

## Data interface - EM-PB-GATEWAY-IFS - 2297620

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The PROFIBUS module EM-PB-GATEWAY-IFS, certified as per DPV1 specification (EN 50170), connects up to 32 motor management modules (EMM-...IFS) or other INTERFACE system devices via the TBUS DIN rail connector.

### Product Features

- 8 digital inputs and 4 outputs can be freely parameterized
- Certified according to DPV1 specification (EN 50170)
- Failsafe mode supported
- Digital switching outputs for direct control of the EMM...IFS (forward/reverse running)
- Communication via TBUS with up to 31 EMM...IFS modules
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### Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	180.0 GRM
Custom tariff number	85389091
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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#### Device supply

Rated control supply voltage $U_s$	24 V DC -20 % ... +25 %
Rated control supply current $I_s$	85 mA (plus load current of the outputs)
Protective circuit	Protection against polarity reversal
	Surge protection

#### Digital inputs

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### Technical data

#### Digital inputs

Number	8
Rated actuating voltage $U_C$	24 V DC $\pm 20\%$
Rated actuating current $I_C$	3 mA
Protective circuit	Protection against polarity reversal

#### Digital outputs

Designation	Switching outputs
Number	4
Note on protection circuit	Fusing with max. 8 A F-fuse
Residual voltage	1 V
Maximum switching voltage	23 V DC ( $U_B - U_{resid.}$ of the output)
Max. switching current	500 mA
Protective circuit	Parallel protection against polarity reversal, pay attention to the fuse

#### Connection data supply

Connection name	COMBICON connection
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	2 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	12
Conductor cross section AWG/kcmil max.	24
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Screw thread	M3
Connection method	Screw connection
Stripping length	8 mm

#### Connection data programming connection

Connection name	Programming connection
Number of connections	1
Connection method	S-PORT (socket)
Number of positions	12

#### Connection data INTERFACE system

Connection name	INTERFACE system
Number of connections	1
Connection method	DIN rail bus connectors
Number of positions	5

#### Connection data BUS connection

Connection name	PROFIBUS DP
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### Technical data

#### Connection data BUS connection

Number of connections	1
Connection method	D-SUB
Number of positions	9

#### General

Operating mode	100% operating factor
Degree of protection	IP20
Standards/regulations	EN 50178
Pollution degree	2
Surge voltage category	III
Mounting position	any
Assembly instructions	In rows with zero spacing
Mounting type	DIN rail mounting
Housing material	Polyamide PA non-reinforced
Color	green

#### Serial interface

Interface 1	IFS interface
Serial transmission speed	76.8 kbps
Connection method	DIN rail bus connectors
Interface 2	PROFIBUS DP
Serial transmission speed	12 Mbps
Connection method	D-SUB-9

#### Ambient conditions

Ambient temperature (operation)	-35 °C ... 50 °C
Ambient temperature (storage/transport)	-35 °C ... 80 °C

#### Dimensions

Width	22.5 mm
Height	99 mm
Depth	114.5 mm

### Classifications

#### eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	27371102
eCl@ss 5.0	27371601

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## Classifications

### eCl@ss

eCl@ss 5.1	27371601
eCl@ss 6.0	27371601
eCl@ss 7.0	27371601
eCl@ss 8.0	27242608

### ETIM

ETIM 2.0	EC000066
ETIM 3.0	EC000066
ETIM 4.0	EC000674
ETIM 5.0	EC001604

### UNSPSC

UNSPSC 6.01	30211915
UNSPSC 7.0901	39121514
UNSPSC 11	39121514
UNSPSC 12.01	39121514
UNSPSC 13.2	39121514

## Approvals

### Approvals

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#### Approvals

UL Listed / cUL Listed / cULus Listed

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#### Ex Approvals

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#### Approvals submitted

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### Approval details

UL Listed 
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### Approvals



### Accessories

#### Accessories

#### Memory block

Memory block - IFS-CONFSTICK-L - 2901103



Multi-functional memory block with handle for the INTERFACE system; for easy storage and back up of the configuration.

Memory block - IFS-CONFSTICK - 2986122



Multi-functional memory block for the INTERFACE systemf for easy storage and backup of the configuration.

#### PCB plug

Printed-circuit board connector - MC 1,5/ 5-ST-3,81 - 1803604



Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 5, Pitch: 3.81 mm, Connection method: Screw connection, Color: green, Contact surface: Tin

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## Accessories

Printed-circuit board connector - IMC 1,5/ 5-ST-3,81 - 1857919

Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 5, Pitch: 3.81 mm, Connection method: Screw connection, Color: green, Contact surface: Tin



Plug - IMC 1,5/ 5-ST-3,81SET IL IFS 2M - 1784729

Assembled connecting cable, IL-IFS, 2 m in length

## Required add-on products

Data cable - IFS-USB-DATACABLE - 2320500

Used for communicating between industrial PCs and Phoenix Contact devices with the 12-pos. IFS data port, such as QUINT UPS or TRIO UPS.



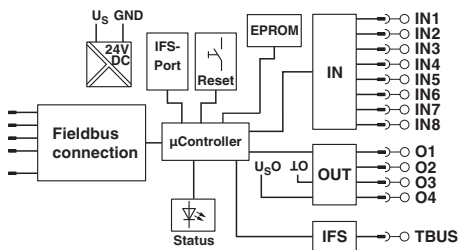
DIN rail connector - ME 22,5 TBUS 1,5/ 5-ST-3,81 GN - 2707437

DIN rail connector for DIN rail mounting. Universal for TBUS housing. Gold-plated contacts, 5-pos.

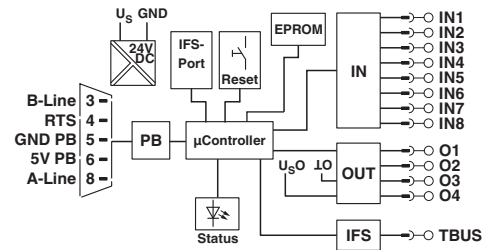


## Drawings

Block diagram



Block diagram



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Application drawing

