

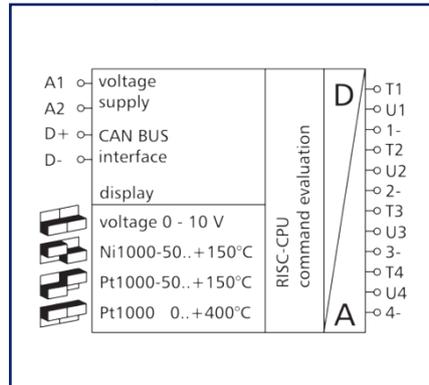
# Data sheet

## FAE 4 24 V AC/DC CAN

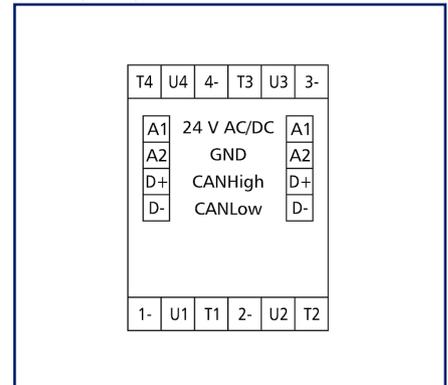
### Illustrations



Principle diagram



Wiring diagram



See enlarged drawings at the end of document

### Product specification

CAN module with 4 temperature and 4 voltage inputs. It is suitable for recording temperatures with Ni1000 or PT1000 sensors and voltages of, for example, electrical vent and mixing valves, valve positions, etc. 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) analog output module(s) with the same address in the system, the voltage measured there is issued at the respective output. Each input can be adjusted either from 0 to 10 V DC, to Ni1000 (-50 °C to 150 °C), PT1000 (-50 °C to 150 °C) or PT1000 (0 °C to 400 °C) by means of a DIP switch.

- Connection with screw type terminal blocks

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**Technical Data**

<b>RS485 interface</b>	
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
<b>Supply</b>	
Operating voltage	24 V AC/DC +/- 10 % (SELV)
Power consumption	
Power consumption AC (max.)	67 mA
Power consumption DC (max.)	24 mA
Duty cycle relative	100 %
Recovery time	550 ms
<b>Inputs</b>	
Analog inputs	4
Temperature range (-50 °C to 150 °C)	Ni1000 PT1000
Temperature range (0 °C to 400 °C)	PT1000
Voltage range	0 V - 10 V DC
Resolution voltage input	10 mV / digit
Error voltage input	approx. +/- 20 mV
<b>Housing</b>	
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	84 g
Mounting style	Standard rail TH35
Mounting position	any
Connection type	Screw type terminal blocks
Indicator	green and red LED

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**Technical Data**

**Terminal blocks**

Supply and bus

Terminal block	4-pole
Solid wire (AWG)	max. 1.5 mm <sup>2</sup> / max. 16 AWG
Stranded wire (AWG)	max. 1 mm <sup>2</sup> / max. 18 AWG
Wire diameter	min. 0.3 mm max. 1.4 mm

Module connection

Wire cross section solid	0.34 mm <sup>2</sup> - 2.5 mm <sup>2</sup> / AWG 22-12
Wire cross section multi	0.25 mm <sup>2</sup> - 2.5 mm <sup>2</sup> / AWG 22-12
Wire cross section with wire ferrule	0.25 mm <sup>2</sup> - 2.5 mm <sup>2</sup> / AWG 22-12
Screw torque (max.)	0.5 Nm
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

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## Technical Data

### Classifications

ETIM 7.0	EC000794
ETIM 8.0	EC000794
ETIM 9.0	EC000794
ETIM 10.0	EC000794

### Software and additional documents

Software and documentation Further documentation is available for free download at [www.metz-connect.com](http://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.).



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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



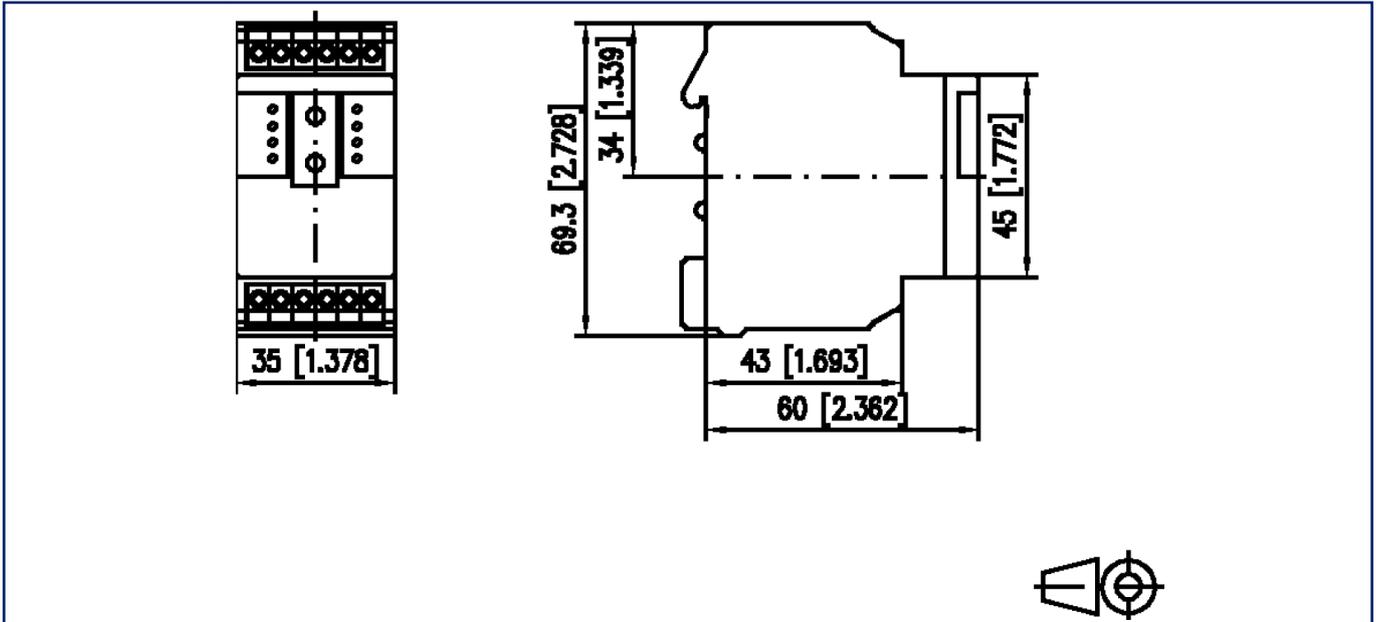
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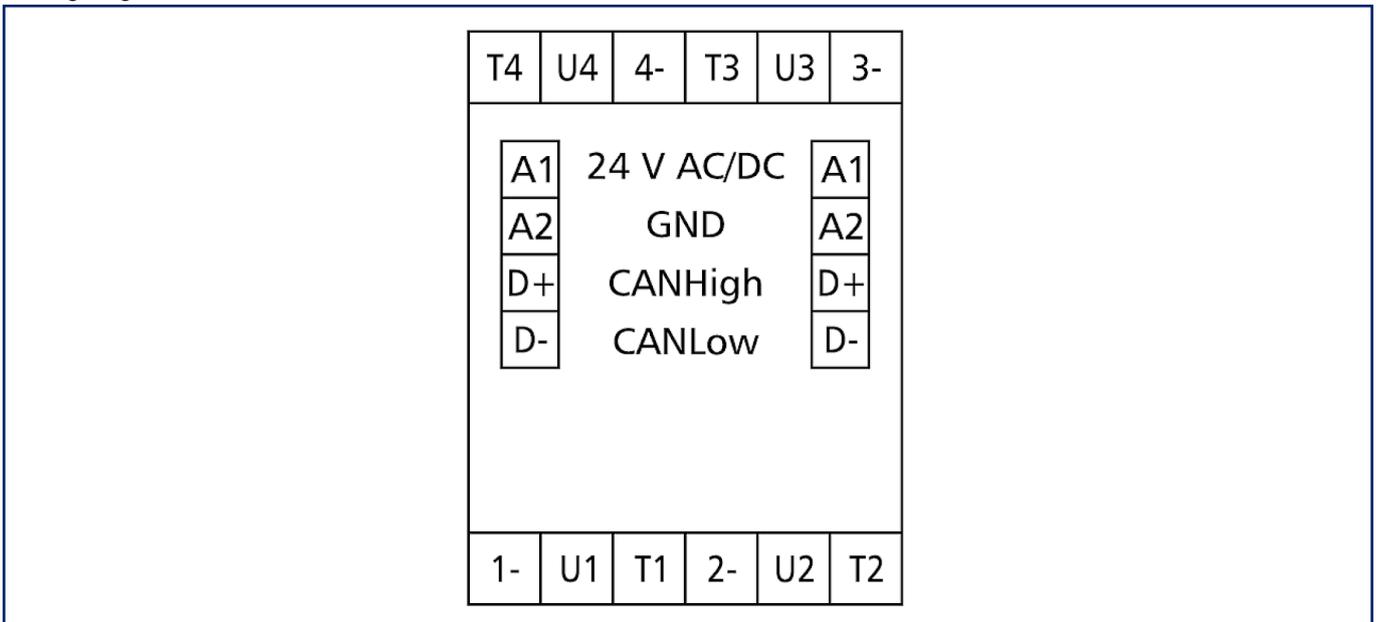
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Illustrations

Dimensional drawing



Wiring diagram



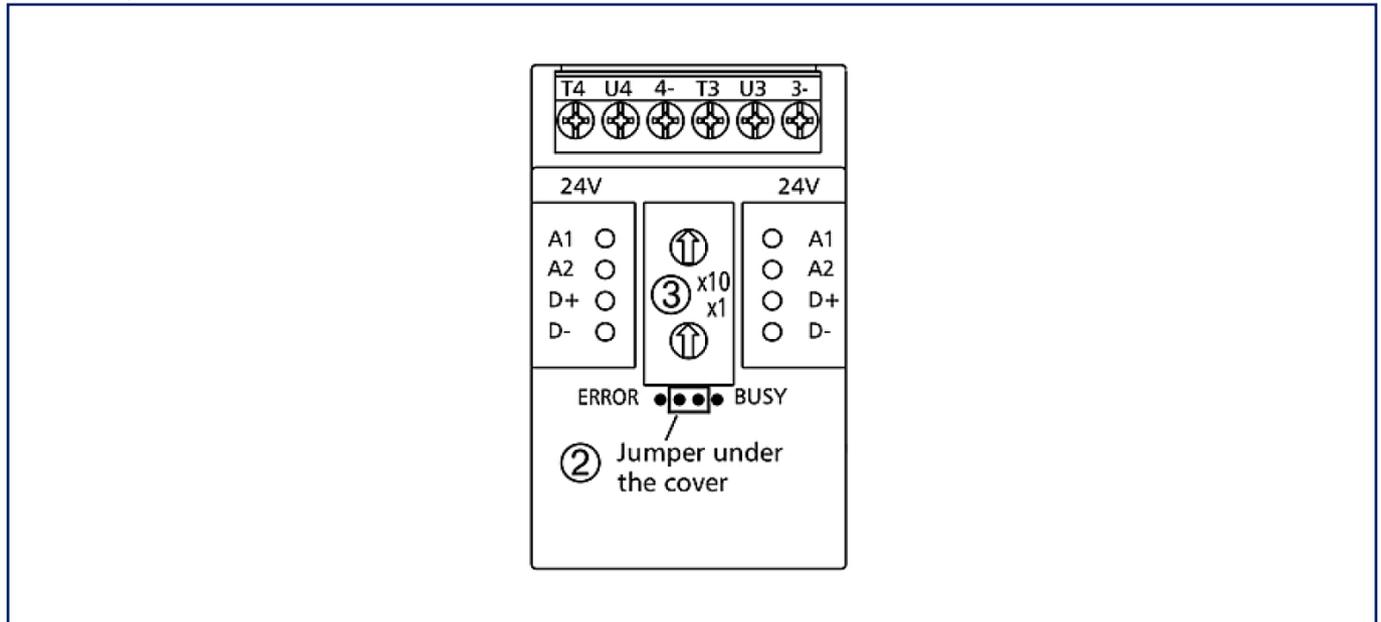
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**Illustrations**

Circuit diagram



Principle diagram

