

# PSM-ME-RS485/RS485-P

Order No.: 2744429




<http://eshop.phoenixcontact.net/phoenix/treeViewClick.do?UID=2744429>

Repeater, for potential separation and range increase in RS-485 2-wire bus systems, 3-way isolation, rail-mountable



**RS-485**

## Commercial data

EAN	 4 017918 171797
Pack	1 pcs.
Customs tariff	85176200
Gross weight in pieces	0.1896 KG
Net weight per piece (exclusive packing)	0.1896 KG
Catalog page information	Page 481 (IF-2011)

## Product notes

WEEE/RoHS-compliant since:  
07/14/2006



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## Technical data

### Serial interface

Interface 1	RS-485 interface, in acc. with EIA/TIA-485, DIN 66259-4/RS-485 2-wire
Operating mode	Semi-duplex
File format/coding	UART (11/10 bit switchable; NRZ)

Data direction switching	Automatic control, min. station response time 1 bits
Termination resistor	390 Ω
	220 Ω
	390 Ω (Can be connected)
Transmission medium	2-wire twisted pair, shielded
Transmission length	max. 1200 m (depends on transmission speed, bus system and cable type)
Cascadability	9 (4,8 - 93,75 kbps)
	7 (115.2 - 136 kbps)
Connection method	Pluggable screw connection
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	14
Serial transmission speed	4.8/ 9.6/ 19.2/ 38.4/ 57.6/ 75/ 93.75/ 115.2/ 136/ 187.5/ 375/ 500/ 1500 kbps
Interface 2	RS-485 interface, in acc. with EIA/TIA-485, DIN 66259-4/RS-485 2-wire
Operating mode	Semi-duplex
File format/coding	UART (11/10 bit switchable; NRZ)
Data direction switching	Automatic control, min. station response time 1 bits
Transmission medium	2-wire twisted pair, shielded
Transmission length	1200 m (depends on transmission speed, bus system and cable type)
Cascadability	9 (4,8 - 93,75 kbps)
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	14
Serial transmission speed	4.8/ 9.6/ 19.2/ 38.4/ 57.6/ 75/ 93.75/ 115.2/ 136/ 187.5/ 375/ 500/ 1500 kbps
<b>Power supply</b>	
Nominal supply voltage	24 V AC/DC ±20 %
Typical current consumption	90 mA (24 V DC)
<b>General data</b>	
Transmission channels	2 (1/1), TD, RD, half duplex

Bit delay	< 200 ns
Bit distortion	< 1.5 %
Bit distortion, input	max. $\pm$ 35 %
Bit distortion, output	< 3.6 %
Width	22.5 mm
Height	99 mm
Depth	114.5 mm
Ambient temperature (operation)	0 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (no condensation)
Altitude	5000 m (For restrictions see manufacturer's declaration)
Electrical isolation	(VCC // RS-485 (A) // RS-485 (B))
Test voltage data interfaces	2 kV AC
Test voltage data interface/power supply	2 kV AC
	2 kV
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise emission	EN 50 081-1
Noise immunity	EN 61000-6-2:2005
Net weight	130 g
Housing material	PA
Color	green
MTBF	1849 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day))
	385 Years (Telcordia standard, 40°C temperature, 34.25% operating cycle (5 days a week, 12 hours a day))
UL, USA / Canada	508 recognized
	Class I, Div. 2, Groups A, B, C, D

#### Certificates / Approvals



Certification	cULus Recognized, GOST, DNV
Certification Ex:	cUL Recognized
Certifications applied for:	cUL / UL

**Accessories**

Item	Designation	Description
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**Assembly**

2853899	ME-SAS	Shield connection clamp for printed circuit terminal block
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**General**

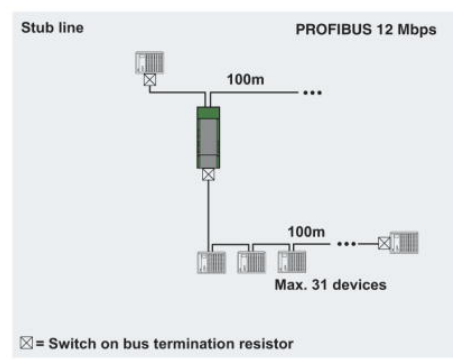
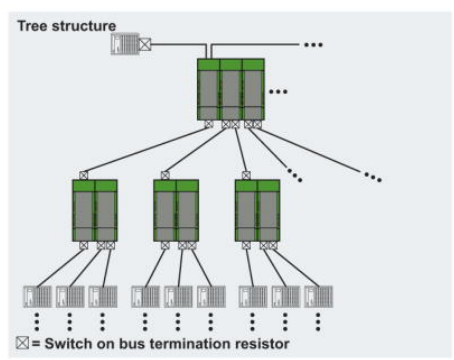
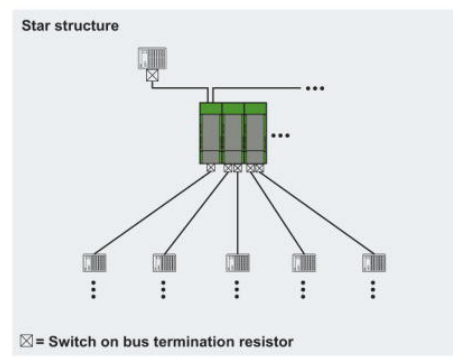
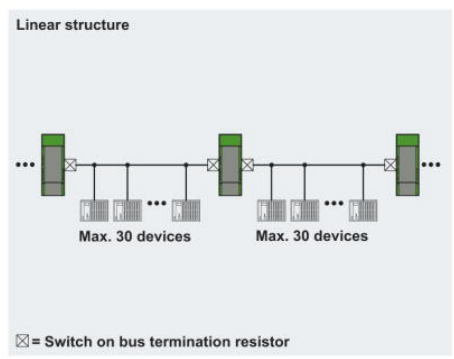
2313944	PSI-TERMINATOR-PB	Active termination resistor with redundant voltage supply for PROFIBUS and RS-485 bus systems. Compact design. Electrical isolation between supply and data interface. Bus termination can be switched. Integrated programming interface.
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**Tools**

1204517	SZF 1-0,6X3,5	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
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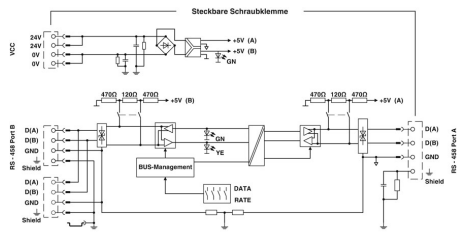
**Diagrams/Drawings**

Application drawing



### Circuit diagram

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