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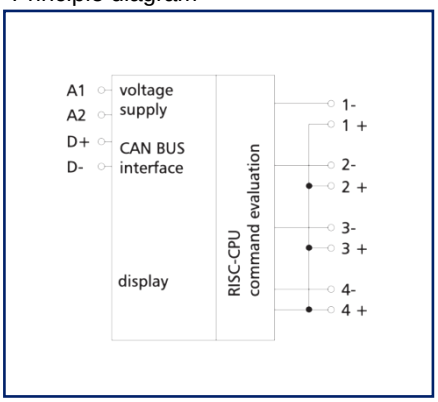
# Data sheet
## FDE 4 24 V AC/DC CAN



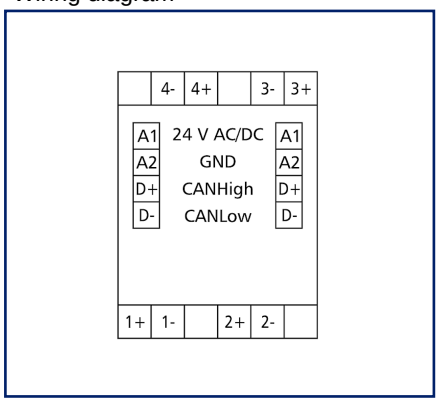
**P/N 1105751319**
**EAN 4250184122548**
2023/06/22
Version: D

## Illustrations

Principle diagram




Wiring diagram




See enlarged drawings at the end of document

## Product specification

CAN module with 4 digital inputs, which can be operated as contact or voltage inputs. It is suitable for detecting switch states, for example, of electrical limit switches on vent valves or auxiliary contacts of power contactors. The fieldbus module is an input module for universal use. It is controlled by means of the CAN bus. The module is addressed by means of an adjustable address, and the input states are transmitted in data bytes. If there is one (or more) relay output module(s) with the same address in the system, the respective outputs are switched.

- Connection with screw type terminal blocks

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## Technical Data

| | |
|---|---|
| **RS485 interface** | |
| Protocol | CAN |
| Address range | 00 - 99 |
| Bus interface | 2.0B passive (two wire bus) |
| Transmission parameters | |
| Transmission rate | min. 20 Kbit/s - max. 500 Kbit/s |
| Transmission rate default setting | 125 Kbit/s |
| **Supply** | |
| Operating voltage | 24 V AC/DC +/- 10 % (SELV) |
| Power consumption | |
| Power consumption AC (max.) | 63 mA |
| Power consumption DC (max.) | 21 mA |
| Duty cycle relative | 100 % |
| Recovery time | 550 ms |
| **Inputs** | |
| Voltage range | 0 V - 10 V DC |
| Resolution voltage input | 10 mV / digit |
| Error voltage input | approx. +/- 100 mV |
| Digital inputs | 4 |
| High signal detection | > 7 V DC |
| **Housing** | |
| Dimensions | |
| Dimension (W x H x D) | 35 mm x 69.3 mm x 60 mm |
| Dimension (W x H x D) | 1.378 in. x 2.728 in. x 2.362 in. |
| Weight | 83 g |
| Mounting style | Standard rail TH35 |
| Mounting position | any |
| Connection type | Screw type terminal blocks |
| Indicator | green, red and yellow LED |

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## Technical Data

| | |
|---|---|
| **Terminal blocks** | |
| Supply and bus | |
| Terminal block | 4-pole |
| Solid wire (AWG) | max. 1.5 mm² / max. 16 AWG |
| Stranded wire (AWG) | max. 1 mm² / max. 18 AWG |
| Wire diameter | max. 1.4 mm - min. 0.3 mm |
| Module connection | |
| Wire cross section solid | 0.34 mm² - 2.5 mm² / AWG 22-12 |
| Wire cross section multi | 0.25 mm² - 2.5 mm² / AWG 22-12 |
| Wire cross section with wire ferrule | 0.25 mm² - 2.5 mm² / AWG 22-12 |
| Screw torque (max.) | 0.5 Nm |
| Stripping length (min.) | 8 mm |
| Protection circuit | Polarity reversal protection for DC operating voltage |
| **Material** | |
| Material - Housing | Polyamid 6.6 V0 |
| Color | gray |
| Material - Terminal block | Polyamid 6.6 V0 |
| Material - Covers | Polycarbonat |
| **Protection category according to IEC 60529** | |
| Protection category - housing (acc. to IEC 60529) | IP40 |
| Protection category - terminal blocks (acc. to IEC 60529) | IP20 |
| **Temperature range** | |
| Operating | |
| Temperature - Operating °C | -5 °C - 55 °C |
| Temperature - Operating °F | 23 °F - 131 °F |
| Storage | |
| Temperature - Storage °C | -20 °C - 70 °C |
| Temperature - Storage °F | -4 °F - 158 °F |

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## Technical Data

| | |
|---|---|
| **Classifications** | |
| ETIM 7.0 | EC000688 |
| ETIM 8.0 | EC000688 |
| ETIM 9.0 | EC000688 |
| **Software and additional documents** | |
| Software and documentation | Further documentation is available for free download at www.metz-connect.com |

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## Accessories

| P/N | Designation |
|---|---|
| 110369 | Terminal block Type 259 |
| 110486 | HUB DC |
| 110561 | Power supply NG4 24 V DC |
| 31135104 | Typ 135 RIACON 135_3.5 |

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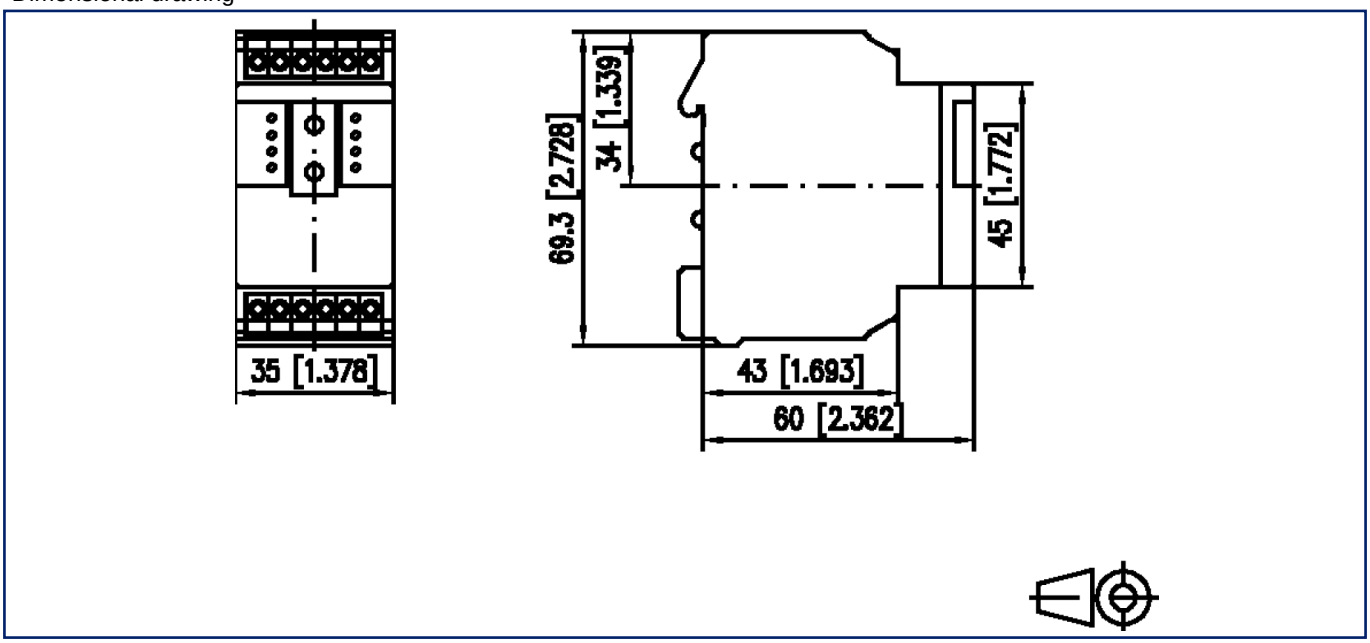
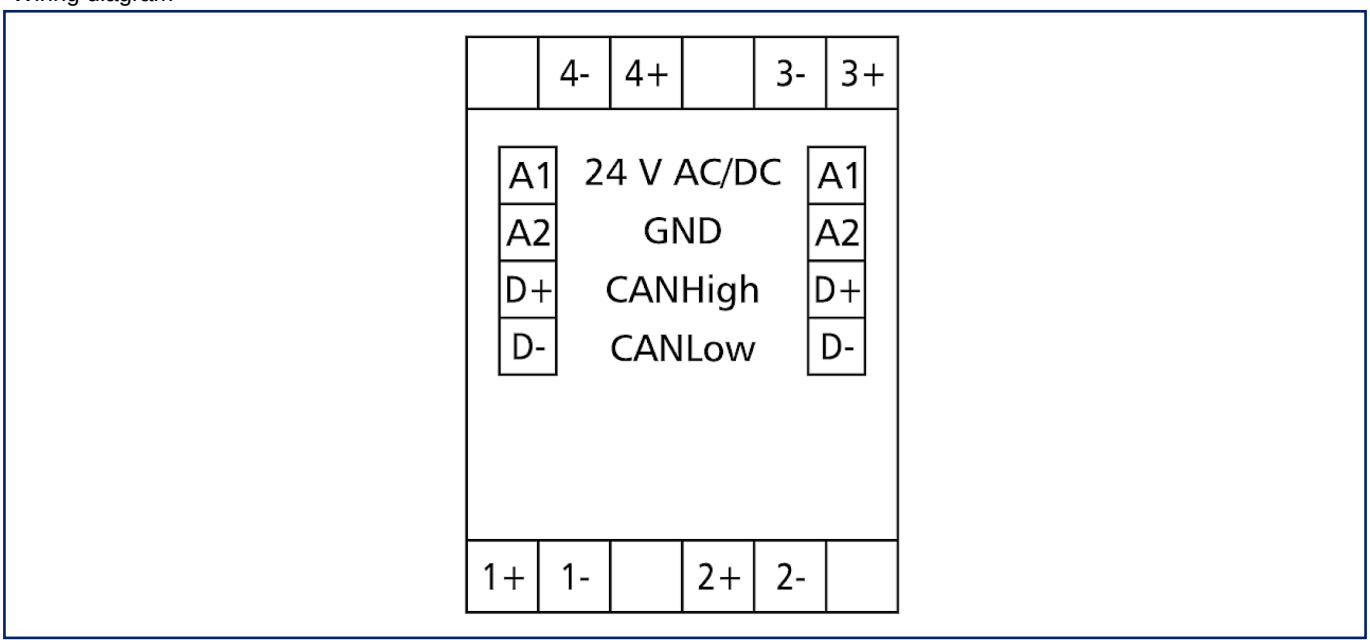
## Illustrations

Dimensional drawing




Wiring diagram



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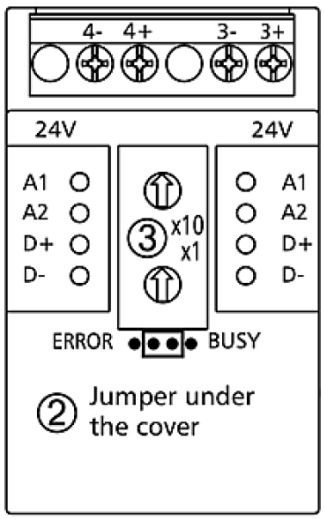
## Illustrations

Circuit diagram




Principle diagram