connection** of the PCD7.L500 **only for the bus-network by the Handy-jumper. No power supply connection will be established.**
- No function with more than one PCD7.L500 in parallel allowed!