

PSM-ME-RS485/RS485-P

Order No.: 2744429



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



Commercial data	
EAN	4017918171797
Pack	1 pcs.
Customs tariff	85176200
Weight/Piece	0.202 KG
Catalog page information	Page 493 (IF-2009)

Product notes

WEEE/RoHS-compliant since:
10/18/2006



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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
Data rate	4,8/ 9,6/ 19,2/ 38,4/ 57,6/ 75/ 93,75/ 115,2/ 136/ 187,5/ 375/ 500/ 1500 kBit/s
Termination resistor	220 Ω can be connected; pull up/down 390 Ω
Transmission medium	2-wire twisted pair, shielded
Transmission length	max. 1200 m (depends on transmission rate, bus system and cable type)
Cascadability	9 (4,8 - 93,75 Kbit/s) 7 (115.2 - 136 Kbit/s)
Type of connection	Pluggable screw connection
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	14
Serial transmission rate	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
Data rate	4,8/ 9,6/ 19,2/ 38,4/ 57,6/ 75/ 93,75/ 115,2/ 136/ 187,5/ 375/ 500/ 1500 kBit/s
Transmission medium	2-wire twisted pair, shielded
Transmission length	1200 m (depends on transmission rate, bus system and cable type)
Cascadability	9 (4,8 - 93,75 Kbit/s)
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	14
Serial transmission rate	4.8/ 9.6/ 19.2/ 38.4/ 57.6/ 75/ 93.75/ 115.2/ 136/ 187.5/ 375/ 500/ 1500 kbps
Power supply	
Nominal supply voltage	24 V AC/DC ±20 %
Typical current consumption	Approx. 90 mA

General data

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	114.5 mm
Depth	99 mm
Ambient temperature (operation)	0 °C ... 55 °C
Electrical isolation	RS-485 (A) // RS-485 (B) // supply
Test voltage data interfaces	2 kV AC
Test voltage data interface/power supply	2 kV AC
Electromagnetic compatibility	Conformance with EMC directive 89/336/EEC
Emitted interference	EN 50 081-1
Immunity to interference	EN 61000-6-2:2005
Weight	130 g
Housing material	PA
Color	green
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D

Certificates / Approvals



Certification CUL, DNV, GOST, UL

Certification Ex: CUL-EX, UL-EX

Approbationslogos (EX-Bereich)



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