

This analog input module processes standard 4–20 mA signals.  
 The input signal is electrically isolated and is transmitted with a resolution of 12 bits.  
 The internal system supply powers the module.  
 The input channels of the module are differential inputs.  
 The shield directly connects to the DIN-rail.

#### Technical data

Number of analog inputs	2
Total number of channels (module)	2
Signal type	Current
Signal type (current)	4 ... 20 mADC
Sensor connection	2 x (2-wire)
Input voltage (max.)	35 V
Signal characteristics	Differential
Resolution [bit]	12 bits
Input resistance (max.)	220 Ω
Data width	2 x 16-bit data; 2 x 8-bit control/status (optional)
Conversion time (typ.)	2 ms
Measurement error (reference temperature)	25 °C
Measurement error, deviation (max.) from the upper-range value	0.2 %
Temperature error (max.) of the upper-range value	0.01 %/K
Supply voltage (system)	5 VDC; via data contacts
Current consumption (5 V system supply)	70 mA
Isolation	500 V system/field
Indicators	LED (A, C) green: Function AI 1, AI 2; LED (B, D) red: Error AI 1, AI 2

#### Connection data

Connection technology: inputs/outputs	8 x CAGE CLAMP®
Connection type 1	Inputs/outputs
Solid conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG
Fine-stranded conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches

#### Physical data

Width	12 mm / 0.472 inches
Height	100 mm / 3.937 inches
Depth	69.8 mm / 2.748 inches
Depth from upper-edge of DIN-rail	62.6 mm / 2.465 inches

### Mechanical data

Mounting type	DIN-35 rail
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### Material data

Color	light gray
Housing material	Polycarbonate; polyamide 6.6
Fire load	1.034 MJ
Weight	49.8 g
Conformity marking	CE

### Environmental requirements

Ambient temperature (operation)	0 ... +55 °C
Ambient temperature (storage)	-40 ... +85 °C
Protection type	IP20
Pollution degree	2 per IEC 61131-2
Operating altitude	0 ... 2000 m / 0 ... 6562 ft
Mounting position	Horizontal left, horizontal right, horizontal up, horizontal down, vertical top and vertical bottom
Relative humidity (without condensation)	95 %
Vibration resistance	4g per IEC 60068-2-6
Shock resistance	15g per IEC 60068-2-27
EMC immunity to interference	per EN 61000-6-2, marine applications
EMC emission of interference	per EN 61000-6-4, marine applications
Exposure to pollutants	per IEC 60068-2-42 and IEC 60068-2-43
Permissible H <sub>2</sub> S contaminant concentration at a relative humidity 75 %	10 ppm
Permissible SO <sub>2</sub> contaminant concentration at a relative humidity 75 %	25 ppm

### Commercial data

Product Group	15 (I/O System)
eCl@ss 10.0	27-24-26-01
eCl@ss 9.0	27-24-26-01
ETIM 9.0	EC001596
ETIM 8.0	EC001596
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4045454483098
Customs tariff number	85389099990

### Environmental Product Compliance

CAS-No.	1303-86-2 1317-36-8 7439-92-1
REACH Candidate List Substance	Diboron trioxide Lead Lead monoxide
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	1589eb06-3c9b-4b2a-9a0e-406c4454ba2e
SCIP notification number (Belgium)	fa924dcf-cb4b-4cdb-ac35-5e702e51c59d
SCIP notification number (Bulgaria)	315379c7-bd29-4aad-a745-f5874086fee5
SCIP notification number (Czech Republic)	db96cd62-4e69-4788-a156-302cbc752581
SCIP notification number (Denmark)	f07fa11a-38ff-4450-a9f5-152ef5d7af19

## Environmental Product Compliance

SCIP notification number (Finland)	dc7be163-05be-475c-a971-585e300cf22b
SCIP notification number (France)	75be9dcb-37dd-4d89-a069-38e3b6b5e644
SCIP notification number (Germany)	034c0612-dfd3-4fca-97ce-58647c7ff2dd
SCIP notification number (Hungary)	7d105789-a273-4d9a-9550-cec3e352ebc3
SCIP notification number (Italy)	6097cd19-738c-4de5-9308-2e2227ad40e3
SCIP notification number (Netherlands)	7a0c925b-cdf3-4cf0-bb75-7c8bfa9c77d5
SCIP notification number (Poland)	1d1f1fed-eae9-4ff8-b318-b885ec086467
SCIP notification number (Romania)	47272d0a-b3f2-46f0-a2ec-52a518c6786f
SCIP notification number (Sweden)	90a55879-0afb-49d3-a230-b02a129ba1b0