

Data interface - EM-ETH-GATEWAY-IFS - 2901988

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



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.

RoHS

Key Commercial Data

Packing unit	1 STK
GTIN	
GTIN	4046356641937
Weight per Piece (excluding packing)	194.200 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
-------------------------	---

Device 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

Digital inputs

Number	8
Rated actuating voltage U_c	24 V DC \pm 20 %
Rated actuating current I_c	3 mA
Protective circuit	Reverse polarity protection

Digital outputs

Data interface - EM-ETH-GATEWAY-IFS - 2901988

Technical data

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	Supply
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.2 mm ² ... 2 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section AWG	12 ... 24

Connection data programming connection

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

Connection data INTERFACE system

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

Connection data BUS connection

Connection name	Ethernet/IP™
Connection method	RJ45
Number of connections	1

General

Operating mode	100% operating factor
Degree of protection	IP20
Standards/regulations	EN 50178
Degree of pollution	2
Overvoltage category	III
Mounting position	any
Assembly instructions	In rows with zero spacing
Mounting type	DIN rail mounting

Data interface - EM-ETH-GATEWAY-IFS - 2901988

Technical data

General

Housing material	Polyamide PA non-reinforced
Color	green

Serial interface

Interface 1	Interface-System
Serial transmission speed	76.8 kbps
Connection method	DIN rail bus connectors
Interface 2	EtherNet/IP™
Serial transmission speed	100 Mbps
Connection method	RJ45 socket

Ambient conditions

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

Dimensions

Width	22.5 mm
Height	99 mm
Depth	114.5 mm

Standards and Regulations

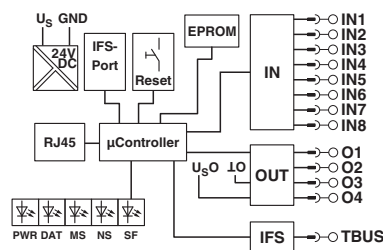
Standards/regulations	EN 50178
Degree of pollution	2
Overvoltage category	III

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Block diagram



Classifications

eCI@ss

eCI@ss 5.1	27242608
------------	----------

Data interface - EM-ETH-GATEWAY-IFS - 2901988

Classifications

eCl@ss

eCl@ss 6.0	27242608
eCl@ss 7.0	27242608
eCl@ss 8.0	27242608
eCl@ss 9.0	27242608

ETIM

ETIM 3.0	EC001604
ETIM 4.0	EC001604
ETIM 5.0	EC001604
ETIM 6.0	EC001604

UNSPSC

UNSPSC 6.01	30211915
UNSPSC 7.0901	39121514
UNSPSC 11	39121514
UNSPSC 12.01	39121514
UNSPSC 13.2	32151602

Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
-----------	--	---	---------------

cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
------------	--	---	---------------

EAC		RU C- DE.A*30.B.01082
-----	--	--------------------------

Data interface - EM-ETH-GATEWAY-IFS - 2901988

Approvals

cULus Listed	
--------------	--

Accessories

Accessories

Device marking

Plastic label - US-EMLP (15X5) - 0828790



Plastic label, Card, white, unlabeled, can be labeled with: THERMOMARK PRIME, THERMOMARK CARD, BLUEMARK ID, BLUEMARK ID COLOR, mounting type: adhesive, lettering field size: 15 x 5 mm

Plastic label - UC-EMLP (15X5) - 0819301



Plastic label, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID, BLUEMARK ID COLOR, BLUEMARK CLED, BLUEMARK LED, CMS-P1-PLOTTER, PLOTMARK, mounting type: adhesive, lettering field size: 15 x 5 mm

DIN rail connector

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



DIN rail connector, nominal current: 8 A, nominal current (Ex): 8 A, nominal voltage (Ex): 125 V, number of positions: 5, pitch: 3.81 mm, Articles with gold-plated contacts, bus connectors for connecting with electronic housings

Extension module

Extension module - EM-D-8/4-24DC-IFS - 2904473



For more complex applications with Interface system devices (IFS), the extension module offers digital inputs and outputs for processing additional signals in the field. Easy connection to IFS gateway via the DIN rail connector as the slave.

Memory block

Data interface - EM-ETH-GATEWAY-IFS - 2901988

Accessories

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



PCB connector, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 5, pitch: 3.81 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin

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



PCB connector, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 5, pitch: 3.81 mm, connection method: Screw connection with tension sleeve, 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

Programming adapter

Data interface - EM-ETH-GATEWAY-IFS - 2901988

Accessories

Adapter - IFS-BT-PROG-ADAPTER - 2905872



Bluetooth adapter with micro USB and S-PORT interface for wireless communication with the MINI Analog, MINI Analog Pro, MACX Analog, INTERFACE system gateways, and PLC logic device series.

Additional 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.