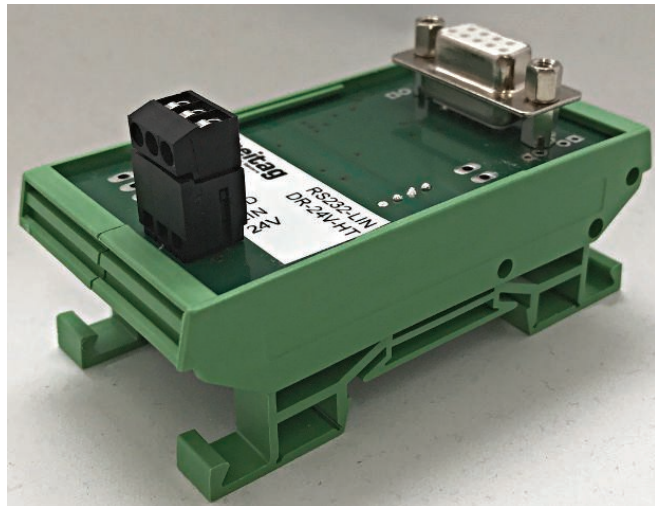


## 1 General

The RS232-LIN-DR-24V-HT Converter can be used to connect a LIN Bus to a PC or SPS serial port. The RS232-LIN Converter provides only physical conversion but no protocol conversion. So it works for all LIN Bus rates and protocols.

With the appropriate tools the LIN bus can be monitored with the PC, or the PC can simulate the master node or generate test messages for testing slave nodes.

This converter is equipped with an transceiver appropriate for 24V vehicle power systems and fits an extended temperature range.



- 9-pin DSUB-Plug (female) to connect to PC serial port
- 3 pin Plug with screw terminals as LIN connector
- Power supply via LIN connection. This means no separate power supply needed.
- Low Cost and service friendly assembly with DIN Rail mounting.

## 2 Connectors and Pin Out

### 2.1 DSUB RS232 Connector

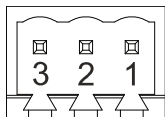
The 9pin DSUB connector is to be connected to the PC COM interface with a 1:1 (straight) cable

### 2.2 LIN Connector

Connector Type RIA Series 183 3-pin (Order Number 31188103).

Needed Plug Type: RIA Series 169 3-pin (Order Number 31169103). One Plug is shipped with each converter.

Pin #	1	2	3
Connect to	Supply plus 7..30V DC	LIN (Data)	GND



View from outside into male socket

## 3 Technical Data

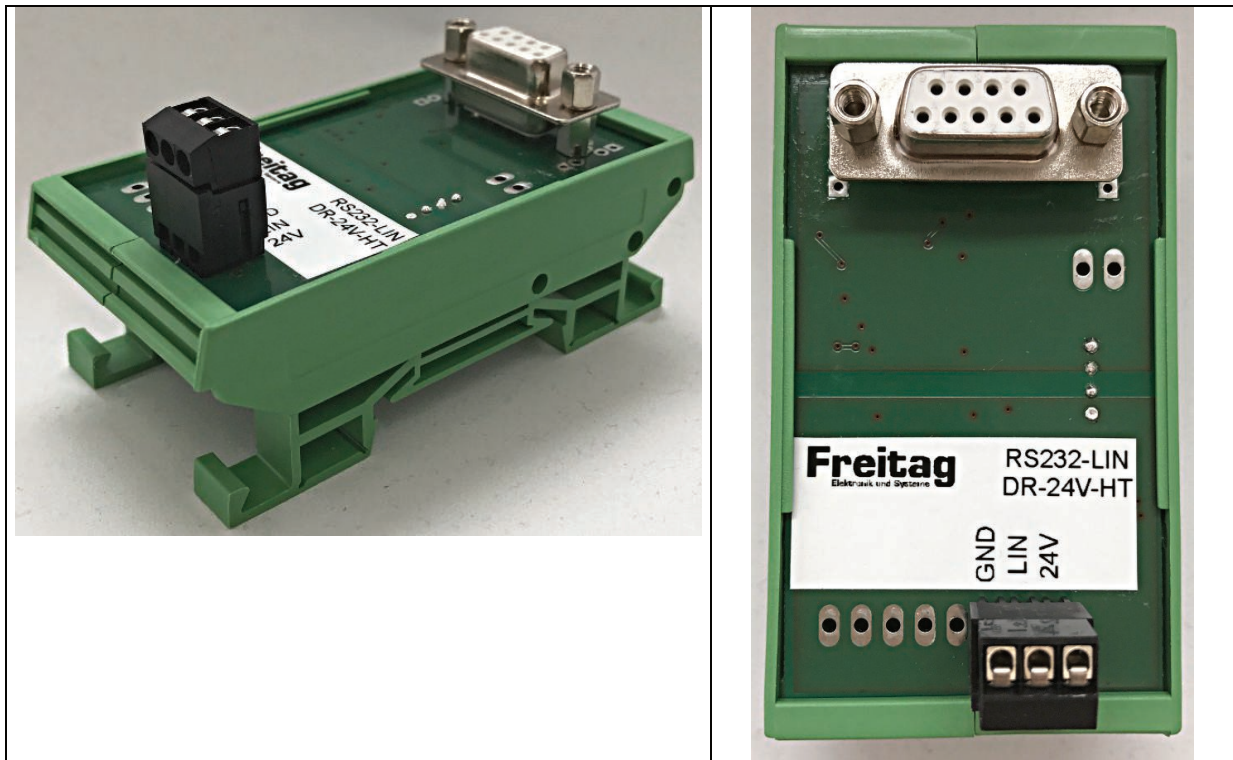
Power Supply Voltage	7..30V DC	
Max. Power Supply Current	40mA	At 14,5V DC Supply Voltage
Measures	83 x 45 x 45mm	(Complete device with plugged Screw terminals)
Weight	Ca. 42g	Including Plug
Working Temperature Range	-25°C..70°C	
Rated wiring LIN Plug	0,08 - 1 mm <sup>2</sup>	Stranded Wire
Order Number	RS232-LIN-24V-HT	

## 4 Package Content

- 1 Piece Converter RS232-LIN-DR-24V-HT
- 1 Piece Plug with screw terminals (RIA 169, 3 pin) for LIN
- 1 Piece 1:1-RS232-Cabel 9pin (male-female) for RS232 connection to PC (1,8m long)

## 5 Contact

If you have questions about the product or application, please feel free to contact us.  
We are also grateful for hints regarding errors or ambiguous phrases in this document.



Dipl. Ing. J. Freitag Elektronik u. Systeme  
Sudbrackstraße 38  
D- 33611 Bielefeld – Germany  
Tel. +49 (521) 2701093

**Freitag**  
Elektronik und Systeme

Fax +49 (521) 2701094  
Email: [info@freitag-elektronik.de](mailto:info@freitag-elektronik.de)  
[www.freitag-elektronik.de](http://www.freitag-elektronik.de)