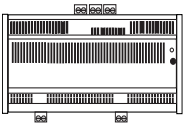


**Connections, displays and operating elements**

**LON Power supply LPS133**

Operating instructions

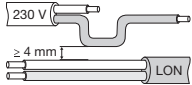


Art. no. MTN884019

**For your safety**

**⚠ DANGER**  
**Risk of fatal injury from electrical current.**  
 All work on the device should only be carried out by trained and skilled electricians. Observe the country-specific regulations, as well as the valid LON® guidelines.

**⚠ CAUTION**  
**Risk of fatal injury from electrical current. The device could become damaged.**  
 Safety clearance must be guaranteed in accordance with IEC 60664-1. There must be at least 4 mm between the individual cores of the 230 V supply cable and the LON cable.



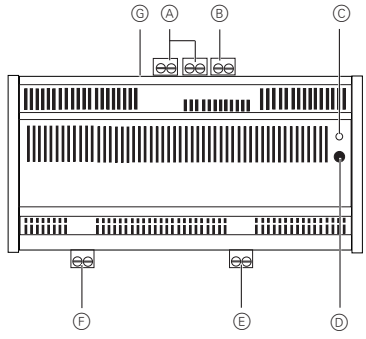
**Getting to know the power supply**

The LON power supply LPS 133 (referred to in the following as the **power supply**) provides the power for a bus device node with Link Power Transceivers (LPTs) which is connected to a network segment.

The power supply is short circuit and overload-proof on the output side, and has a voltage and current limiter. Excessive output current, overloads and short-circuits are indicated by a flashing status green LED (Power).

For the connected network, an adjustable termination resistance is integrated for line structure or networks in free topology. This can be adjusted using the DIP switch. The DIP switch can also be used to deactivate termination. The power supply can be reset using the Reset button on the front panel. The green LED (Power) indicates that the power supply is ready for operation.

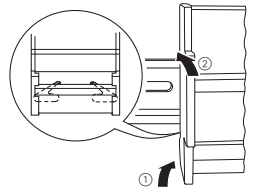
The power supply has an integrated fuse. It is to be installed on a TH35 DIN rail according to DIN EN 60175.



- Ⓐ Connection: LON channel clamps (connected together internally)
- Ⓑ Relay contact: Monitoring the output voltage
- Ⓒ Green Status LED: Power
- Ⓓ Push-button: Reset
- Ⓔ Functional earth connector
- Ⓕ Connection: Supply voltage AC 120/230 V
- Ⓖ DIP switch for network termination

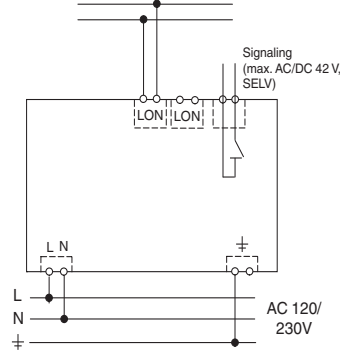
**Mounting the power supply**

- ① Place the power supply onto the DIN rail.



**⚠ WARNING**  
**Risk of fatal injury from electrical current. The device could become damaged.**  
 If there are any 230 V cables in the vicinity, be sure to maintain the distances between them specified in the applicable standards and regulations.

- ② Connect the LON.
- ③ If needed, connect the signalling contact.



**i** The potential free signal contact may only be used to generate a signaling out of the output state. No load must be connected to this potential free signaling contact.

- ④ Connect the mains voltage AC 120/230 V.  
 The green Status LED lights up when the power supply is ready for operation.

**i** Make sure that the functional earth is always connected. It is not considered as a protection for users!

**Operating the power supply**

**DIP switch settings for termination**

The DIP switch is used to select the load resistance according to the selected topology.

Switch 1	Switch 2	Switch 3	Switch 4	
Off	Off	Off	Off	No termination
On	On	Off	Off	Free topology (55 ohms)
Off	Off	On	Off	Line topology (110 ohms)

**i** All other positions are prohibited!

**Resetting**

- ① Press the **[Reset]** push-button for longer than 2 s. This interrupts the output voltage. When push-button is pressed: green status LED is flashing. After release: LED stops flashing and doesn't lit.
- ② Press the **[Reset]** push-button again for longer than 2 s: green status LED will start flashing. After release: LED lights up. The network segment is supplied with Link Power voltage again.

**Status LED**

- **On:** bus power available
- **Off:** no bus power available
- **Flashes:**  
 2x: device overload or short-circuit (retry of reset)  
 3x: device overheated  
 Fast flashing: Reset button was pressed

**Technical data**

Supply voltage:	AC 120 V/60 Hz AC 230 V/50 Hz
Fuse:	3,15 AT, 230 V
Network interface	
Output voltage:	DC 40.6 - 42.4 V
Output current:	1.3 A (short circuit and overload-proof) at 230 V 1 A (short circuit and overload-proof) at 120 V
Monitoring contact output	
Relay contact:	Normally closed
Maximum operating voltage of relay contact:	AC/DC 42 V (SELV)
Operating elements:	Reset push-button and DIP switch
Display elements:	Green LED (POWER)
Ambient temperature	
Operation:	+5 °C to +40 °C
Environment:	The device is designed for use at elevations up to 2000 m above sea level (MSL)
Max. humidity	93 % relative humidity, no moisture condensation
Connections	
Inputs:	Plug-in screw terminals up to 1.5 mm <sup>2</sup>
Per LON channel:	Plug-in screw terminals, 2 pole, up to 1.5 mm <sup>2</sup>
Monitoring contact output:	Plug-in screw terminals up to 1.5 mm <sup>2</sup>
Type of protection:	IP 20
Dimensions	90 x 180 x 65 mm (HxWxD)
Device width:	10 TE
EC guidelines:	Low voltage guideline 2006/95/EEC EMC guideline 2004/108/EEC

## **Schneider Electric Industries SAS**

If you have technical questions, please contact the Customer Care Center in your country.

[www.schneider-electric.com](http://www.schneider-electric.com)

This product must be installed, connected and used in compliance with prevailing standards and/or installation regulations. As standards, specifications and designs develop from time to time, always ask for confirmation of the information given in this publication.