

2702636

https://www.phoenixcontact.com/pc/products/2702636

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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

Product Description

PROFIBUS or other RS-485 networks can be actively terminated at the bus end using the PSI-TERMINATOR-PB-TBUS. This ensures safe communication even if the bus device is connected/disconnected during operation. In addition, the connectable termination enables the device to be operated as a service interface at any point in the bus system. For the operation of active programming devices, the required power supply is provided at the alternative D-SUB connection. When several devices are installed in combination, the supply voltage can be conveniently routed through the DIN rail connector.

Your advantages

- · Diagnostic LEDs for voltage and data activity
- · Interference-free bus communication thanks to active termination
- · Compact housing design
- · Fixed programming interface in the network
- · Termination can be connected externally
- · Installation as single device or in combination with other devices
- Extended temperature range of -40 °C ... +70 °C
- · Electrical isolation of power supply and data interface
- Redundant power supply
- Supply voltage routed through a DIN rail connector for use in combination with other devices

Commercial Data

Item number	2702636
Packing unit	1 pc
Minimum order quantity	1 pc
Product Key	DNC141
Catalog Page	Page 424 (C-6-2019)
GTIN	4055626251530
Weight per Piece (including packing)	140.7 g
Weight per Piece (excluding packing)	137.1 g
Customs tariff number	85389091
Country of origin	DE



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Technical Data

Notes

Utilization restriction	
EMC note	EMC: class A product, see manufacturer's declaration in the download area
Utilization restriction	
CCCex note	Use in potentially explosive areas is not permitted in China.
roduct properties	
Product type	Terminal resistor
MTTF	3305 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	1923 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	911 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)
Insulation characteristics	
Overvoltage category	II
Pollution degree	2
lectrical properties	
Electrical isolation	RS-485 // VCC
Maximum power dissipation for nominal condition	0.24 W
Test voltage data interface/power supply	1.5 kV AC (50 Hz, 1 min.)
Supply	
Supply voltage range	18 V DC 30 V DC (via pluggable COMBICON screw terminal block)
Nominal supply voltage	24 V DC (via pluggable COMBICON screw terminal block)
Typical current consumption	10 mA (24 V DC, no load on D-SUB)
	60 mA (24 V DC, current drain at D-SUB of 150 mA)
Max. current consumption	12 mA (18 V DC, no load on D-SUB)
	77 mA (18 V DC, current drain at D-SUB of 150 mA)

Connection data

Status and diagnostic indicators

Supply

Function

Conductor cross section, flexible	0.20 mm² 2.50 mm²
Conductor cross section, rigid	0.20 mm² 2.50 mm²
Conductor cross section, flexible [AWG]	24 12
Tightening torque	0.6 Nm 0.8 Nm

LEDs: US (power supply), ACT (data activity)



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Interfaces

Signal	Modbus
	PROFIBUS
ata: PROFIBUS acc. to IEC 61158, RS-485 2-conductor	
Serial transmission speed	≤ 12 Mbps
Connection method	D-SUB 9, COMBICON
Transmission length	≤ 1200 m (Depends on transmission speed and cable type)
Termination resistor	390 Ω
	220 Ω
	390 Ω (Can be connected)
Conductor cross section flexible max.	1.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section solid min.	0.2 mm ²
Max. AWG conductor cross section, flexible	16
Min. AWG conductor cross section, flexible	24
Single-wire/terminal point, solid AWG max.	16
Single-wire/terminal point, solid AWG min.	24
Output nominal voltage	5 V DC

Dimensions

Dimensional drawing	85
Width	22.5 mm
Height	92 mm
Depth	73 mm

Material specifications

Material	PA 6.6-FR (Housing)
Matchai	1 A 0.0-1 IX (Housing)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C 70 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Altitude	≤ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation)
	≤ 2000 m (Restrictions for ATEX applications)
Permissible humidity (operation)	10 % 95 % (non-condensing)



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CE Certificate CE-compliant ATEX Identification Il 3 G Ex nA IIC T4 Gc X Note Please follow the special installation instructions in the documentation! UL, USA / Canada Identification 508 Listed Corrosive gas test Identification ISA-S71.04-1985 G3 Harsh Group A		
Certificate ATEX Identification DI I 3 G Ex nA IIC T4 Gc X Note Please follow the special installation instructions in the documentation! UL, USA / Canada Identification 508 Listed Corrosive gas test Identification ISA-S71.04-1985 G3 Harsh Group A EMC data Electromagnetic compatibility Conformance with EMC Directive 2014/30/EU Electrostatic discharge Standards/regulations EN 61000-4-2 Electrostatic discharge Contact discharge Contact discharge Discharge in air indirect discharge \$\frac{\fra	Air pressure (operation)	≤ 80 kPa (When used in EX zone 2)
CE Certificate CE-compliant ATEX Identification ID II 3 G Ex nA II C T4 G c X Note Please follow the special installation instructions in the documentation! UI., USA / Canada Identification Sol Listed Corrosive gas test Identification ISA-S71.04-1985 G3 Harsh Group A EMC data Electromagnetic compatibility Conformance with EMC Directive 2014/30/EU Electrostatic discharge Standards/regulations EN 61000-4-2 Electrostatic discharge Contact discharge Contact discharge Contact discharge Lestrostatic discharge Electrostatic discharge Contact discharge Electrostatic discharge Electromagnetic Fleel Electromagnetic Fleel Frequency range Field intensity Comments Electromagnetic HF field Frequency range Field intensity Comments Electromagnetic HF field Frequency range Field intensity Comments En 61000-4-4 Fast transients (burst) Standards/regulations EN 61000-4-4 Fast transients (burst) Input £ 2.2 kV (Test Level 3) Signal £ 2.2 kV (Test Level 3) Signal Comments Criterion B Surge current load (surge)	Approval data	
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Identification □ II 3 G Ex nA II C T4 Gc X Note Please follow the special installation instructions in the documentation! UL, USA / Canada Identification 508 Listed Corrosive gas test Identification ISA-S71.04-1985 G3 Harsh Group A EMC data Electromagnetic compatibility Conformance with EMC Directive 2014/30/EU Electrostatic discharge Standards/regulations EN 61000-4-2 Electrostatic discharge Contact discharge ± 6 kV (Test Level 3) Indirect discharge in air ± 8 kV (Test Level 3) Indirect discharge ± 6 kV Comments Criterion B Electromagnetic HF field Standards/regulations EN 61000-4-3 Electromagnetic HF field Frequency range 80 MHz 3 GHz (Test Level 3) Field intensity 10 V/m Comments Criterion A Fast transients (burst) Standards/regulations EN 61000-4-4 Fast transients (burst) Standards/regulations Criterion B Surge current load (surge)	Certificate	CE-compliant
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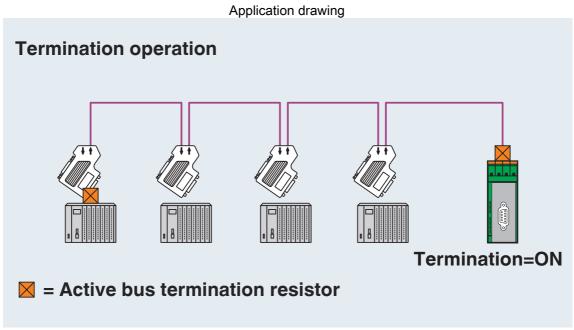
Input	± 0.5 kV (sym. / asym.)
Signal	± 1 kV (Data line, asymmetrical)
Comments	Criterion B
Conducted interference	
Standards/regulations	EN 61000-4-6
Conducted interference	
Frequency range	0.15 MHz 80 MHz
Comments	Criterion A
Voltage	10 V
Emitted interference	
Standards/regulations	EN 55011
Comments	Class A, industrial applications
Criterion A	Normal operating behavior within the specified limits.
Criterion B	Temporary impairment to operational behavior that is corrected by the device itself.
Standards and regulations	
Free from substances that could impair the application of coating	in accordance with VW-AUDI-Seat central standard P-VW 3.10.7 57 65 0
Mounting	
Mounting type	DIN rail mounting



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Drawings

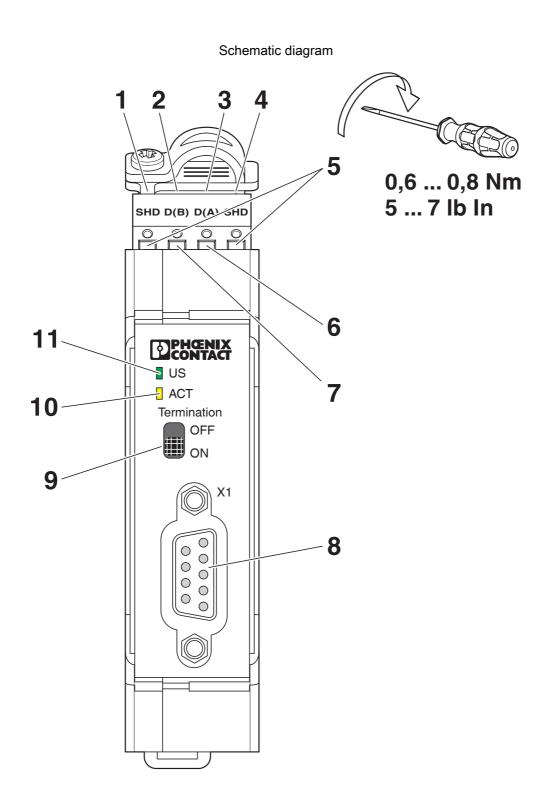


Permanent termination at the end of the (professional) bus system



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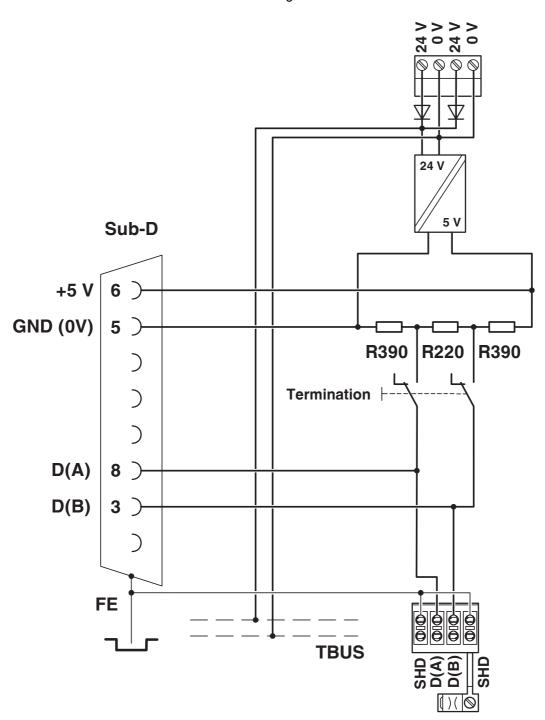
Front view



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Block diagram

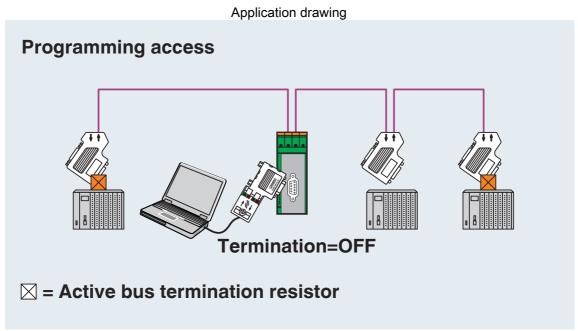


Basic circuit diagram



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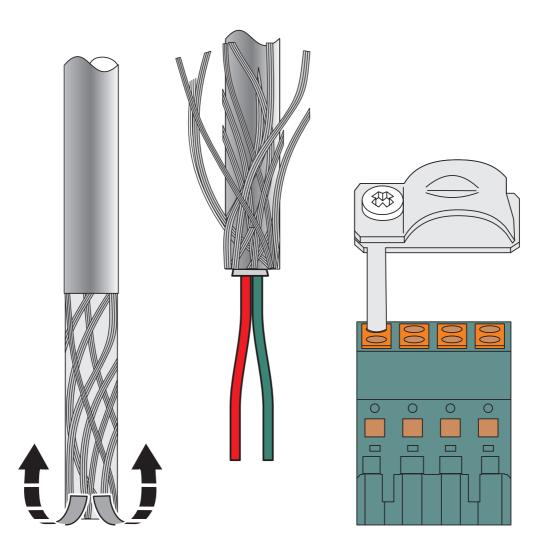
Fixed service interface in (professional) bus system



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Schematic diagram



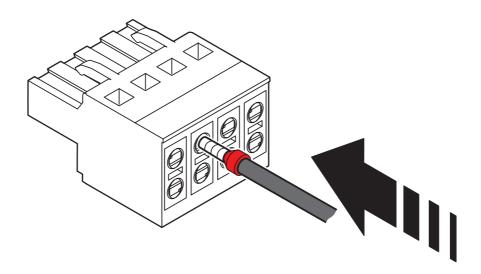
Push the braided shield back



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Schematic diagram



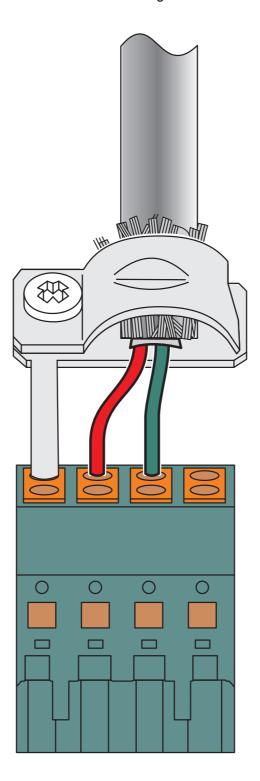
Install signal cable



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Schematic diagram



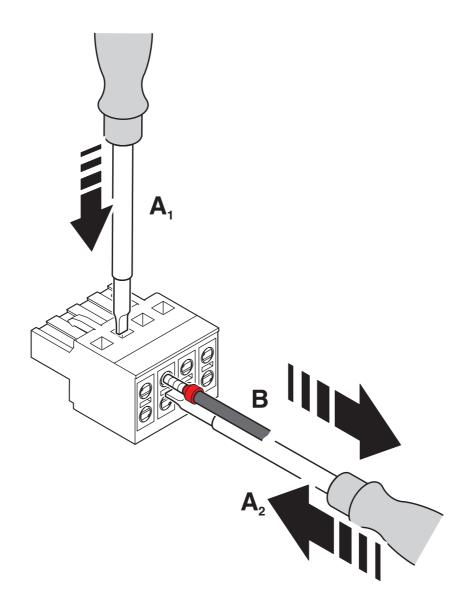
Connecting cables with a shield clamp



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Schematic diagram

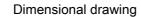


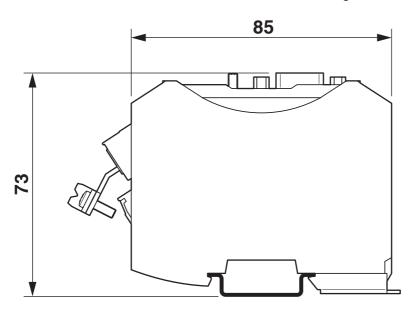
Deinstall signal cable

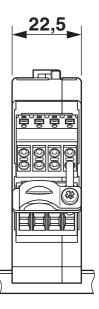


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Compact housing



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Approvals



UL Listed

Approval ID: FILE E 238705



cUL Listed

Approval ID: FILE E 238705



ATEX

Approval ID: PxCIF16ATEX2702636X

cULus Listed



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-9.0	19070403
	ECLASS-10.0.1	19070403
	ECLASS-11.0	19070403
ETIM		
	ETIM 8.0	EC000448
UN	SPSC	

32121600



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Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"



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Accessories

DIN rail bus connectors

DIN rail bus connectors - ME 22,5 TBUS 1,5/ 5-ST-3,81 GN - 2707437 https://www.phoenixcontact.com/pc/products/2707437



DIN rail connector, color: green, nominal current: 8 A (parallel contacts), rated voltage (III/2): 125 V, number of positions: 5, pitch: 3.81 mm, mounting: DIN rail mounting, locking: without, mounting: without, type of packaging: packed in cardboard, Item with gold-plated contacts, bus connectors for connecting with electronics housings, 5 parallel contacts

D-SUB bus connector

D-SUB bus connector - SUBCON-PLUS-PROFIB/90/IDC - 2313672 https://www.phoenixcontact.com/pc/products/2313672



D-SUB connector, 9-pos., male connector, 90° cable entry, bus system: PROFIBUS DP up to 12 Mbps, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; IDC terminal block connection



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D-SUB bus connector

D-SUB bus connector - SUBCON-PLUS-PROFIB/90/PG/IDC - 2313685 https://www.phoenixcontact.com/pc/products/2313685



D-SUB connector, 9-pos., male connector, 90° cable entry, bus system: PROFIBUS DP up to 12 Mbps with PG D-SUB socket for connecting a programming device, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; IDC terminal block connection

D-SUB bus connector

D-SUB bus connector - SUBCON-PLUS-PROFIB/90/SC - 2313698 https://www.phoenixcontact.com/pc/products/2313698



D-SUB connector, 9-pos., male connector, 90° cable entry, bus system: PROFIBUS DP up to 12 Mbps, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; screw connection terminal blocks



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D-SUB bus connector

D-SUB bus connector - SUBCON-PLUS-PROFIB/90/PG/SC - 2313708 https://www.phoenixcontact.com/pc/products/2313708



D-SUB connector, 9-pos., male connector, 90° cable entry, bus system: PROFIBUS DP up to 12 Mbps with PG D-SUB socket for connecting a programming device, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; screw connection terminal blocks

D-SUB bus connector

D-SUB bus connector - SUBCON-PLUS-PROFIB/35/M12 - 2902320 https://www.phoenixcontact.com/pc/products/2902320



D-SUB plug, 9-pos., pin, assignment: 3, 5, 6, 8; two 35° cable entries M12 (B-coded). Bus system: PROFIBUS DP up to 12 Mbps. Termination resistor via separate M12 terminator.



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D-SUB bus connector

D-SUB bus connector - SUBCON-PLUS-PROFIB/90/M12 - 2902318 https://www.phoenixcontact.com/pc/products/2902318



D-SUB plug, 9-pos., pin, assignment: 3, 5, 6, 8; two 90° M12 cable glands (B-coded). Bus system: PROFIBUS DP up to 12 Mbps. Termination resistor via separate M12 terminator.

D-SUB bus connector

D-SUB bus connector - SUBCON-PLUS-PROFIB/90X/M12 - 2902729 https://www.phoenixcontact.com/pc/products/2902729

D-SUB plug, 9-pos., pin, assignment: 3, 5, 6, 8; two 90° cable entries M12 (B-coded). Bus system: PROFIBUS DP up to 12 Mbps. Termination resistor via separate M12 terminator. Long version; S7-compatible.





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Bus system cable

Bus system cable - PSM-CABLE-PROFIB/FC - 2744652 https://www.phoenixcontact.com/pc/products/2744652



By the meter, Bus system cable, PROFIBUS (12 Mbps), shielded, PVC FR VI/PVC, violet, 2-wire (1X2XAWG22/1), color single wire: Red, green, cable length: Free entry (1.0 ... 1000.0 m)

Screwdriver

Screwdriver - SZF 0-0,4X2,5 - 1204504

https://www.phoenixcontact.com/pc/products/1204504



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: $0.4 \times 2.5 \times 75$ mm, 2-component grip, with non-slip grip



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Stripping tool

Stripping tool - PSM-STRIP-FC/PROFIB - 2744623 https://www.phoenixcontact.com/pc/products/2744623

Quick stripping tool for PROFIBUS cable, type Fast Connect



Stripping pliers

Stripping pliers - QUICK WIREFOX 6 - 1204384 https://www.phoenixcontact.com/pc/products/1204384



Stripping tool for cables with PVC insulation, stripping range: 0.08 to 6 mm², wire cutting up to 6 mm² flexible or 4 mm² rigid



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D-SUB bus connector

D-SUB bus connector - SUBCON-PLUS-PROFIB/SC2 - 2708232 https://www.phoenixcontact.com/pc/products/2708232



D-SUB connector, 9-pos., male connector, 35° cable entry, bus system: PROFIBUS DP up to 12 Mbps, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; screw connection terminal blocks

D-SUB bus connector

D-SUB bus connector - SUBCON-PLUS-PROFIB/PG/SC2 - 2708245 https://www.phoenixcontact.com/pc/products/2708245



D-SUB connector, 9-pos., male connector, 35° cable entry, bus system: PROFIBUS DP up to 12 Mbps with PG D-SUB socket for connecting a programming device, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; screw connection terminal blocks



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https://www.phoenixcontact.com/pc/products/2702636

D-SUB bus connector

D-SUB bus connector - SUBCON-PLUS-PROFIB/AX/SC - 2744380 https://www.phoenixcontact.com/pc/products/2744380



D-SUB connector, 9-pos., male connector, axial version with two cable entries, bus system: PROFIBUS DP up to 12 Mbps, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; screw connection terminal blocks

Repeater

Repeater - PSI-REP-PROFIBUS/12MB - 2708863 https://www.phoenixcontact.com/pc/products/2708863



Modular repeater for electrical isolation and range increase for PROFIBUS up to 12 Mbps, 4-way isolation, rail-mountable, supply 24 V DC $\,$



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Repeater

Repeater - PSI-REP-RS485W2 - 2313096

https://www.phoenixcontact.com/pc/products/2313096



Modular repeater for electrical isolation and range increase in RS-485 2-wire bus systems up to 500 kbps, 4-way isolation, rail-mountable, supply 24 V DC

Repeater

Repeater - PSM-ME-RS485/RS485-P - 2744429 https://www.phoenixcontact.com/pc/products/2744429



Repeater, for potential separation and range increase in RS-485 2-wire bus systems, 3-way isolation, rail-mountable $\frac{1}{2}$



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https://www.phoenixcontact.com/pc/products/2702636

Interface converter

Interface converter - PSM-ME-RS232/RS485-P - 2744416 https://www.phoenixcontact.com/pc/products/2744416



Interface converter, for converting RS-232 (V.24) to RS-422 (V.11) and RS-485, with electrical isolation, 2 channels, rail-mountable

Power supply unit

Power supply unit - QUINT4-SYS-PS/1AC/24DC/2.5/SC - 2904614 https://www.phoenixcontact.com/pc/products/2904614



Primary-switched power supply unit, QUINT POWER, Screw connection, DIN rail mounting, input: 1-phase, output: 24 V DC / 2.5 A $\,$



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DIN rail bus connectors

DIN rail bus connectors - ME 17,5 TBUS 1,5/ 5-ST-3,81 KMGY - 2713645 https://www.phoenixcontact.com/pc/products/2713645



DIN rail connector, color: light grey, nominal current: 8 A (parallel contacts), rated voltage (III/2): 125 V, number of positions: 5, pitch: 3.81 mm, mounting: DIN rail mounting, locking: without, mounting: without, type of packaging: packed in cardboard, Item with gold-plated contacts, bus connectors for connecting with electronics housings, 5 parallel contacts

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