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

2904473

https://www.phoenixcontact.com/us/products/2904473

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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.

Commercial Data

Item number	2904473
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Sales Key	C05
Product Key	CK772Z
Catalog Page	Page 21 (C-5-2019)
GTIN	4046356826051
Weight per Piece (including packing)	181.7 g
Weight per Piece (excluding packing)	99.99 g
Customs tariff number	85389091
Country of origin	DE

Technical Data

Product properties

Product type	Extension module
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 ±20 %
Triggering voltage range	19.2 V DC ... 28.8 V DC
Rated actuating current I_C	3 mA
Protective circuit	Reverse polarity protection
	Surge protection

Output data

Digital: Switching outputs

Number	4
Rated output voltage U_SO	24 V DC
Residual voltage	1 V
Maximum switching voltage	23 V DC (U_B - $U_{resid.}$ of the output)
Max. switching current	500 mA (per output)
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
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

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

Interfaces

Data: IFS interface

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

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

Dimensions

Width	22.5 mm
Height	99 mm
Depth	114.5 mm

Material specifications

Housing material	Polyamide PA non-reinforced

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-35 °C ... 50 °C

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

Approval data

UKCA

Certificate	UKCA-compliant

Standards and regulations

Standards/regulations	EN 61131-2

Mounting

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

Drawings

Block diagram
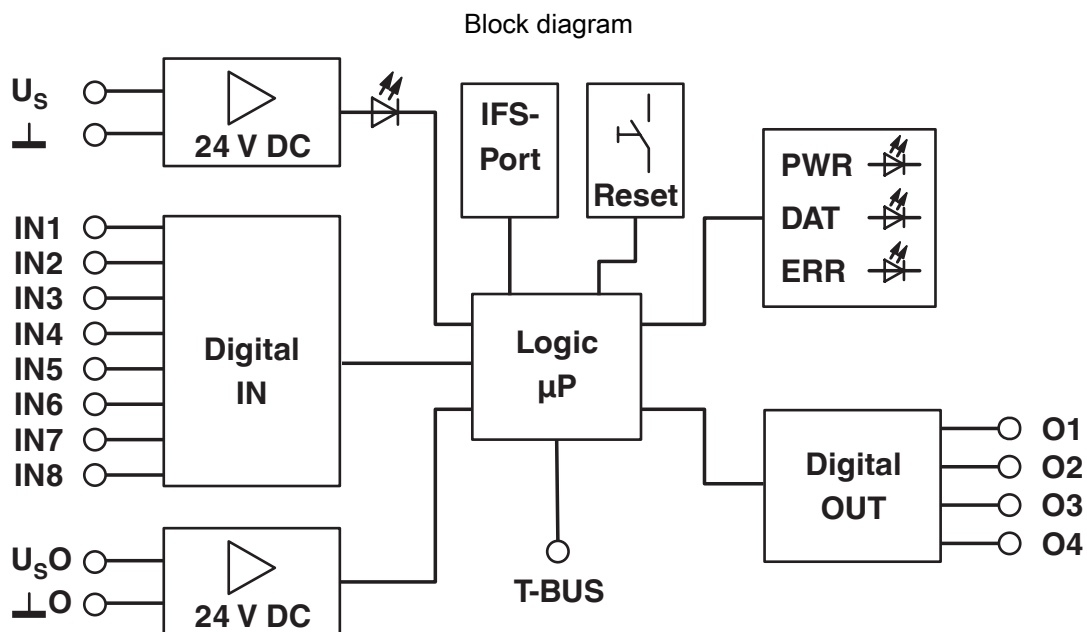
Approvals

	EAC
	Approval ID: RU C-DE.A*30.B.01082

	UL Listed
	Approval ID: FILE E 140324

	cUL Listed
	Approval ID: FILE E 140324

cULus Listed

Classifications

ECLASS

ECLASS-9.0	27242604
ECLASS-10.0.1	27242604
ECLASS-11.0	27242604

ETIM

ETIM 8.0	EC001599

UNSPSC

UNSPSC 21.0	32151600

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"

Mandatory Accessories

Data cable

Data cable - IFS-USB-DATACABLE - 2320500

https://www.phoenixcontact.com/us/products/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.

Accessories

Memory block

Memory block - IFS-CONFSTICK-L - 2901103

https://www.phoenixcontact.com/us/products/2901103

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

Memory block

Memory block - IFS-CONFSTICK - 2986122

https://www.phoenixcontact.com/us/products/2986122
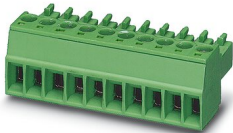
Multi-functional memory block for the INTERFACE systemf for easy storage and backup of the configuration.

PCB connector

PCB connector - MC 1,5/ 5-ST-3,81 - 1803604

https://www.phoenixcontact.com/us/products/1803604

PCB connector, nominal cross section: 1.5 mm^2, 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: 5, number of connections: 5, product range: MC 1,5/..-ST, pitch: 3.81 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, number of solder pins per potential: 1, plug-in system: COMBICON MC 1,5, locking: without, mounting: without, type of packaging: packed in cardboard

Printed-circuit board connector

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

https://www.phoenixcontact.com/us/products/1857919

PCB connector, nominal cross section: 1.5 mm^2, 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: 5, number of connections: 5, product range: IMC 1,5/..-ST, pitch: 3.81 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, number of solder pins per potential: 1, plug-in system: COMBICON MC 1,5, locking: without, mounting: without, type of packaging: packed in cardboard

Plug

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

https://www.phoenixcontact.com/us/products/1784729

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

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DIN rail bus connectors

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

https://www.phoenixcontact.com/us/products/2201937
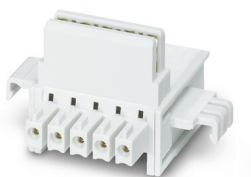
DIN rail connector, color: gray, nominal current: 8 A (parallel contacts), rated voltage (III/2): 125 V, number of positions: 5, pitch: 3.81 mm, mounting: DIN rail mounting, locking: without, mounting: without, type of packaging: packed in cardboard, Item with gold-plated contacts, bus connectors for connecting with electronics housings, 5 parallel contacts

Adapter

Adapter - IFS-BT-PROG-ADAPTER - 2905872

https://www.phoenixcontact.com/us/products/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.

Plastic label

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

https://www.phoenixcontact.com/us/products/0828790

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

Plastic label

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

https://www.phoenixcontact.com/us/products/0819301

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

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