

# 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	CK772Z
Catalog page	Page 21 (C-5-2019)
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

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## Technical data

### Product properties

Product type	Extension module
Product family	CONTACTRON
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 $\pm 20$ %
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

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Conductor cross section rigid	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

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

## Environmental and real-life conditions

### Ambient conditions

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Degree of protection	IP20
Ambient temperature (operation)	-35 °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 61131-2
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## Mounting

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

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## Classifications

### ECLASS

ECLASS-11.0	27242604
ECLASS-12.0	27242604
ECLASS-13.0	27242604

### ETIM

ETIM 9.0	EC001599
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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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