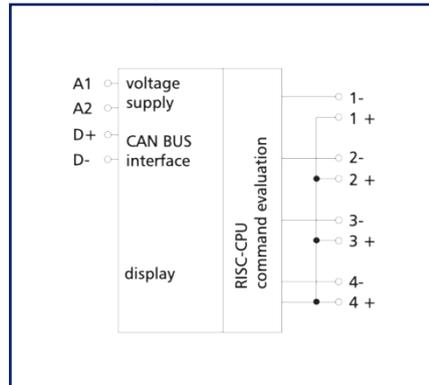# Data sheet
FDE-F 4 24 V AC/DC CAN
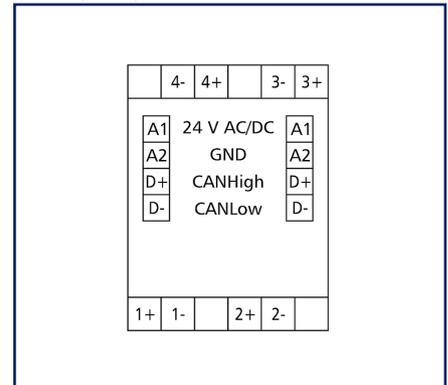
Illustrations

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 spring clamp terminal blocks (push-in)

Data sheet
FDE-F 4 24 V AC/DC CAN

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	Spring clamp terminal blocks
Indicator	green, red and yellow LED

Data sheet
FDE-F 4 24 V AC/DC CAN

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	min. 0.3 mm max. 1.4 mm

Module connection

Wire cross section solid	0.2 mm² - 2.5 mm² / AWG 24-14
Wire cross section multi	0.25 mm² - 2.5 mm² / AWG 24-12
Wire cross section with wire ferrule	0.25 mm² - 1.5 mm² / AWG 24-16
Stripping length (min.)	8 mm
Protection circuit	Polarity reversal protection for DC operating voltage

Material

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

Climatic Data

Operating

Temperature - Operating °C	-5 °C - 55 °C
Temperature - Operating °F	23 °F - 131 °F
Relative humidity	max. 85 % non-condensing

Storage

Temperature - Storage °C	-20 °C - 70 °C
Temperature - Storage °F	-4 °F - 158 °F

Data sheet
FDE-F 4 24 V AC/DC CAN

Technical Data

Classifications

ETIM 7.0	EC000688
ETIM 8.0	EC000688
ETIM 9.0	EC000688
ETIM 10.0	EC000688

Software and additional documents

Software and documentation	Further documentation is available for free download at www.metz-connect.com

Application note

This product is a standard product of METZ CONNECT. METZ CONNECT is not aware of the specific intended use of the goods by the Customer or any customers of the Customer. The Customer guarantees that it has fully and sufficiently tested the use of the goods and any product modifications, product changes or product enhancements with regard to the specific intended use in accordance with the state of the art or in any other way. At METZ CONNECT's request, the Customer shall submit and make available meaningful evidence (e.g. test and laboratory protocols, certifications, etc.).

Data sheet
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P/N
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EAN 4251394610108
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Accessories

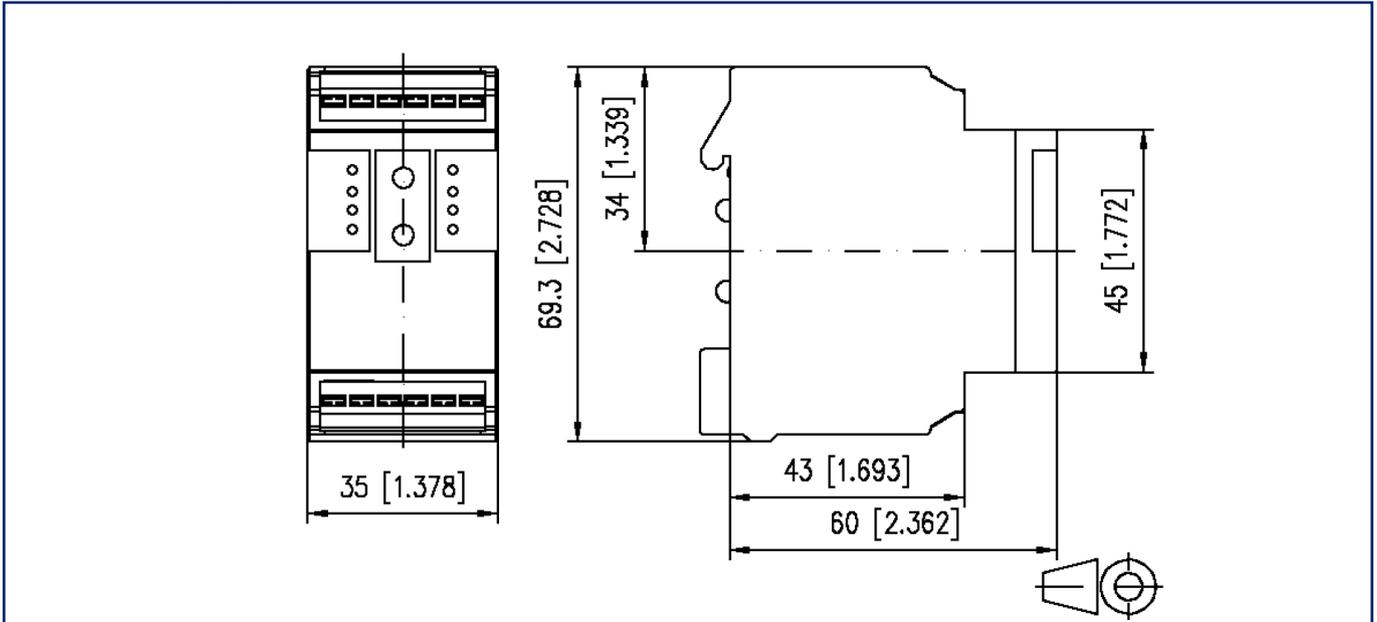| P/N	Designation
110369	Terminal block Type 259
11056170	Power supply NG4-F 24 V DC
31135104	Typ 135 RIACON 135_3.5

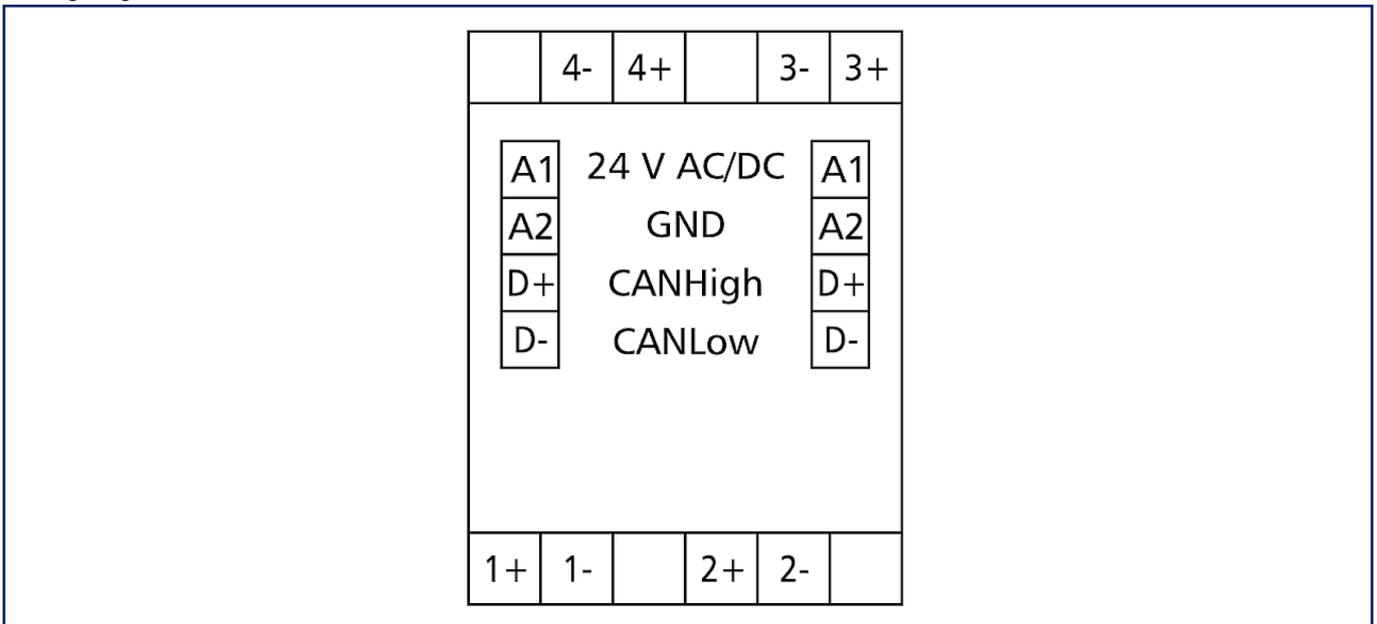**Data sheet**
FDE-F 4 24 V AC/DC CAN

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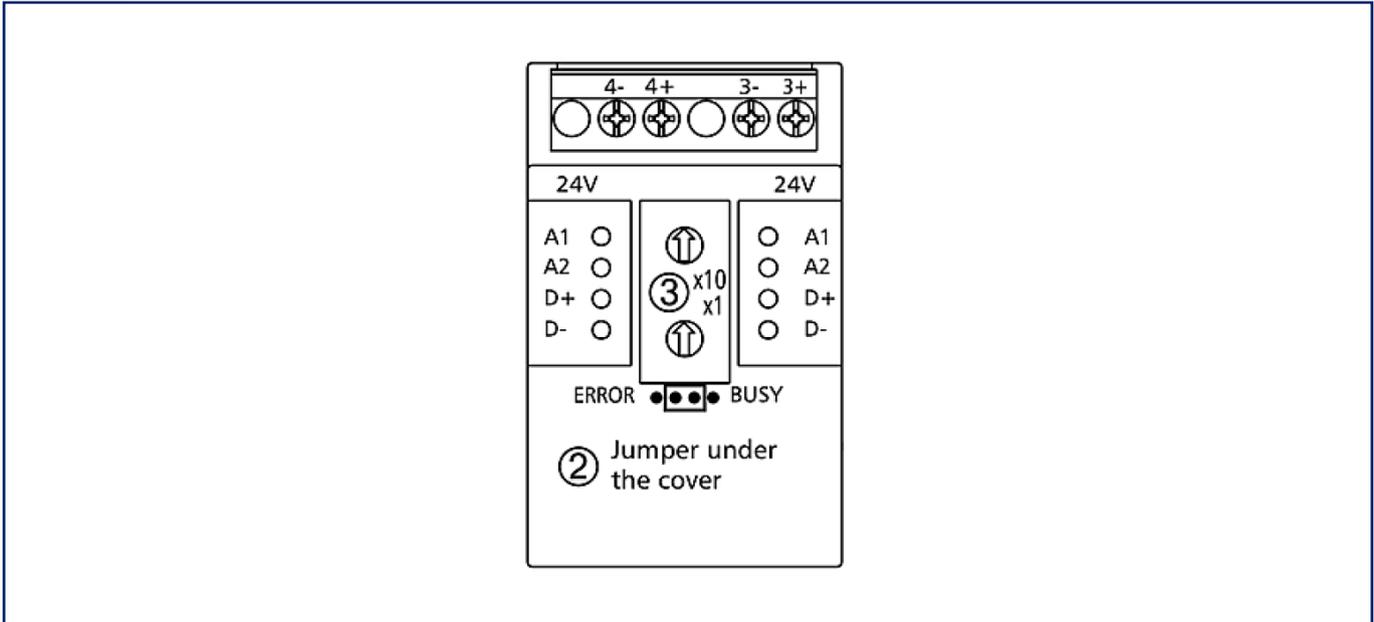Version: I

Illustrations

Dimensional drawing

Wiring diagram

FDE-F 4 24 V AC/DC CAN

Illustrations

Circuit diagram

Principle diagram