

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



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
Sales key	C477
Product key	DK772Z
GTIN	4046356826051
Weight per piece (including packing)	175 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
Product family	CONTACTRON
Operating mode	100% operating factor

### Insulation characteristics

Overvoltage category	III
Pollution degree	2

### Input data

#### Digital

Number	8
Rated actuating voltage $U_C$	24 V DC $\pm$ 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	Push-in connection
Stripping length	10 mm
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 2.5 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

#### Input

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>

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Conductor cross-section AWG	24 ... 12
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## Output

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 2.5 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 connector
Number of connections	1
Number of positions	5

## Interfaces

### 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	22.5 mm
Height	99 mm
Depth	114.5 mm

## Material specifications

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

## Environmental and real-life conditions

### Ambient conditions

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

## Standards and regulations

Standards/regulations	EN 61131-2
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## Mounting

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

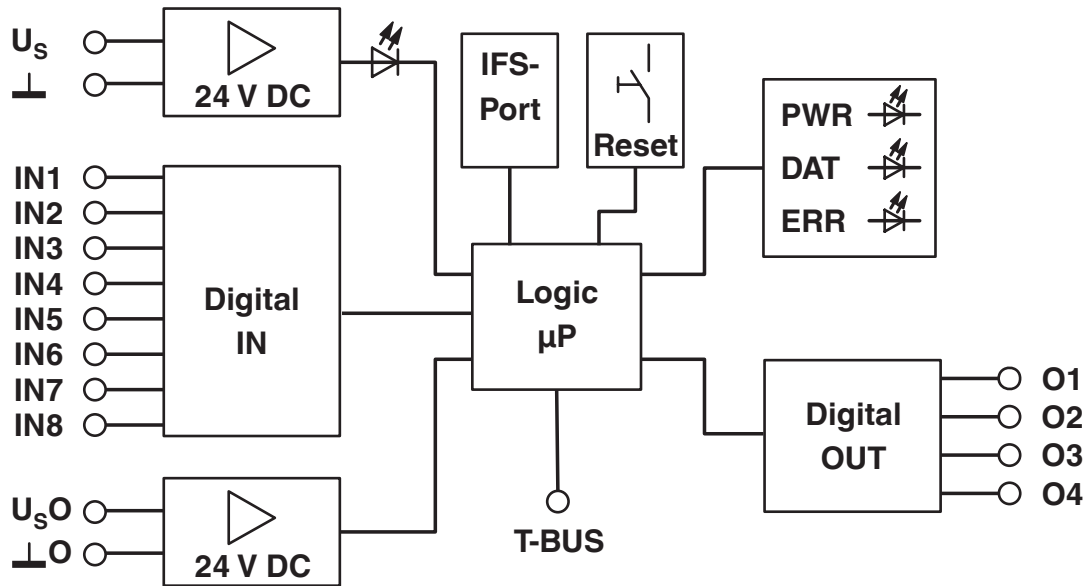
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## Drawings

Block diagram



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## Approvals

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**EAC**

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



**UL Listed**

Approval ID: E140324



**cUL Listed**

Approval ID: E140324

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## Classifications

### ECLASS

ECLASS-13.0	27242604
ECLASS-15.0	27242604

### ETIM

ETIM 10.0	EC001599
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### UNSPSC

UNSPSC 21.0	32151600
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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)
SCIP	f36182ec-6615-4e00-a646-7d5bfb384917

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