PHŒNIX CONTACT

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

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

Your advantages

☑ 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

RoHS

COMPLETE line

Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 319652
GTIN	4046356319652
Weight per Piece (excluding packing)	180.000 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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Technical data

Dimensions

Height	107.8 mm
Depth	113.8 mm

Ambient conditions

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

Device supply

Rated control circuit supply voltage U_S	24 VDC -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 VDC ±20%
Rated actuating current I_C	3 mA
Protective circuit	Reverse polarity protection

Digital outputs

Designation	Switching outputs
Number	4
Residual voltage	1 V
Maximum switching voltage	23 VDC (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

General

Operating mode	100% operating factor
Mounting position	any
Assembly instructions	In rows with zero spacing
Mounting type	DIN rail mounting
Housing material	Polyamide PA non-reinforced
Color	gray

Serial interface

Interface 1	Interface-System
Serial transmission speed	76.8 kbps
Connection method	DIN rail bus connectors

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Technical data

Serial interface

Interface 2	PROFIBUS DP
Serial transmission speed	12 Mbps
Connection method	D-SUB-9

Connection data

Connection name	Supply
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.2 mm² ... 2 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 12

Connection data 2

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

Connection data 3

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

Connection data 4

Connection name	PROFIBUS DP
Connection method	D-SUB
Number of connections	1
Number of positions	9

Standards and Regulations

Standards/regulations	EN50178
Pollution degree	2
Overvoltage category	III

Environmental Product Compliance

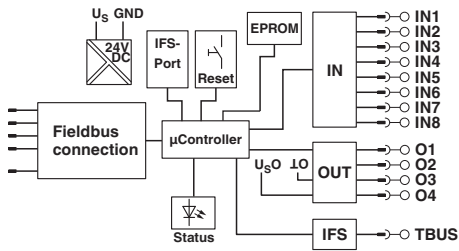|	
REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years

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Technical data
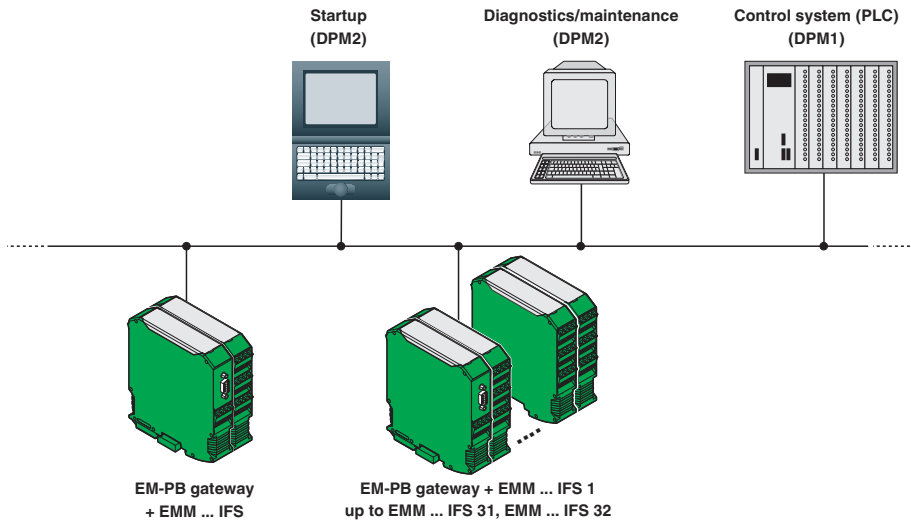
Environmental Product Compliance

	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Block diagram

Application drawing

EM-PB gateway
+ EMM ... IFS

EM-PB gateway + EMM ... IFS 1
up to EMM ... IFS 31, EMM ... IFS 32

Classifications

eCl@ss

eCl@ss 10.0.1	27242608
eCl@ss 11.0	27242608
eCl@ss 4.0	27371100
eCl@ss 4.1	27371100
eCl@ss 5.0	27371600
eCl@ss 5.1	27371600

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Classifications

eCl@ss

eCl@ss 6.0	27242600
eCl@ss 7.0	27242608
eCl@ss 8.0	27242608
eCl@ss 9.0	27242608

ETIM

ETIM 2.0	EC000066
ETIM 3.0	EC000066
ETIM 4.0	EC000674
ETIM 5.0	EC001604
ETIM 6.0	EC001604
ETIM 7.0	EC001604

UNSPSC

UNSPSC 6.01	30211915
UNSPSC 7.0901	39121514
UNSPSC 11	39121514
UNSPSC 12.01	39121514
UNSPSC 13.2	32151602
UNSPSC 18.0	32151602
UNSPSC 19.0	32151602
UNSPSC 20.0	32151602
UNSPSC 21.0	32151602

Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

Approval details

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Approvals

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

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

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

cULus Listed	c UL us LISTED

Accessories

Accessories

Connector set

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

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

Device marking

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

Plastic label, Card, white, unlabeled, can be labeled with: BLUEMARKIDCOLOR, BLUEMARKID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 15 x 5 mm, Number of individual labels: 189

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Accessories

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

Plastic label, Sheet, white, unlabeled, can be labeled with: BLUEMARKIDCOLOR, BLUEMARKID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: adhesive, lettering field size: 15 x 5 mm, Number of individual labels: 10

DIN rail connector

DIN rail bus connectors - ME 22,5 TBUS 1,5/ 5-ST-3,81 GY - 2201937

DIN rail connector, color: gray, nominal current: 8 A (parallel contacts), rated voltage (III/2): 125 V, Number of positions per row: 5, pitch: 3.81 mm, mounting: DIN rail mounting, Locking: without, type of packaging: packed in cardboard, Item with gold-plated contacts, bus connectors for connecting with electronics housings, 5 parallel contacts

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

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.

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Accessories

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 cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Female connector, Number of potentials: 5, Number of rows: 1, Number of positions per row: 5, number of connections: 5, product range: MC 1,5/..-ST, pitch: 3.81 mm, connection method: Screw connection with tension sleeve, conductor/PCB connection direction: 0 °, Stecksystem: MINI COMBICON, Locking: without, type of packaging: packed in cardboard

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

PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Male connector, Number of potentials: 5, Number of rows: 1, Number of positions per row: 5, number of connections: 5, product range: IMC 1,5/..-ST, pitch: 3.81 mm, connection method: Screw connection with tension sleeve, conductor/PCB connection direction: 0 °, Stecksystem: MINI COMBICON, Locking: without, type of packaging: packed in cardboard

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Programming adapter

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.

Necessary add-on products

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

Accessories

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.