

Interface converter - PSM-ME-RS232/TTY-P - 2744458

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

Product Features

- Mounting on standard EN DIN rails
- Transmission distances of up to 1000 m in active TTY mode
- High-quality 3-way isolation up to 2 kV (VCC // RS-232 // TTY)
- In the case of variable cable lengths, the TTY connection on the field side can be established conveniently using plug-in screw terminal blocks
- Integrated surge protection with transient discharge to the DIN rail
- Conversion of RS-232 TxD/RxD full duplex data signals to the TTY current loop standard
- Semi-active, active or passive TTY mode, depending on pin assignment
- 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
- RS-232 connection via 9-pos. D-SUB and standard RS-232 cable
- Transmission speed of up to 19.2 kbps



Key commercial data

package_quantity	1
GTIN	4017918171803

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

Ambient conditions

Ambient temperature (operation)	0 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (no condensation)

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Ambient conditions

Altitude	5000 m (For restrictions see manufacturer's declaration)
Degree of protection	IP20
Noise immunity	EN 61000-6-2:2005

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 male connector
Transmission length	15 m (twisted pair)
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	13
Serial transmission speed	≤ 19.2 kbps
Interface 2	TTY interface, CL2 in acc. with DIN 66348-1
Operating mode	Active, semi active, passive
Connection method	Pluggable screw connection
Transmission length	1000 m (twisted pair)
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	13
Load/output load current output	≤ 500 Ω
Serial transmission speed	≤ 19.2 kbps

Power supply

Nominal supply voltage	24 V AC/DC ±20 %
Typical current consumption	75 mA (24 V DC)

General

Transmission channels	2 (1/1), RxD, TxD, full duplex
Bit delay	< 3 μs
Bit distortion	< 5 %
Electrical isolation	(VCC // V.24 (RS-232) // TTY)
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 61000-6-4
Net weight	115 g
Housing material	PA
Color	green
MTBF	1989 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day))

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Technical data

General

MTBF	410 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
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D

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	EC000698


UNSPSC

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

approvals

cUL Recognized / UL Listed / cUL Listed / cULus Listed / UL Recognized / cUL Recognized / GOST / DNV / cULus Recognized /

Approval details

cUL Recognized 	
Nominal voltage UN	24 V
Nominal current IN	0.075 A
mm ² /AWG/kcmil	

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approvals

UL Listed

cUL Listed

cULus Listed

UL Recognized

GOST

DNV

cULus Recognized

accessories

Adapter cable

PSM-KA 9 SUB 25/BB/2METER - 2761059



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accessories

PSM-KA9SUB9/BB/2METER - 2799474



Mounting material

ME-SAS - 2853899



Screwdriver tools

SZF 1-0,6X3,5 - 1204517



Data plug

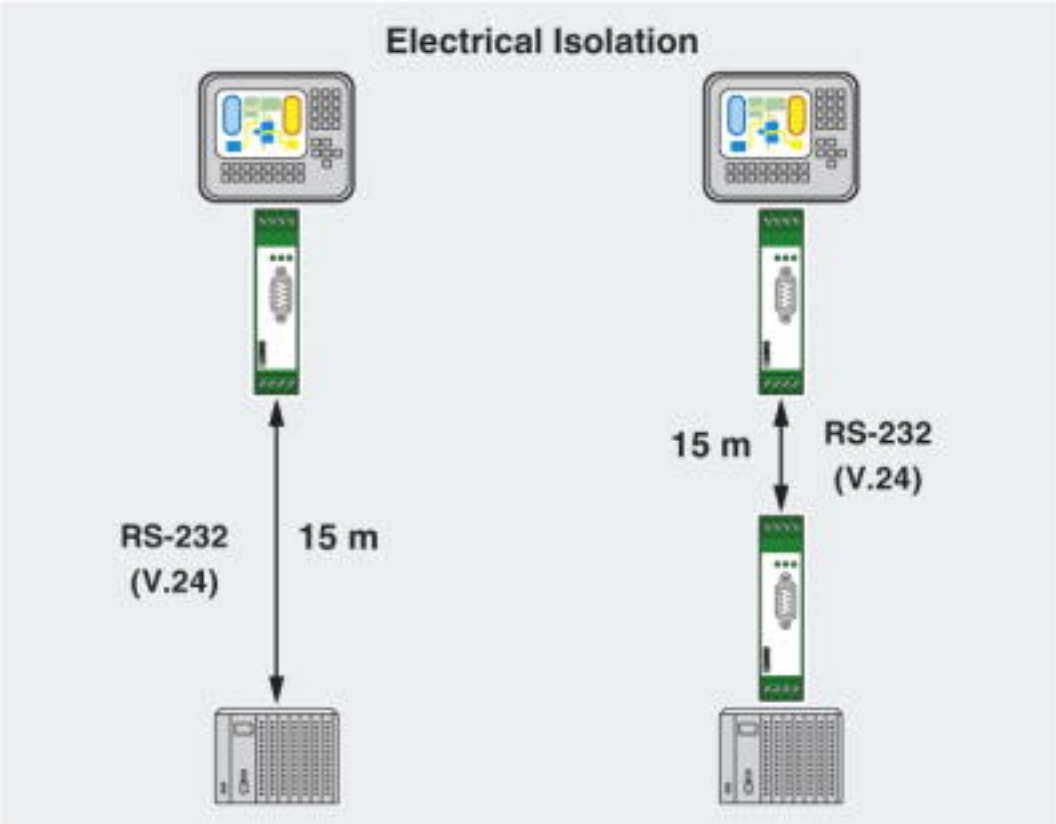
SUBCON 9/M-SH - 2761509



Drawings

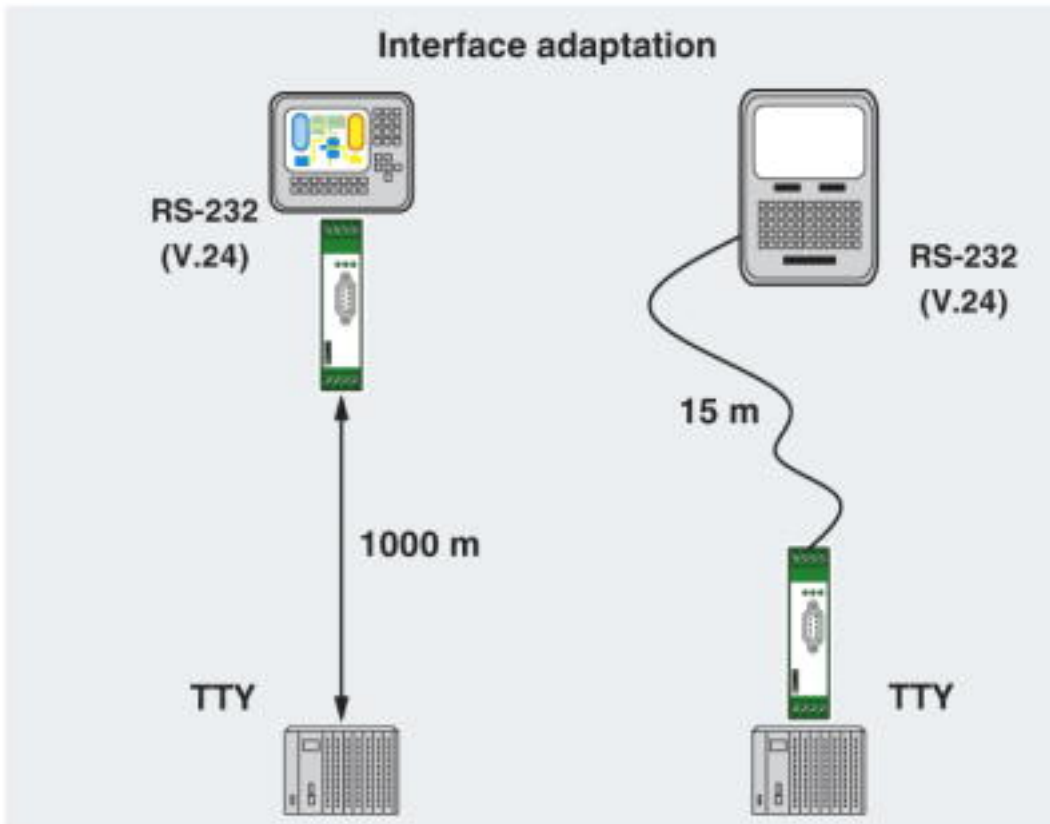
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Application drawing



Interface converter - PSM-ME-RS232/TTY-P - 2744458

Application drawing



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