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Inline analog input terminal, complete with accessories (connector plug and labeling field), 8 inputs, 0 - 20 mA, 4 - 20 mA, ±20 mA, 0 - 10 V, ±10 V, (additionally 0 - 40 mA, ±40 mA, 0 - 5 V, ±5 V, 0 - 25 V, ±25 V, 0 - 50 V), 2-wire connection technology

#### **Product Description**

The analog Inline input terminals are suited for connecting conventional sensors for the acquisition of current and voltage signals. Particular features of the modules are:

- High accuracy of measurement
- Extremely rapid acquisition of measurement values
- Excellent noise suppression and common mode rejection, and
- Measurement value acquisition with a resolution of 16 bits

It goes without saying that you also have advantages in handling with the analog Inline input terminals, such as multi-wire connection or the automatic contact with the grounding conductor when the terminal is snapped onto the DIN rail.

The Inline terminals can be labeled using hinged labeling fields. The fields have insert cards that can be labeled individually to suit the application. Additionally, there is the proven ZBFM-6... Zack strip for labeling the terminal points.

#### **Product Features**

- High measuring accuracy
- Excellent interference suppression and common mode rejection
- ☑ Integrated short-circuit-proof sensor supply
- Overload-protected current inputs



### **Key Commercial Data**

Packing unit	1 pc
Weight per Piece (excluding packing)	251.7 g
Custom tariff number	85389091
Country of origin	Germany

### Technical data

#### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download
Ounization restriction	area

### **Dimensions**



# Technical data

### Dimensions

Width	48.8 mm
Height	136.8 mm
Depth	71.5 mm
Note on dimensions	Housing dimensions

### Ambient conditions

Ambient temperature (operation)	-25 °C 55 °C
Ambient temperature (storage/transport)	-25 °C 85 °C
Permissible humidity (operation)	10 % 95 % (according to DIN EN 61131-2)
Permissible humidity (storage/transport)	10 % 95 % (according to DIN EN 61131-2)
Air pressure (operation)	70 kPa 106 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	70 kPa 106 kPa (up to 3000 m above sea level)
Degree of protection	IP20

#### General

Net weight	213 g
Note on weight specifications	with connectors
Mounting type	DIN rail
Protection class	III, IEC 61140, EN 61140, VDE 0140-1
Test section	5 V supply, incoming remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min
	5 V supply, outgoing remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min
	7.5 V supply (bus logic), 24 V supply U <sub>ANA</sub> / I/O 500 V AC 50 Hz 1 min
	7.5 V supply (bus logic), 24 V supply $\rm U_{ANA}$ /functional earth ground 500 V AC 50 Hz 1 min
	I/O / functional earth ground 500 V AC 50 Hz 1 min

### Interfaces

Fieldbus system	Lokalbus
Designation	Inline local bus
Connection method	Inline data jumper
Transmission speed	500 kBit/s
Transmission physics	Copper

### Inline potentials

Communications power U <sub>L</sub>	7.5 V DC (via voltage jumper)
Current consumption from U <sub>L</sub>	max. 55 mA
	typ. 48 mA
I/O supply voltage U <sub>ANA</sub>	24 V DC



# Technical data

### Inline potentials

Current consumption from U <sub>ANA</sub>	max. 35 mA
	typ. 24 mA

### Analog inputs

Number of inputs	max. 8 (single ended)
Connection method	2-wire (shielded)
Input name	Analog inputs
A/D conversion time	approx. 10 μs
Limit frequency (3 dB)	3.5 kHz
Data formats	IL, IB ST, IB RT, standardized representation, PIO format
Measuring principle	Successive approximation
Measured value resolution	16 bits (15 bits + sign bit)
Measured value representation	16 bit two's complement
Current input signal	0 mA 20 mA
	4 mA 20 mA
	-20 mA 20 mA
	0 mA 40 mA
	-40 mA 40 mA
Voltage input signal	0 V 5 V
	-5 V 5 V
	0 V 10 V
	-10 V 10 V
	0 V 25 V
	-25 V 25 V
	0 V 50 V
Number of inputs	8 (single-ended voltage inputs)
Voltage input signal	0 V 5 V
	-5 V 5 V
	0 V 10 V
	-10 V 10 V
	0 V 25 V
	-25 V 25 V
	0 V 50 V
Input resistance of voltage input	> 240 kΩ 0.01 %
Number of inputs	8 (single-ended current inputs)
Current input signal	0 mA 20 mA
	4 mA 20 mA
	-20 mA 20 mA



### Technical data

### Analog inputs

	0 mA 40 mA
	-40 mA 40 mA
Input resistance current input	25 Ω 0.01 %

## Classifications

### eCl@ss

eCl@ss 4.0	27250303
eCl@ss 4.1	27250303
eCl@ss 5.0	27250303
eCl@ss 5.1	27242601
eCl@ss 6.0	27242601
eCl@ss 7.0	27242601
eCl@ss 8.0	27242601

### **ETIM**

ETIM 2.0	EC001431
ETIM 3.0	EC001596
ETIM 4.0	EC001596
ETIM 5.0	EC001596

### UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

## Approvals

## Approvals

Approvals

UL Recognized / cUL Recognized / LR / GL / BV / DNV / ABS / RINA / GL-SW / BSH / BSH / EAC / cULus Recognized / GL

Ex Approvals

ATEX



Approvals
Approvals submitted
Approval details
UL Recognized <b>\$\)</b>
cUL Recognized 51
LR
GL
BV
DANY.
DNV
ABS
RINA
GL-SW
GL-5W
взн
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EAC
cULus Recognized c

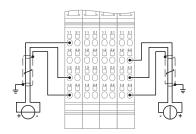


# Approvals

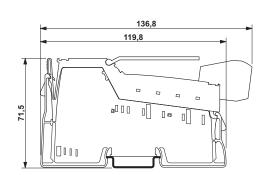
GL

## Drawings

## Connection diagram



### Dimensional drawing



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