

# EM-ETH-GATEWAY-IFS - Data interface



2901988

<https://www.phoenixcontact.com/us/products/2901988>

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Gateway for the connection of up to 32 INTERFACE system devices to a higher-level controller via EtherNet/IP™. The INTERFACE system devices are connected to the Gateway via DIN rail connectors, the DIN rail connectors are provided.

## Commercial data

Item number	2901988
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C477
Product key	CK7712
Catalog page	Page 20 (C-5-2019)
GTIN	4046356641937
Weight per piece (including packing)	201.6 g
Weight per piece (excluding packing)	194.2 g
Customs tariff number	85176200
Country of origin	DE

## Technical data

### Notes

#### Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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### Product properties

Product type	Gateways/Proxies
Operating mode	100% operating factor

#### Insulation characteristics

Overvoltage category	III
Pollution degree	2

### Electrical properties

#### Supply

Rated control circuit 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	Reverse polarity protection
	Surge protection

### Input data

#### Digital

Number	8
Rated actuating voltage $U_C$	24 V DC $\pm 20$ %
Rated actuating current $I_C$	3 mA
Protective circuit	Reverse polarity protection
	Surge protection

### Output data

#### Digital: Switching outputs

Number	4
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 (Fusing with max. 8 A F-fuse)

### Connection data

#### Supply

Connection method	Screw connection
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Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm <sup>2</sup> ... 2 mm <sup>2</sup>
Conductor cross section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
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 connectors
Number of connections	1
Number of positions	5

## Ethernet/IP™

Connection method	RJ45
Number of connections	1

## Interfaces

### Data: Interface-System

Data rate	76800 Baud
Serial transmission speed	76.8 kbps
Connection method	DIN rail bus connectors
	S-PORT (male connector)

### Data: EtherNet/IP™

Serial transmission speed	100 Mbps
Connection method	RJ45 jack

### Data: Network interface

Communication protocol	EtherNet/IP™
Connection method	RJ45 jack
Number of connections	1
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 connectors

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Number of connections	1
Number of positions	5
Transmission speed	76.8 kbps

## Dimensions

Width	22.5 mm
Height	107.8 mm
Depth	113.8 mm

## Material specifications

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

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 50 °C
Ambient temperature (storage/transport)	-35 °C ... 80 °C

## Approvals

### UKCA

Certificate	UKCA-compliant
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## Standards and regulations

Standards/regulations	EN 50178
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## Mounting

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

Classifications

ECLASS

ECLASS-11.0	27242608
ECLASS-12.0	27242608
ECLASS-13.0	27242608

ETIM

ETIM 9.0	EC001604
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UNSPSC

UNSPSC 21.0	32151600
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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