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Pin connection

- CAN-Bus
- Analog input 0-3
- Error LED
- Bus LED
- RUN LED
- CAN address/ node-ID
- Local bus (CAN+ Power supply)
- Power supply
- Analog input 4-7
- Ribbon cable connection AI 0-7

Principle circuit diagram

8-channel analog input module

- PT100, PT1000, NI1000, TK5000, Poti. 0-3 kΩ
- configurable, single ended
- ribbon connector
- electrical isolation between the bus and the field side
- CANopen

- the CANopen analog input module processed PT100, PT1000, NI1000, TK5000 and Poti signals
- all inputs are configurable, offer the same mass and have a resolution of 16 bits
- all inputs are galvanically isolated from the supply voltage
- the CAN-Bus can be turned on by either using a plug on the side of the module or on the backplane
- other sensor types are on request

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Description

Description	Item no.
AM-16DI	AM-16DI

Accessories

designation system (plug marker)	on request
printed designation system (plug marker)	included
system terminal block (wire to ribbon cable)	TH-8AI-RTD
mounting rail bus system (gold)	250 mm, 500 mm, 750 mm

Certification

conformity marking	CE
CANopen	in preparation
RoHS	yes

Technical data

number of inputs	8
power supply	24 VDC
power input (system)	Ca. 100 mA
data	8 x 3 Byte input 4 x 1 Byte status/error
width x high x depth	45 x 113,6 x 117,2 mm
weight	0,21 kg
sensor RTD (configurable)	2- or 3-Leiter
resolution	0,1 °C (16 Bit)
temperature range RTDs	-50 °C … 200 °C
conversation time	50 ms / channel
measurement error	< ±0,5 K
measurement delay	3 s
ambient temperature (operation and storage)	-20 °C … 55 °C
permissible humidity (operation and storage)	5 % … 75 % (non-condensing)
degree of protection	IP20
mounting positon	any
wire cross-section	0,13 mm² … 2,5 mm²
wire cross-section (AWG)	26 … 14
mechanical tests	EN 60068-2-6/ IEC 60068-2-6
pull-off force	Ca. 18,4 N
type of connection	screw terminal
type of installation	terminal rail

Regulation

EMC	EN 60730-1:2012-10 EN 61000-6-3:2007-9 EN 61000-6-1:2007:10
low voltage directive	2006/95/EC