

Interface converter - PSM-ME-RS232/RS232-P - 2744461

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Interface converter, for the isolation of RS-232 (V.24) interfaces, 4 channels, rail-mountable

Product Features

- Mounting on standard EN DIN rails
- In the case of variable cable lengths, the RS-232 connection on the field side can be established conveniently using plug-in screw terminal blocks
- High-quality 3-way isolation up to 2 kV (VCC // RS-232 // RS-232)
- Integrated surge protection with transient discharge to the DIN rail
- Maximum transmission speed of 115.2 kbps
- Transmission of TxD/RxD data channels and RTS/CTS control lines
- 24 V DC or AC power supply suitable for the control cabinet
- Active data transmission indicated by separate data indicators for the transmit and receive channels



Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 188795
Weight per Piece (excluding packing)	123.18 g
Custom tariff number	85176200
Country of origin	Germany

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	118.6 mm

Interface converter - PSM-ME-RS232/RS232-P - 2744461

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Ambient conditions

Ambient temperature (operation)	0 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Altitude	5000 m (For restrictions see manufacturer's declaration)
Degree of protection	IP20
Noise immunity	EN 61000-6-2:2005

General

Transmission channels	4 (2/2), Rx/D, Tx/D, RTS, CTS; full duplex
Bit delay	< 3 µs
Bit distortion	< 5 %
Electrical isolation	VCC // V.24 (RS-232) (A) // V.24 (RS-232) (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 2014/30/EU
Noise emission	EN 61000-6-3
Net weight	123.18 g
Housing material	PA
Color	green
MTBF	2263 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day))
	438 Years (Telcordia standard, 40°C temperature, 34.25% operating cycle (5 days a week, 12 hours a day))
Conformance	CE-compliant
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

Power supply

Nominal supply voltage	24 V AC/DC ±20 %
Supply voltage range	19.2 V AC/DC ... 28.8 V AC/DC
Typical current consumption	40 mA (24 V DC)

Serial interface

Interface 1	V.24 (RS-232) interface in acc. with ITU-T V.28, EIA/TIA-232, DIN 66259-1
Connection method	D-SUB-9 plug
Transmission length	15 m (twisted pair)
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	2.5 mm²
Conductor cross section AWG min.	24

Interface converter - PSM-ME-RS232/RS232-P - 2744461

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Serial interface

Conductor cross section AWG max.	13
Serial transmission speed	115.2 kbps
Interface 2	V.24 (RS-232) interface in acc. with ITU-T V.28, EIA/TIA-232, DIN 66259-1
Connection method	Pluggable screw connection
Transmission length	15 m (twisted pair)
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	13

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise emission	EN 61000-6-3
Noise immunity	EN 61000-6-2:2005
Connection in acc. with standard	CUL
Conformance	CE-compliant
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

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	EC000310
ETIM 3.0	EC000310
ETIM 4.0	EC000310
ETIM 5.0	EC000310

UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008

Interface converter - PSM-ME-RS232/RS232-P - 2744461

Classifications

UNSPSC

UNSPSC 12.01	39121008
UNSPSC 13.2	43201553

Approvals

Approvals

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UL Recognized / cUL Recognized / DNV / EAC / cULus Recognized

Ex Approvals

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

Approvals submitted

Approval details

UL Recognized 

cUL Recognized 

DNV

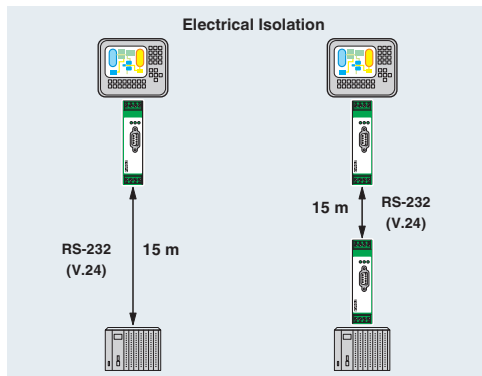
EAC

cULus Recognized 

Drawings

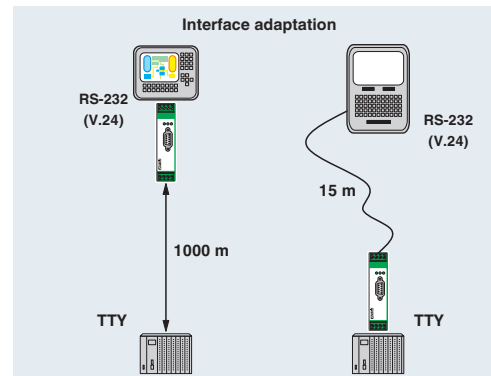
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Application drawing



Electrical isolation

Application drawing



Interface adaptation