PSM-ME-RS232/RS485-P



Interface converter RS-232 for RS-485 2/4-wire or RS-422

Data sheet
100274_en_10

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1 Description

The interface converter **PSM-ME-RS232/RS485-P** converts RS-232 interface signals bidirectionally to the RS-485 2/4-wire and RS-422 standard.

The interface converter is snapped onto standard EN DIN rails in the control cabinet and supplied with 24 V DC or AC.

You can use the device in all common bus systems with UART/NRZ data format and character length of 10/11 bits.

The RS-232 connection is established via D-SUB 9, the RS-422/RS-485 field connection is established using COMBICON plug-in screw terminal blocks.

Features

- RS-422 4-wire for point-to-point operation
- RS-485 2-wire operation, half duplex
- RS-485 4-wire operation, full duplex
- Automatic transmit/receive changeover
- Transmission speed 1.2 kbps... 115.2 kbps
- Integrated data indicator for dynamic indication of transmit and receive data
- High-quality 3-way isolation between power supply, V.24 (RS-232), and RS-422/485 for reliable decoupling of the potentials with 1.5 kV
- Integrated surge protection with transient discharge to the DIN rail
- Shipbuilding approval in accordance with DNV GL

Observe these notes

WARNING: Explosion hazard when used in potentially explosive areas

The device is a category 3 item of electrical equipment. Follow the instructions provided here during installation and observe the safety notes.

Make sure you always use the latest documentation.
It can be downloaded at: phoenixcontact.com/product/2744416

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3 Ordering data

Description	Type	Item no.	Pcs./Pkt.
Interface converter, for converting RS-232 (V.24) to RS-422 (V.11) and RS-485, with electrical isolation, 2 channels, rail-mountable	PSM-ME-RS232/RS485-P	2744416	1

Accessories	Type	Item no.	Pcs./Pkt.
RS-232 cable, 9-pos. D-SUB socket on 9-pos. D-SUB socket, 9-wire, 1:1	PSM-KA9SUB9/BB/2METER	2799474	1
Shield connection clamp for terminal points starting from 2.5 mm^2	ME-SAS	2853899	10
Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip	SZF 1-0,6X3,5	1204517	10
Active termination resistor for PROFIBUS and RS-485 bus systems, redundant power supply, routing of the supply voltage via DIN rail connector, electrical isolation, switchable termination, integrated programming interface	PSI-TERMINATOR-PB-TBUS	2702636	1
D-SUB connector, 9-pos. socket, one 35° cable outlet, universal type for all systems, pin assignment: 1, 2, 3, 4, 5, 6, 7, 8, 9 to screw connection terminal block	SUBCON 9/F-SH	2761499	1

4 Technical data

Supply	
Supply voltage range	19.2 V AC/DC ... 28.8 V AC/DC (via pluggable COMBICON screw terminal block)
Nominal supply voltage	24 V AC/DC ±20 %
Typical current consumption	25 mA (24 V DC)
Electrical isolation	VCC // V.24 (RS-232) // RS-485
Test voltage data interface/power supply	1.5 kV AC
Tightening torque	0.56 Nm ... 0.79 Nm
Stripping length	7.00 mm
Conductor cross-section	
flexible	0.2 mm^2 ... 2.5 mm^2
flexible AWG	24 ... 12
rigid	0.2 mm^2 ... 2.5 mm^2

V.24 (RS-232) interface in acc. with ITU-T V.28, EIA/TIA-232, DIN 66259-1	
Transmission channels	2 (1/1), RxD, TxD, full duplex
Connection method	D-SUB 9 plug
Conductor cross-section	
flexible	0.2 mm² ... 2.5 mm²
flexible AWG	24 ... 12
rigid	0.2 mm² ... 2.5 mm²
Serial transmission speed	1.2; 2.4; 4.8; 7.2; 9.6; 19.2; 31.25; 38.4; 57.6; 75; 93.75; 115.2 kbps
Transmission length	15 m (shielded twisted pair)
Protocols supported	transparent protocol
Pin assignment	DTE/DCE switchover via switch

RS-422 interface in acc. with ITU-T V.11, EIA/TIA-422, DIN 66348-1	
Connection method	Pluggable screw connection
Stripping length	7 mm
Conductor cross-section	
flexible	0.2 mm² ... 2.5 mm²
flexible AWG	24 ... 13
Tightening torque	0.5 Nm ... 0.6 Nm (Shield clamp)
Termination resistor	390 Ω - 150 Ω - 390 Ω
Serial transmission speed	1.2; 2.4; 4.8; 9.6; 19.2; 38.4; 57.6; 75; 93.75; 115.2 kbps
Transmission length	1200 m (shielded twisted pair)
Protocols supported	transparent protocol

RS-485 interface in acc. with EIA/TIA-485, DIN 66259-1	
Connection method	Pluggable screw connection
Conductor cross-section	
flexible	0.2 mm² ... 2.5 mm²
flexible AWG	24 ... 14
Data direction switching	Automatic control or via RTS/CTS
Termination resistor	390 Ω - 150 Ω - 390 Ω
Serial transmission speed	1.2; 2.4; 4.8; 9.6; 19.2; 38.4; 57.6; 75; 93.75; 115.2 kbps
Transmission length	1200 m (shielded twisted pair)
Protocols supported	transparent protocol

General data	
Degree of protection	IP20
Pollution degree	2
Mounting type	DIN rail mounting
Dimensions (W/H/D)	22.5 mm x 99 mm x 114.5 mm
Material	
Housing	PA 6.6-FR
Color	
Housing	green (6021)
Free fall in accordance with IEC 60068-2-32	1 m
Vibration resistance in accordance with EN 60068-2-6/ IEC 60068-2-6	5g, 10...150 Hz, 2.5 h, in XYZ direction
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	25g, 11 ms period, half-sine shock pulse
Bit distortion	≤ 5 %
Bit delay	≤ 2.5 µs
Noise emission according to	EN 61000-6-4
Noise immunity according to	EN 61000-6-2:2005
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Transmission channels	2 (1/1), RxD, TxD, full duplex

MTTF (mean time to failure)	
SN 29500 standard, temperature 25°C, operating cycle 21%	1654 Years
SN 29500 standard, temperature 40°C, operating cycle 34.25%	746 Years
SN 29500 standard, temperature 40°C, operating cycle 100%	310 Years

Ambient conditions	
Ambient temperature	
Operation	-40 °C ... 70 °C
Storage/transport	-40 °C ... 85 °C
Humidity	
Operation	10 % ... 95 % (non-condensing)
Altitude	≤ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation)

Conformance/Approvals	
CE	CE-compliant
ATEX	Ⓔx II 3 G Ex ec IIC T4 Gc IBExU16ATEXB004 X Please follow the special installation instructions in the documentation!
IECEx	Ex ec IIC T4 Gc IECEx IBE 15.0034X
UL, USA/Canada	508 Recognized Class I, Div. 2, Groups A, B, C, D Class I, Zone 2, AEx nA IIC T4 Class I, Zone 2, Ex nA IIC T4 Gc X
KC approval for South Korea	MSIP-REI-PCK-ME2744416
Corrosive gas test	ISA-S71.04-1985 G3 Harsh Group A
Shipbuilding	DNV GL
Temperature	B
Humidity	A
Vibration	A
EMC	B
Enclosure	Required protection according to the Rules shall be provided upon installation on board

Conformance with EMC Directive 2014/30/EU		
Immunity in accordance with EN 61000-6-2		
Electrostatic discharge	EN 61000-4-2	
	Contact discharge	± 6 kV (Test Level 3)
	Discharge in air	± 8 kV (Test Level 3)
	Comments	Criterion B
Electromagnetic HF field	EN 61000-4-3	
	Frequency range	26 MHz ... 3 GHz (Test Level 3)
	Field intensity	10 V/m
	Comments	Criterion A
Fast transients (burst)	EN 61000-4-4	
	Input	± 2.2 kV (Test Level 3)
	Signal	± 2.2 kV (Test Level 3)
	Comments	Criterion B
Surge current loads (surge)	EN 61000-4-5	
	Input	± 0.5 kV (DC supply)
	Signal	± 1 kV (Data line, asymmetrical)
	Comments	Criterion B
Conducted interference	EN 61000-4-6	
	Frequency range	0.15 MHz ... 80 MHz
	Voltage	10 V
	Comments	Criterion A

Criterion A	Normal operating behavior within the specified limits.
Criterion B	Temporary impairment to operational behavior that is corrected by the device itself.

Emitted interference in acc. with EN 61000-6-4	
Interference emission	EN 55011 Class A, industrial applications

5 Safety notes

5.1 Installation notes

WARNING:
Observe the following safety notes when using the device.

- The category 3 product is designed for installation in zone 2 potentially explosive areas. It satisfies the requirements of the following standards:
  – EN/IEC 60079-0, EN/IEC 60079-7
  – Comprehensive details are to be found in the EU Declaration of Conformity which is enclosed and also available on our website in the latest version.
- Installation, operation, and maintenance may only be carried out by qualified electricians. Follow the installation instructions as described.
- When installing and operating the device, the applicable regulations and safety directives (including national safety directives), as well as general technical regulations, must be observed. The safety-relevant data is listed in this document.
- Observe the specified conditions for use in potentially explosive areas! Also observe the requirements of EN/IEC 60079-14.
- The product must not be opened or modified apart from the configuration of the DIP switches. Do not repair the product yourself; replace it with an equivalent product. Repairs may only be carried out by the manufacturer. The manufacturer is not liable for damage resulting from failure to comply.
- Do not subject the product to mechanical and/or thermal stress that exceeds the specified limits.
- The product must be stopped and immediately removed from the Ex area if it is damaged, has been subjected to an impermissible load, stored incorrectly, or if it malfunctions.
- The device is designed exclusively for operation with SELV/PELV from a Class ES1 “electrical energy source” in accordance with EN/IEC 62368-1 and VDE 0868-1. The device may only be connected to devices that meet the requirements of class ES1 in accordance with EN/IEC 62368-1.

5.2 Installation in Zone 2

WARNING: Explosion hazard when used in potentially explosive areas
Please make sure that the following notes and instructions are observed.

- Use in potentially explosive areas is not permitted in China.
- Install the device in such a way that a degree of protection of at least IP54 is achieved in accordance with EN/IEC 60529. To this end, a suitable, approved housing must be used, which is based on a type of protection in accordance with EN/IEC 60079-0, Section 1.
- Only devices that are designed for operation in Ex Zone 2 and the conditions at the installation location may be connected to the circuits in Zone 2.
- In potentially explosive areas, only open the product and connect and disconnect cables and plug-in connections (e.g., connector, SD card, DIN rail connector) when the power is disconnected.
- For safe operation, lockable plug-in connections (e.g., connector, SD card, DIN rail connector, etc.) must be fully inserted and have a functional interlock (e.g., locking clip, screw connection, etc.).
- Insert the interlock. Repair any damaged plug-in connections immediately.
- Only connect one cable per terminal point.
- Use the device in an environment that does not exceed pollution degree 2 in accordance with EN/IEC 60664-1.
- Use transient protection so that short-term surge voltages do not exceed 119 V.
- The switches of the device that can be accessed may only be actuated when the power supply to the device is disconnected or when it has been ensured that there is no potentially explosive atmosphere present.
- The DIN rail must be connected to protective ground.
- The product is not designed for use in potentially dust-explosive atmospheres.

5.3 UL notes

WARNING: Explosion hazard when used in potentially explosive areas
Please make sure that the following notes and instructions are observed.

PROCESS CONTROL EQUIPMENT FOR HAZARDOUS LOCATIONS 31ZN

A) All wiring of these devices must be in accordance with the national electric code article 501.4(B) for Class 1, Division 2.
B) Product must be installed in Class I, Zone 2 certified at least an IP54 enclosure.
C) Product must be used in no more than a pollution degree 2 environment as defined by IEC 60664-1
D) Provisions must be made to provide transient protection to the product so that voltage levels do not exceed 40% of the rated voltage at the power supply terminals.

Wire Range: 30-12 AWG,
Torque: 5-7 Lbs-Ins
Supply voltage range 24 V DC ±20% ⎓ 85 mA

6 Transport and unpacking

- Check the delivery for visible damage caused by transportation.
- Submit claims for any transport damage immediately. Inform Phoenix Contact or your supplier as well as the shipping company without delay.
- Read the entire packing slip carefully.
- Retain the packing slip.
- Keep the packaging for a possible later transport.

7 Application examples

7.1 RS-232 // RS-485

The RS-485 standard allows more than two devices to communicate with one another. By converting the RS-232 point-to-point interface into the bus-capable RS-485 standard, you can network up to 32 devices via a 2 or 4-wire cable.

Figure 1 Interface adaptation or programming connection

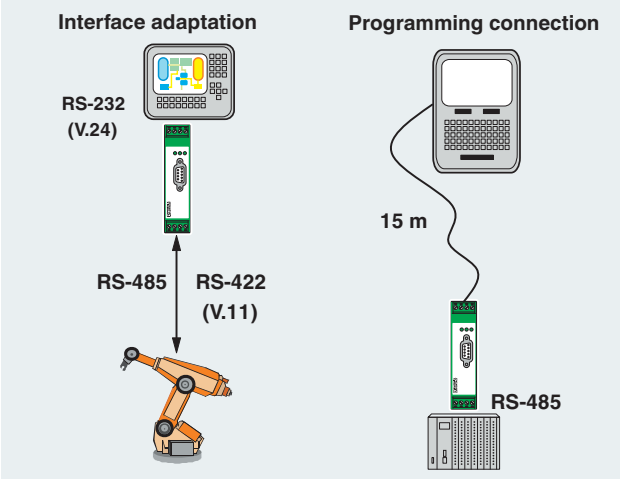


Figure 2 Controller interface

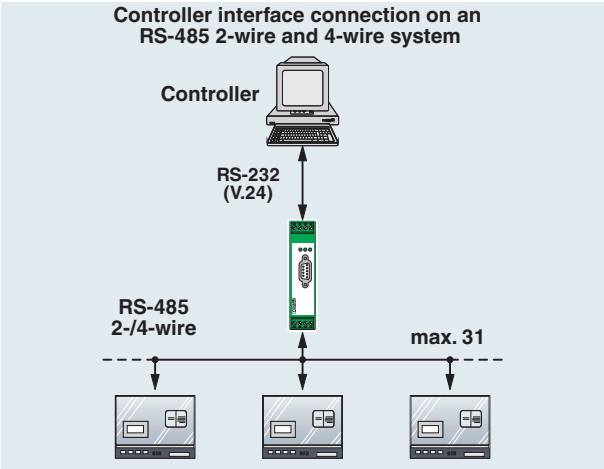
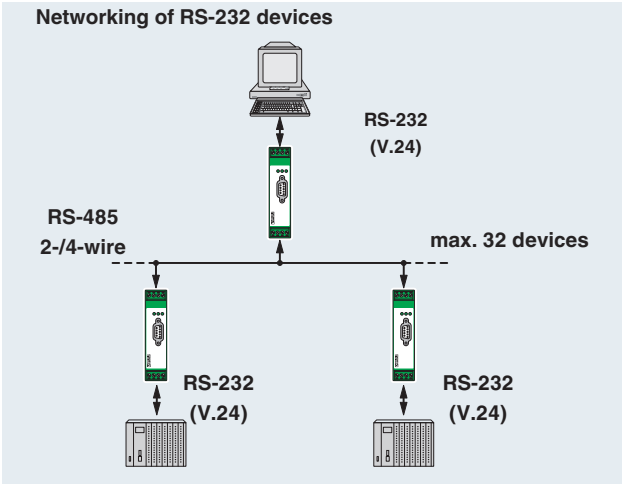


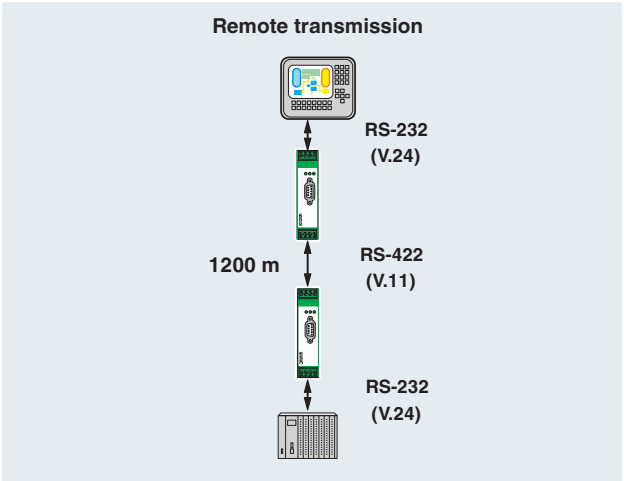
Figure 3 Networking of RS-232 devices



7.2 RS-232 // RS-422

You can use the RS-422 standard to implement rapid, interference-free point-to-point connections in industrial applications. Connections covering a distance of up to 1200 m can be established using a shielded, twisted pair 4-wire cable.

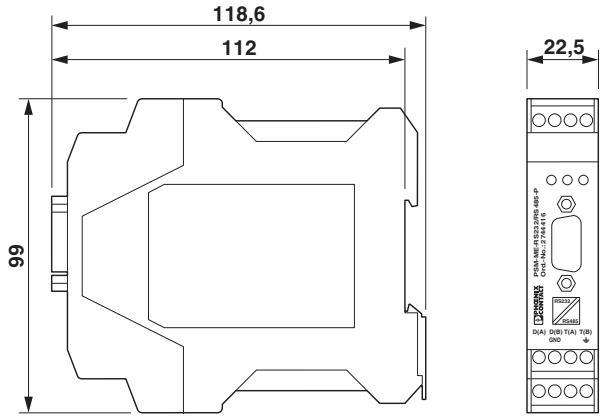
Figure 4 Point-to-point connection between two RS-232 interfaces via RS-422



8 Product description

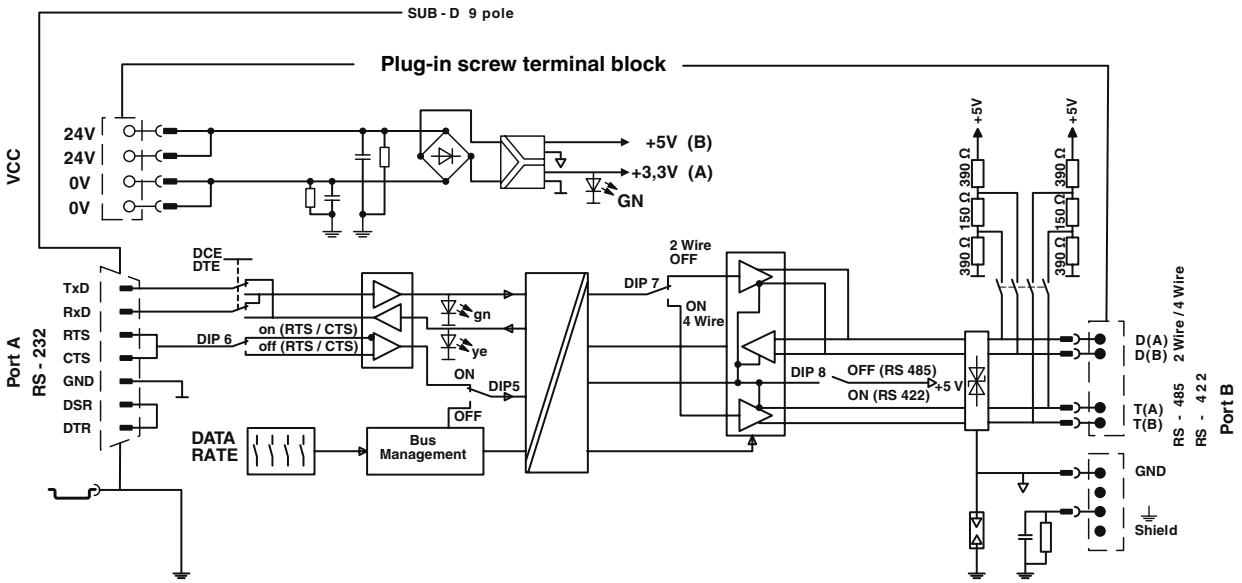
8.1 Dimensions

Figure 5 Housing dimensions



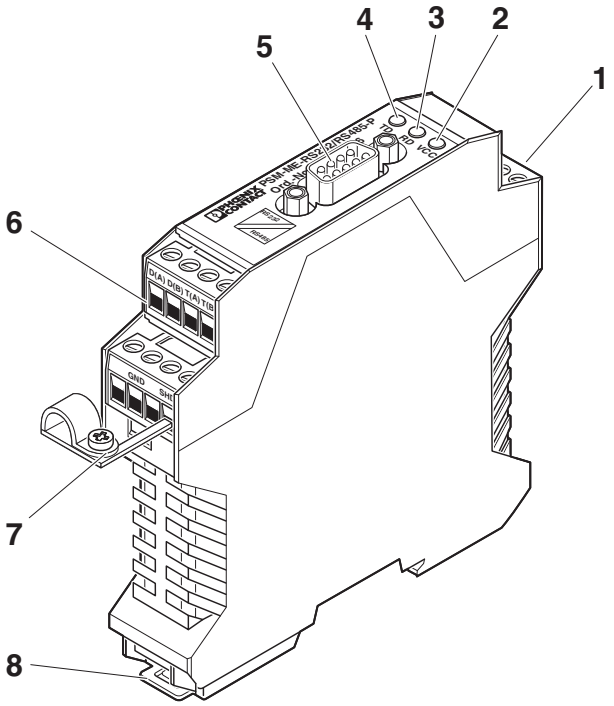
8.2 Basic circuit diagram

Figure 6 Basic circuit diagram



8.3 Function elements

Figure 7 Function elements



COMBICON plug-in screw terminal blocks

1 Power supply (pin 1 + pin 3)

6 RS-485/422 interface

D-SUB pin strip

5 RS-232 interface

Diagnostics and status indicators

2 VCC (green) Supply voltage

3 RD (green) RS-232 Data received

4 TD (yellow) RS-232 Data transmission

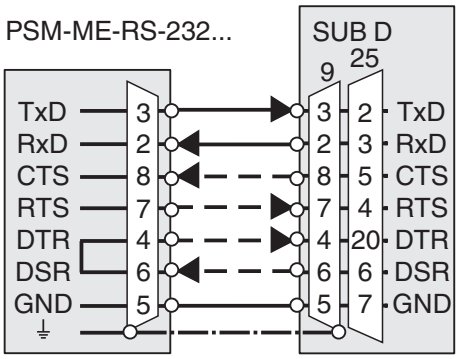
Operating elements

7 Shield connection clamp

8 Locking latch for DIN rail mounting

9 RS-232 interface

Figure 8 RS-232 interface



Pin	D-SUB 9	Designation
3	TxD	Transmit data
2	RxD	Receive data
8	CTS	Clear to send
7	RTS	Request to send
5	GND	Operating ground
4	DTR	DTE ready
6	DSR	Ready to operate
Shield	⏚	Shield connection

- Establish a 1:1 connection between the RS-232 interface of the interface converter and the I/O device.

Note: The minimum configuration only requires one connection for TxD, RxD and GND (software handshake)!

- Plug the 9-pos. D-SUB connector onto the device.

9.1 Configuration

You must open the housing to access the DIP switches and slide switches.

NOTE: Electrostatic discharge!

Electrostatic discharge can damage or destroy components.

– When handling the device, observe the necessary safety precautions against electrostatic discharge (ESD) in accordance with EN 61340-5-1 and IEC 61340-5-1.

- Disengage the housing cover with a screwdriver (A).
- Carefully pull the PCB out of the housing as far as possible.

Figure 9 Opening the housing

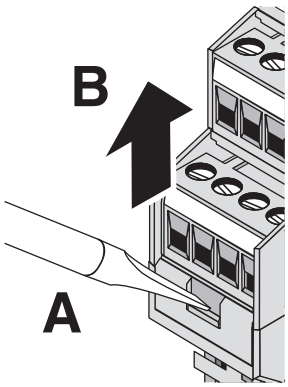
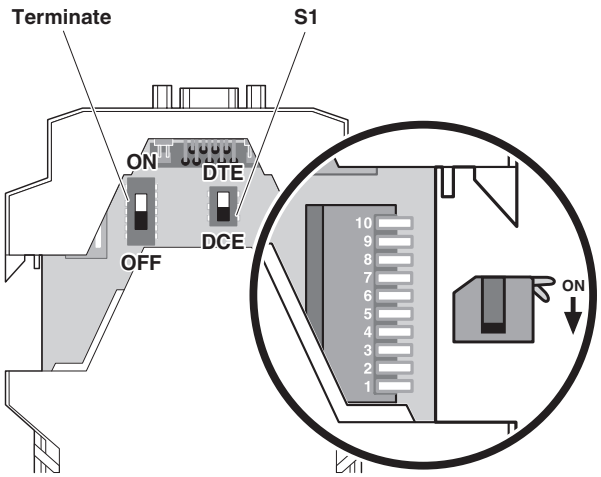


Figure 10 Remove the PCB



9.2 DTE/DCE adjustment

The TxD and RxD can be crossed internally via the S1 DTE/DCE slide switch so that you are able to conveniently adapt to DTE or DCE interfaces.

- When connecting a DTE device (Data Terminal Equipment), slide the S1 switch to the DTE position.
- When connecting a DCE device (Data Communication Equipment) slide the S1 switch to the DCE position.

If you do not know which type of interface is connected, you can determine the right configuration by **trial and error**.

9.3 RTS/CTS support (DIP 5)

During normal operations no control lines (RTS/CTS) are required for data direction switches (DIP5 = OFF). Alternatively, data direction can be controlled via the RTS/CTS lines. If this is required, set DIP switch 5 to ON.

Function			
RTS/CTS	-3 V ... -15 V	=	RS-485 reception mode
	+3 V ... +15 V	=	RS-485 transmission mode

9.4 RTS/CTS inversion (DIP 6)

It is occasionally necessary to invert the control lines. To do so, set DIP switch 6 to "ON".

Function (inverted mode)			
RTS/CTS	+3 V ... +15 V	=	RS-485 reception mode
	-3 V ... -15 V	=	RS-485 transmission mode

Figure 11 DIP switches 5 ... 8

ON ≙ •	DIP 5	6	7	8	9	10
Self-controlled						
RTS/CTS controlled	•					
RTS/CTS standard						
RTS/CTS invers		•				
RS-485 2-wire						
RS-485 4-wire			•			
RS-485						
RS-422				•		

10 Operation as RS-485 2-wire interface

- Set DIP switch 8 to OFF to activate RS-485 operating mode.
- Set DIP switch 7 to OFF to activate 2-wire mode.
- Choose the interface type of the RS-232 interface with the DTE/DCE-slide switch and the operating mode with DIP switches 5 and 6. If you choose self-controlled operating mode (DIP 5= OFF), no RS-232 interface control lines are required.

Figure 12 DIP switches 5 ... 8

ON ≙ •	DIP 5	6	7	8	9	10
Self-controlled						
RTS/CTS controlled	•					
RTS/CTS standard						
RTS/CTS invers		•				
RS-485 2-wire						
RS-485 4-wire			•			
RS-485						
RS-422				•		

- For self-controlled operational mode only (DIP 5 = OFF): set transmission speed using DIP switches 1-4.

ON = •	DIP 1	DIP 2	DIP 3	DIP 4
Data rate [kbps]				
115.2		•		•
93.75		•	•	
75		•	•	•
57.6	•			
38.4	•			•
19.2	•		•	
9.6	•		•	•
4.8	•	•		
2.4*	•	•		•
1.2*	•	•	•	

* Transmission speeds of 1.2 kbps and 2.4 kbps are available as of hardware/firmware (HW/FW) Version 20/400.

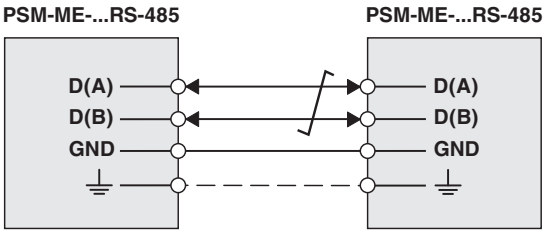
Set all interface converters and bus devices to the same transmission speed.

- Activate the termination resistors, if necessary.
- To couple two RS-485 interfaces connect them using a twisted wire pair. GND connection is recommended but is not absolutely necessary.

NOTE: Interference

Use shielded twisted pair data cables. Connect the cable shielding at both ends of the transmission path.

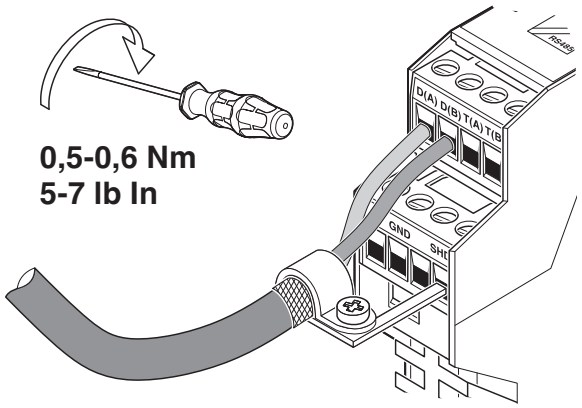
Figure 13 RS-485 2-wire interface



Terminal point	Designation
D(B)	Data line +
D(A)	Data line -
GND	Operating ground
⏚	Shield connection

- For the shield connection, use the provided shield connection clamp.

Figure 14 Install shield connection clamp



11 Operation as RS-485 4-wire interface

- Set DIP switch 8 to OFF to activate RS-485 operating mode.
- Set DIP switch 7 to ON to activate 4-wire mode.
- Choose the interface type of the RS-232 interface with the DTE/DCE-slide switch and the operating mode with DIP switches 5 and 6. If you choose self-controlled operating mode (DIP 5= OFF), no RS-232 interface control lines are required.

Figure 15 DIP switches 5 ... 8

ON ≙ •	DIP 5	6	7	8	9	10
Self-controlled						
RTS/CTS controlled	•					
RTS/CTS standard						
RTS/CTS invers		•				
RS-485 2-wire						
RS-485 4-wire			•			
RS-485						
RS-422				•		

- For self-controlled operational mode only (DIP 5 = OFF): set transmission speed using DIP switches 1-4.

ON = •	DIP 1	DIP 2	DIP 3	DIP 4
Data rate [kbps]				
115.2		•		•
93.75		•	•	
75		•	•	•
57.6	•			
38.4	•			•
19.2	•		•	
9.6	•		•	•
4.8	•	•		
2.4*	•	•		•
1.2*	•	•	•	

* Transmission speeds of 1.2 kbps and 2.4 kbps are available as of hardware/firmware (HW/FW) Version 20/400.

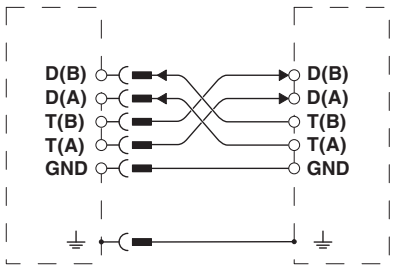
Set all interface converters and bus devices to the same transmission speed.

- Activate the termination resistors, if necessary.
- To couple two RS-485 interfaces connect them using a twisted wire pair. Ensure in connection that the transmission and reception lines are crossed. GND connection is recommended but is not absolutely necessary.

NOTE: Interference

Use shielded twisted pair data cables. Connect the cable shielding at both ends of the transmission path.

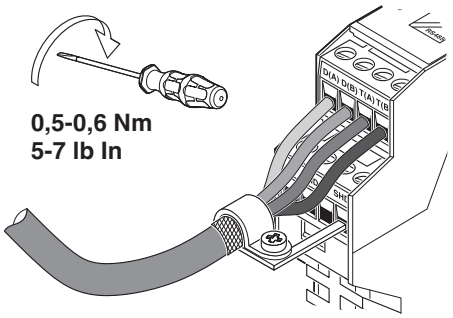
Figure 16 RS-485 4-wire interface



Terminal point	Designation
D(B)	Receive data +
D(A)	Receive data -
T(B)	Transmit data +
T(A)	Transmit data -
GND	Operating ground
⏚	Shield connection

- For the shield connection, use the provided shield connection clamp.

Figure 17 Install shield connection clamp



12 Operation as RS-422 interface

- Set DIP switch 8 to ON to activate RS-422 operating mode.
- Choose the interface type of the RS-232 interface with the DTE/DCE-slide switch and the operating mode with DIP switches 5 and 6. If you choose self-controlled operating mode (DIP 5= OFF), no RS-232 interface control lines are required.

Figure 18 DIP switches 5 ... 8

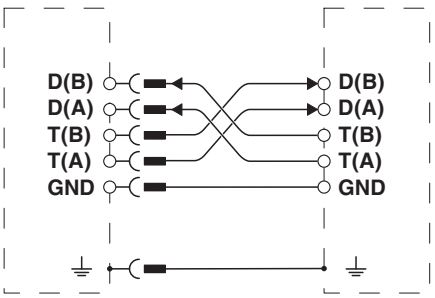
ON ≙ •	DIP 5	6	7	8	9	10
Self-controlled						
RTS/CTS controlled	•					
RTS/CTS standard						
RTS/CTS invers		•				
RS-485 2-wire						
RS-485 4-wire			•			
RS-485						
RS-422				•		

- Activate the termination resistors with slide switch RS-485/RS-422 TERMINATE.
- To couple two RS-422 interfaces, use a twisted wire pair. Ensure that the transmission and reception leads are crossed. GND connection is recommended but not absolutely necessary.

NOTE: Interference

Use shielded twisted pair data cables. Connect the cable shielding at both ends of the transmission path.

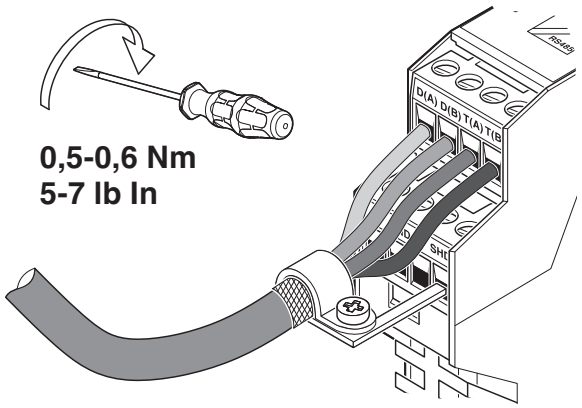
Figure 19 RS-422 interface



Terminal point	Designation
D(B)	Receive data +
D(A)	Receive data -
T(B)	Transmit data +
T(A)	Transmit data -
GND	Operating ground
⏚	Shield connection

- For the shield connection, use the provided shield connection clamp.

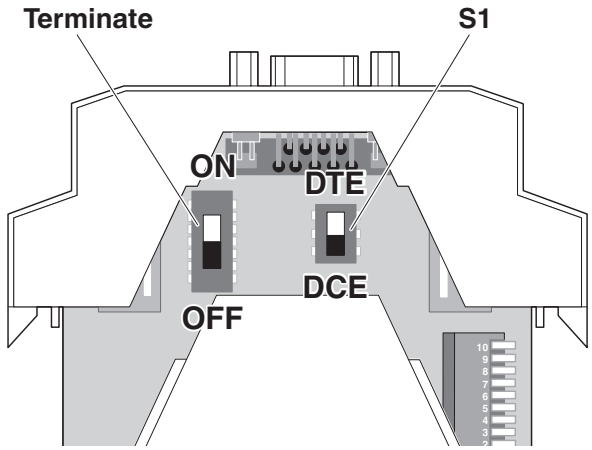
Figure 20 Install shield connection clamp



13 Termination resistor for RS-485/422 interface

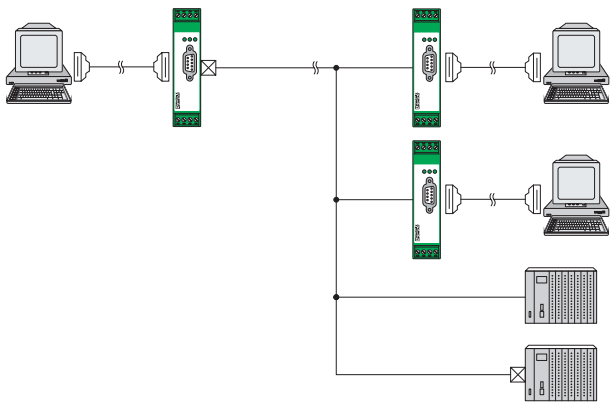
To terminate the bus line the converter incorporates a connectable termination resistor. Activate the termination resistor by setting the RS-485/RS-422 TERMINATE slide switch to ON.

Figure 21 Remove the PCB



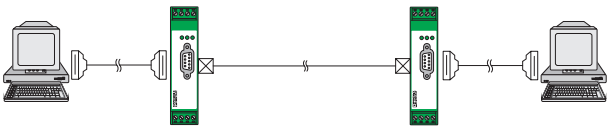
RS-485: Activate the termination resistors at the two furthest ends of the bus.
RS-422: Activate all termination resistors.

Figure 22 Activate termination resistors - RS-485



☒ = Switch on bus terminating resistor

Figure 23 Activate termination resistors - RS-422



☒ = Switch on bus terminating resistor

14 Installation

CAUTION: Electric shock

The device is designed exclusively for operation with SELV/PELV from a Class ES1 “electrical energy source” in accordance with EN/IEC 62368-1 and VDE 0868-1.

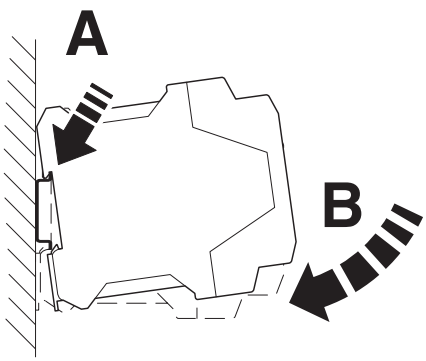
NOTE: Malfunction

Connect the DIN rail to protective earth ground using a grounding terminal block. The device is grounded when it is snapped onto the DIN rail.

The product can be snapped onto all 35 mm DIN rails in accordance with EN/IEC 60715.

14.1 Mounting

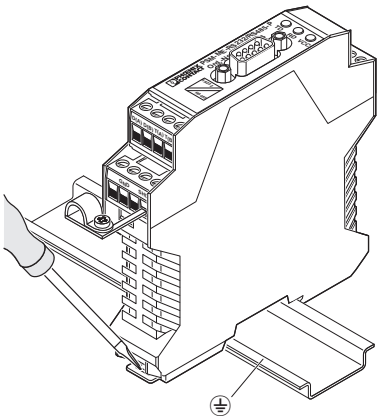
Figure 24 Mounting on a DIN rail



- To avoid contact resistance, only use clean, corrosion-free 35 mm DIN rails according to DIN EN 60715.
- Install an end bracket next to the left-hand device to prevent the devices from slipping.
- Place the device onto the DIN rail from above. Push the device from the front toward the mounting surface until it audibly engages.

14.2 Removal

Figure 25 Removal

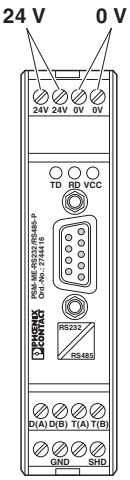


- Push down the locking tab with a screwdriver, needle-nose pliers or similar.
- Slightly pull the bottom edge of the device away from the mounting surface.
- Pull the device away from the DIN rail.

14.3 Connecting the supply voltage

The device is supplied with 24 V DC or AC.

Figure 26 Connecting the supply voltage



- Provide supply voltage to the device via terminal 1 (pin 1 and pin 3).

15 Disposal



The symbol with the crossed-out trash can indicates that this item must be collected and disposed of separately. Phoenix Contact or our service partners will take the item back for free disposal. For information on the available disposal options, visit www.phoenixcontact.com.