

Interface converter - PSM-ME-REP LON485-P - 2708041

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Repeater, for potential isolation and increasing the range in RS-485 2-wire LON bus systems, 3-way isolation, rail-mountable



Key commercial data

package_quantity	1
GTIN	4017918907570

Technical data

Note:

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	22.5 mm
Height	99 mm
Depth	114.5 mm

Ambient conditions

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)
Degree of protection	IP20
Noise immunity	EN 61000-6-2:2005

Serial interface

Interface 1	RS-485 interface in acc. with EIA/TIA-485, DIN 66259-4
Operating mode	Semi-duplex
Connection method	Pluggable screw connection
File format/coding	Manchester, slip-tolerant
Data direction switching	Automatic control
Transmission medium	2-wire twisted pair, shielded
Transmission length	(depends on transmission speed, bus system and cable type)
Termination resistor	120 Ω

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Technical data

Serial interface

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 speed	39.1/ 78.1/ 500/ 625/ 1000/ 1250/ 2000 kbps
Interface 2	RS-485 interface in acc. with EIA/TIA-485, DIN 66259-4
Operating mode	Semi-duplex
Connection method	Pluggable screw connection
File format/coding	Manchester, slip-tolerant
Data direction switching	Automatic control
Transmission medium	2-wire twisted pair, shielded
Transmission length	(depends on transmission speed, bus system and cable type)
Termination resistor	120 Ω
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 speed	39.1/ 78.1/ 500/ 625/ 1000/ 1250/ 2000 kbps

Power supply

Nominal supply voltage	24 V AC/DC ±20 %
Typical current consumption	90 mA (24 V DC)

General

Transmission channels	2 (1/1), RxD, TxD, full duplex
Bit distortion	< 1.5 % (applies to device: Distortions caused by system-specific cables are not accounted for)
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
Test voltage data interface/power supply	2 kV
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise emission	EN 50 081-1
Net weight	130 g
Housing material	PA
Color	green
Conformance	CE-compliant
UL, USA / Canada	508 recognized
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D

classifications

eCl@ss

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classifications

eCl@ss

eCl@ss 4.0	27250312
eCl@ss 4.1	27250312
eCl@ss 5.0	27242208
eCl@ss 5.1	27242208
eCl@ss 6.0	27242208
eCl@ss 7.0	27242208
eCl@ss 8.0	27242208

ETIM

ETIM 2.0	EC000698
ETIM 3.0	EC000698
ETIM 4.0	EC000698
ETIM 5.0	EC000310

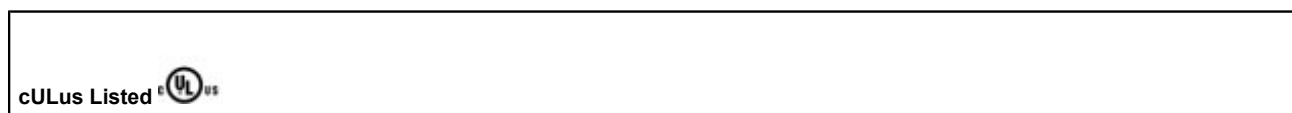
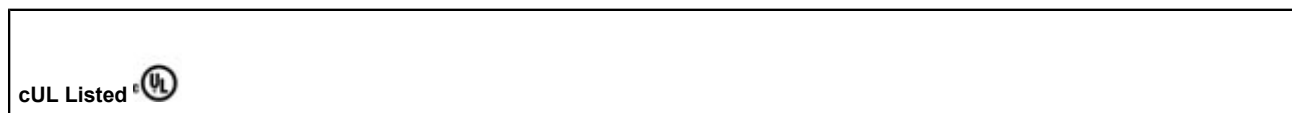
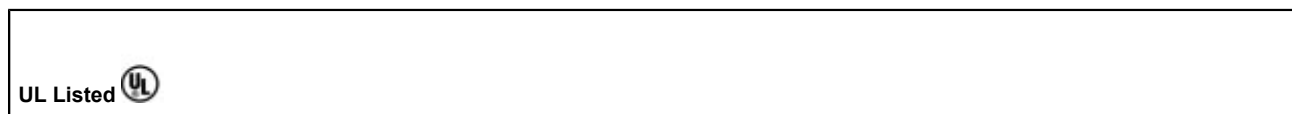
UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	43201553

approvals

UL Listed / cUL Listed / cULus Listed / UL Recognized / cUL Recognized / cULus Recognized /

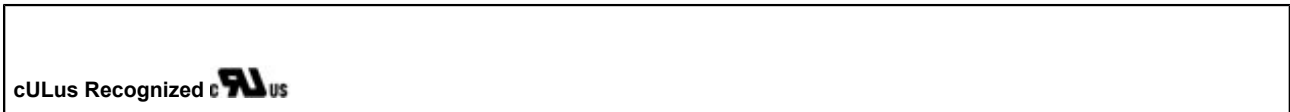
Approval details



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approvals

Nominal voltage UN	
Nominal current IN	
mm ² /AWG/kcmil	



Drawings

Circuit diagram

