

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



Key Commercial Data

| | |
|----------------------|--|
| Packing unit | 1 |
| GTIN |  |
| GTIN | 4046356826051 |
| Custom tariff number | 85389091 |

Technical data

Dimensions

| | |
|--------|----------|
| Width | 22.5 mm |
| Height | 99 mm |
| Depth | 114.5 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 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 |

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Technical data

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

| | |
|---------------------------|---|
| Designation | Switching outputs |
| Number | 4 |
| 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 |

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 | IFS interface |
| Serial transmission speed | 76.8 kbps |
| Connection method | DIN rail bus connectors |

Connection data

| | |
|----------------------------------|---|
| 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 | 24 ... 12 |

Connection data 2

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

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Technical data

Connection data 2

| | |
|---------------------|----|
| 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 |

Standards and Regulations

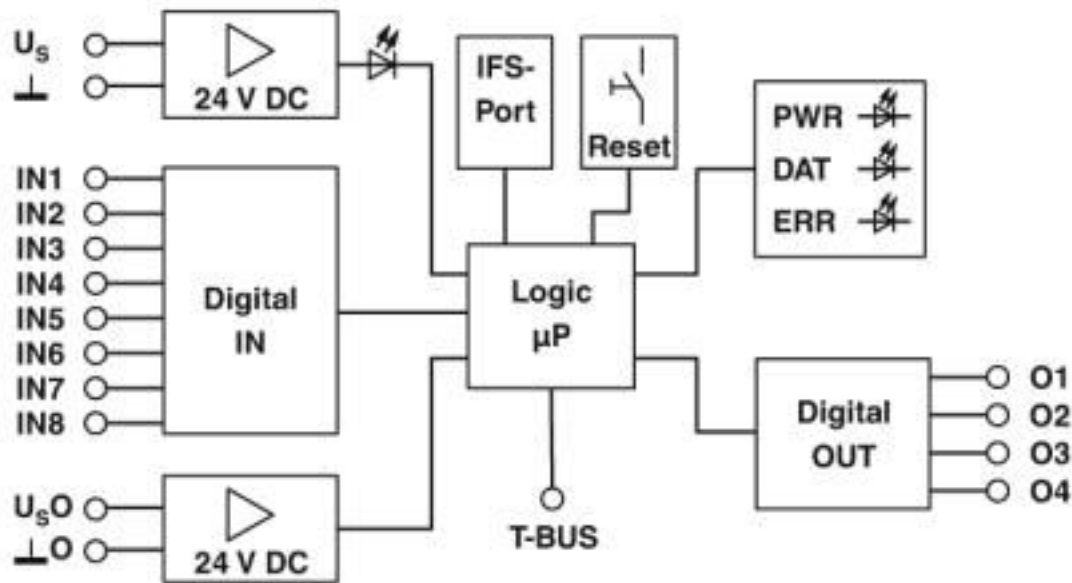
| | |
|-----------------------|------------|
| Standards/regulations | EN 61131-2 |
| Pollution degree | 2 |
| Overvoltage category | III |

Environmental Product Compliance

| | |
|------------|---|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings

Block diagram



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Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27242604 |
| eCl@ss 4.0 | 27378000 |
| eCl@ss 4.1 | 27378000 |
| eCl@ss 5.0 | 27379100 |
| eCl@ss 5.1 | 27379100 |
| eCl@ss 6.0 | 27242600 |
| eCl@ss 7.0 | 27242604 |
| eCl@ss 8.0 | 27242604 |
| eCl@ss 9.0 | 27242604 |

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC001599 |
| ETIM 4.0 | EC001599 |
| ETIM 5.0 | EC001599 |
| ETIM 6.0 | EC001599 |
| ETIM 7.0 | EC001599 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211915 |
| UNSPSC 7.0901 | 39121514 |
| UNSPSC 11 | 39121514 |
| UNSPSC 12.01 | 39121514 |
| UNSPSC 13.2 | 39131505 |
| 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

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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 |
| cULus Listed |  | | |

Accessories

Accessories

Connector set

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

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

Device marking

Plastic label - US-EMLP (15X5) - 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

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Accessories

Plastic label - UC-EMLP (15X5) - 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

DIN rail connector

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



DIN rail connector, number of positions: 5, pitch: 3.81 mm, color: gray

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.

Memory block - IFS-CONFSTICK - 2986122



Multi-functional memory block for the INTERFACE systemf for easy storage and backup of the configuration.

PCB plug

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Accessories

Printed-circuit board connector - MC 1,5/ 5-ST-3,81 - 1803604



PCB connector, nominal current: 8 A, rated voltage (III/2): 160 V, nominal cross section: 1.5 mm², 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, nominal cross section: 1.5 mm², number of positions: 5, pitch: 3.81 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin

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 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.