

# 1-channel sensor acquisition / analogue signal

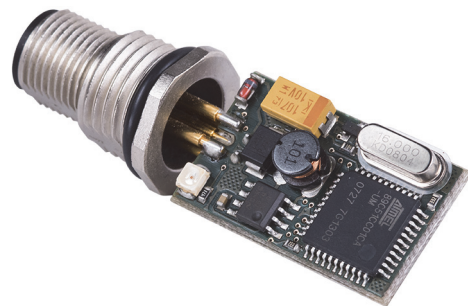
## μCAN.1.ai-SENSOR

### 1-channel sensor acquisition for standard analogue signals

The sensor module **μCAN.1.ai-SENSOR** can be joined with any sensor. It is designed for the acquisition of an analogue sensor signal.

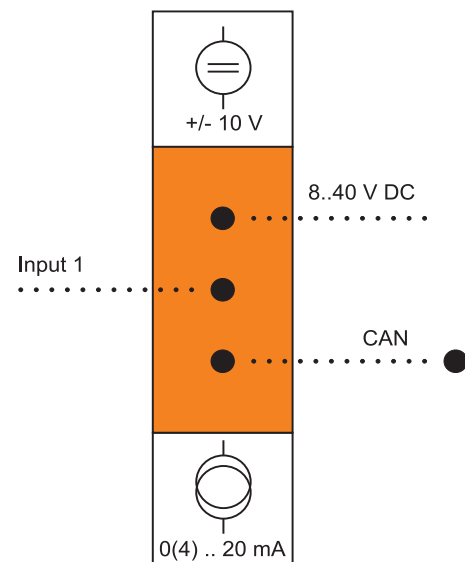
The **μCAN.1.ai-SENSOR** is integrated into the sensor head (diameter 18 mm). Sensor tolerances can be adjusted with the module already built in.

Sensor signals are linearized and supervised via the hardware.



### Features

- Acquisition of one analogue sensor signal with 16-bit resolution
- Direct connection of a CANopen standardised M12 circular connector possible
- Standard protocol: CANopen CiA 404
- Extended ambient temperature range of -40°C...+85°C



Technical Data	sensor acquisition $\mu$ CAN.1.ai-SENSOR
Number of channels	1
Power supply voltage	8...40 V DC, reverse polarity protected
Power consumption	max. 500mW
Operating temperature	-40°C...+ 85°C
Bit rate	50kBit/sec to 1MBit/sec
Protocol	CANopen CiA 404 / CAN 2.0A and 2.0B / others upon request
Number of PDO (CANopen)	2 transmit PDOs
Configuration	Bit rate and module address via LSS (with auto bitrate detection)
Status indicator	1 LED status information
EMC	EN 50082 compliant
Resolution / Sampling Rate	16-bit / 20ms
Signal type / Input error @23°C ambient temperature	+/-10V DC accuracy 0.01% fsd, input impedance 500 kOhm 0(4)..20mA accuracy 0.01% fsd, input impedance 50 Ohm
Bus connection	Designed for M12 plug-in 5-pole circular connectors (equipped with solder pads, integration of any other connector type possible)
Type	18 x 30 mm

Order Number	Description
13.50.011	$\mu$ CAN.1.ai-SENSOR 1-channel sensor acquisition module with CANopen to be integrated into sensors. Signal type +/- 10V DC. M12x1 plug-in circular connector included.
13.50.010	$\mu$ CAN.1.ai-SENSOR 1-channel sensor acquisition module with CANopen to be integrated into sensors. Signal type +/- 10V DC. Equipped with solder pads for connection of plug-in connectors.
13.60.006	$\mu$ CAN.1.ai-SENSOR 1-channel sensor acquisition module with CANopen to be integrated into sensors. Signal type 0(4)..20mA. Equipped with solder pads for connection of plug-in connectors.
13.60.007	$\mu$ CAN.1.ai-SENSOR 1-channel sensor acquisition module with CANopen to be integrated into sensors. Signal type 0(4)..20mA. M12x1 plug-in circular connector included.