**am** systeme

be innovative

## Pin connection

Analog input 0-3

CAN-Bus

Error LED
Bus LED
RUN LED

AM-8AI-UI

CAN address/ node-ID

Local bus (CAN+ Power supply

-XS1

Ribbon cable connection AI 0-7

Analog input 4-7

Power supply

## Principle circuit diagram



AI0
.
.
.
AI7

A/D  Iso-lator

SF, BF1, RUN

µC

Local Bus

CAN

24V Bus

24V   3,3V

24V / GND

### 8-channel-analog input module

- 0-10 V, 0/4-20 mA
- configurable, single ended
- ribbon connector
- galvanically separated inputs
- CANopen

- the CANopen analog inputs module processed 0-10 V and 0/4-20 mA signals
- all inputs are configurable, offer the same mass and have a resolution of 14 bits
- the CAN-Bus can be turned on by either using a plug on the side of the module or on the backplane

## Description

| Description | Item no. |
|---|---|
| AM-8AI-UI | AM-8AI-UI |

## Accessories

| | |
|---|---|
| designation system (plug marker) | on request |
| printed designation system (plug marker) | included |
| system terminal block (wire to ribbon cable) | S-HER-TH-3-60/14 |
| 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 |
| voltage 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 | 22,5 x 113,6 x 117,2 mm |
| weight | 0,12 kg |
| input resistance (current) | 500 Ω |
| sensor | 2-wire |
| resolution U/I | 14 Bit |
| conversation time | 10 ms |
| measurement error | ±0,1 % |
| input resistance | > 60 kΩ |
| ambient temperature (operation and storage) | -20 °C … 55 °C |
| permissible humidity (operation and storage) | 5 % … 75 % (non-condensing) |
| degree of protection | IP20 |
| mounting position | 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 |

Reserve technical changes | 04.04.2016