

EM-PSAFE-GATEWAY-IFS - Data interface



1188207

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Gateway for the connection of up to 15 Interface system devices to a higher-level safe controller via PROFIsafe. The system devices are connected to the gateway via DIN rail connectors. The DIN rail connectors are provided.

Commercial data

Item number	1188207
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C477
Product key	DK7711
GTIN	4063151231675
Weight per piece (including packing)	299.7 g
Weight per piece (excluding packing)	257 g
Customs tariff number	85176200
Country of origin	DE

Technical data

Product properties

Product type	Gateways/Proxies
Insulation characteristics	
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
Insulation characteristics	
Overvoltage category	III
Pollution degree	2

Electrical properties

Supply

Nominal supply voltage	24 V DC
Current consumption	67 mA (without connected sensors)
Fuse	≤ 8 A (external) Slow-blow

Supply

Nominal supply voltage	24 V DC
Current consumption	52 mA (without actuators connected)
Fuse	≤ 8 A (external) Slow-blow

Input data

Digital

Rated actuating voltage U_C	24 V DC $\pm 20\%$
Rated actuating current I_C	3 mA
Protective circuit	Reverse polarity protection

Output data

Digital: Switching outputs

Residual voltage	1 V
Maximum switching voltage	23 V DC ($U_B - U_{\text{resid.}}$ of the output)
Max. switching current	500 mA (per output)
Protective circuit	Reverse polarity protection

Digital: Safe digital outputs

Rated output voltage U_{SO}	24 V DC (from safe U_{SO})
Protective circuit	Overload protection
	Short-circuit protection

Connection data

Supply

Connection method	Push-in connection
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Stripping length	10 mm
Conductor cross-section rigid	0.2 mm² ... 2.5 mm²
Conductor cross-section flexible	0.2 mm² ... 2.5 mm²
Conductor cross-section AWG	24 ... 12

Programming connection

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

INTERFACE system

Connection method	DIN rail bus connector
Number of connections	1
Number of positions	5

PROFINET (PROFIsafe)

Connection method	RJ45
Number of connections	2

Interfaces

Data: Network interface

Communication protocol	PROFINET
Connection method	RJ45 jack
Number of connections	2
Note	PROFIsafe tunneled
Transmission speed	10 Mbps
	100 Mbps

Data: Service interface

Communication protocol	Interface-System
Connection method	S-PORT (socket)
Number of connections	1
Number of positions	12

Data: Device bus

Communication protocol	Interface-System
Connection method	DIN rail bus connector
Number of connections	1
Number of positions	5
Transmission speed	76.8 kbps

Dimensions

Width	45 mm
Height	107.8 mm
Depth	113.8 mm

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Material specifications

Color	gray (RAL 7042)
Housing material	Polyamide PA non-reinforced

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20 (DIN EN 60529)
Ambient temperature (operation)	-35 °C ... 50 °C
Ambient temperature (storage/transport)	-35 °C ... 80 °C
Altitude	≤ 3000 m
Permissible humidity (storage/transport)	75 % (non-condensing)
Air pressure (operation)	70 kPa ... 108 kPa
Air pressure (storage/transport)	66 kPa ... 108 kPa (≤ 3500 m)

Approvals

UKCA

Certificate	UKCA-compliant
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EMC data

Electromagnetic compatibility	Conformance with EMC directive
Noise immunity	EN 61000-6-2

Electrostatic discharge

Standards/regulations	IEC/EN 61000-4-2
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Electrostatic discharge

Contact discharge	6 kV
Discharge in air	8 kV
Comments	Criterion A

Electromagnetic HF field

Standards/regulations	IEC/EN 61000-4-3
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Electromagnetic HF field

Test field strength	10 V/m
Comments	Criterion A

Fast transients (burst)

Standards/regulations	IEC/EN 61000-4-4
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Fast transients (burst)

Signal	2 kV (test voltage)
Comments	Criterion A

Surge current load (surge)

Standards/regulations	IEC/EN 61000-4-5
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Surge current load (surge)

Signal	1 kV (symmetrical(test severity level 2))
	2 kV (asymmetrical(test severity level 2))
Comments	Criterion A

Conducted interference

Standards/regulations	IEC/EN 61000-4-6
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Conducted interference

Comments	Criterion A
Voltage	10 V (test voltage)

Emitted interference

Standards/regulations	EN 55011
Comments	Class A, industrial applications

Standards and regulations

Standards/regulations	EN 61131-2
	EN ISO 13849-1
	IEC 61508
	IEC 62061

Air clearances and creepage distances

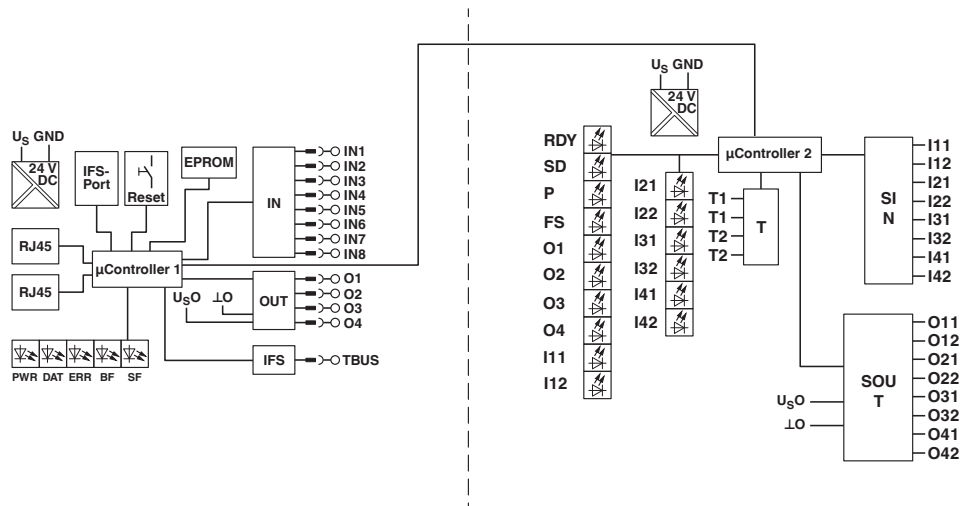
Standards/regulations	IEC 60664-1
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Mounting

Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any

Drawings

Circuit diagram



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Approvals

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PROFINET

Approval ID: Z13651

PROFIsafe

Approval ID: Z20349

Classifications

ECLASS

ECLASS-13.0	27242608
ECLASS-15.0	27242608

ETIM

ETIM 10.0	EC001604
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol(CAS: 79-94-7)