

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

Why buy this product

- ✓ 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

| | |
|--------------------------------------|---|
| Packing unit | 1 pc |
| GTIN |  4 017918 171803 |
| Weight per Piece (excluding packing) | 179.6 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 |
|-------------------------|---|

Dimensions

| | |
|-------|---------|
| Width | 22.5 mm |
|-------|---------|

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Dimensions

| | |
|--------|----------|
| 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 % (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 | 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 |
| | 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)) |
| | 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 |
| | Class I, Div. 2, Groups A, B, C, D |

Power supply

| | |
|-----------------------------|------------------|
| Nominal supply voltage | 24 V AC/DC ±20 % |
| Typical current consumption | 75 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 stranded min. | 0.2 mm ² |
| Conductor cross section stranded max. | 2.5 mm ² |
| Conductor cross section AWG/kcmil min. | 24 |

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Serial interface

| | |
|--|---|
| 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 |

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 | 27143129 |

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

Approvals

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

Approvals

Approvals


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

Ex Approvals

cUL Recognized / UL Listed / cUL Listed / cULus Listed

Approvals submitted

Approval details

UL Recognized 

cUL Recognized 

GOST 

DNV

cULus Recognized 

Accessories

Accessories

Adapter cable

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



RS-232 cable, 9-pos. D-SUB socket 25-pos on D-SUB socket

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Accessories

Data cable - PSM-KA9SUB9/BB/2METER - 2799474



RS-232 cable, 9-pos. D-SUB socket on 9-pos. D-SUB socket, 9-wire, 1:1

Data plug

D-SUB bus connector - SUBCON 9/M-SH - 2761509



D-SUB connector, 9-pos., male connector, one cable entry < 35°, universal type for all systems, pin assignment: 1, 2, 3, 4, 5, 6, 7, 8, 9 to screw connection terminal block

Mounting material

Components of electronic housing - ME-SAS - 2853899



Shield connection clamp for printed circuit terminal block

Screwdriver tools

Screwdriver - SZF 1-0,6X3,5 - 1204517

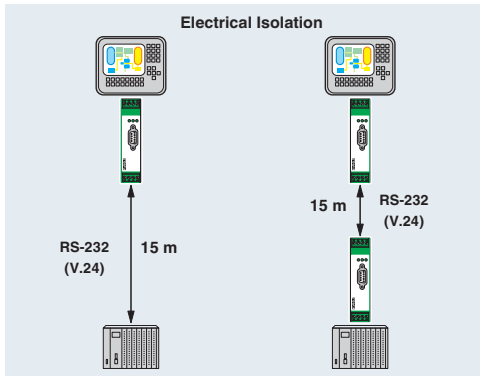


Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

Drawings

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

Application drawing



Application drawing

