

PCD7.L500 power supply unit 230 VAC – 24 VDC

Description

The RIO module PCD7.L500 is a power supply unit for using with every RAIL/SAFE functional modules. The PCD7.L500 offers regulated 24 VDC voltage with 16 W output power. **Only ONE power supply unit is permitted for each supplyring. It is not allowed to use more than one module in parallel.** The 24 VDC output voltage is only connectable at the right side with using the front-end connection-jumper or direct from the module screw-terminals. The RS-485 S-Bus network is connectable on both sides of the module.

Technical Data

Input:

Primary-Power supply: 110...240 VAC, 47...63 Hz
Fuse protection internal, T1AL / 250V soldered fuse

Output:

Secondary power output: +24 VDC (SELV)
Power: 16 Watt
Output current max: 700 mA
Start-up characteristic: for max. 21 RIO modules
Delivery precision: ± 3% (Tu = 20 °C)

Device protection:

Norm EN 60950
Output safety voltage (SELV) EN 60950
Protection class class 2
Power failure bridging > 40 ms at 230 VAC and full load

EMV

Interference noise CE-conform
EN 61000-6-3:2001
EN 61000-6-4:2001
Interference proof EN 61000-6-1:2001
EN 61000-6-2:2001

Working data

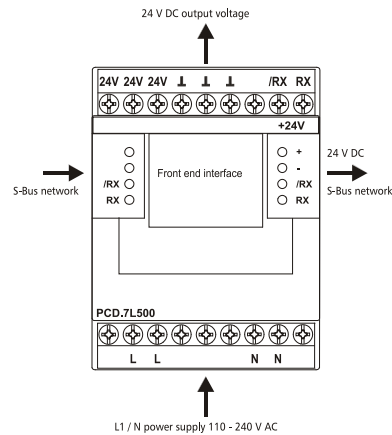
Temperature working range -10 °C to +55 °C
Storage temperature range -25 °C to +85 °C
Humidity 5 % ... 95 % (non-condensing)

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 IP40 / Terminals IP20
Humidity class F (DIN 40040)
Screw-terminals 2,5 mm²
Plug-in terminals 1,0 mm²
Mounting position any
Weight ca. 104 g
Housing dimensions B x H x T, 50 x 70 x 65 mm
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 1.0mm² 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!!

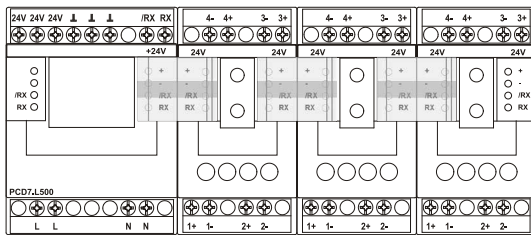
Do not exchange the bus and supply terminals.

Front-side connections

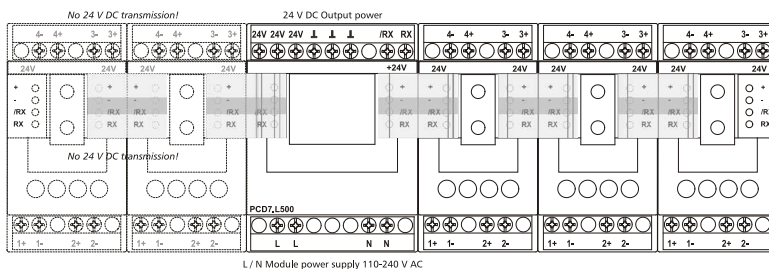
Left-side:
ONLY S-BUS CONNECTION POSSIBLE

Right side:
Power supply 24 VDC and S-Bus connection possible.

Connection possibility 1:



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 (typical connector: Plug-type screw-connector)

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!

See documentation 26-339 ENG