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Inline analog input terminal, complete with accessories (connector plug and labeling field), 2 inputs, 0 - 20 mA, 4 - 20 mA, ±20 mA, 0 - 10 V, ±10 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	11
Weight per Piece (excluding packing)	93.8 GRM
Custom tariff number	85389091
Country of origin	Germany

Technical data

Note:

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

Dimensions



Technical data

Dimensions

Width	12.2 mm
Height	136.8 mm
Depth	71.5 mm

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

Weight	69 g
Note on weight specifications	With connector
Mounting type	DIN rail
Operating mode	Process data operation with 2 words
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_{ANA} / I/O 500 V AC 50 Hz 1 min
	7.5 V supply (bus logic), 24 V supply $U_{\mbox{\scriptsize ANA}}$ /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
Name	Inline local bus
Connection method	Inline data jumper
Transmission speed	500 kBit/s
Transmission physics	Copper

Inline potentials

Communications power UL	7.5 V DC (via voltage jumper)
Current consumption from U_L	max. 60 mA
	typ. 45 mA
Current consumption from U _S	0 A DC



Technical data

Inline potentials

I/O supply voltage U _{ANA}	24 V DC
Current consumption from U _{ANA}	max. 18 mA
	typ. 13 mA

Analog inputs

max. 2 (single ended)
Inline shield connector
2-wire (shielded)
Analog inputs
approx. 120 µs (per channel)
16 bit
40 Hz
IL, IB ST, IB RT, standardized display
16 bits (15 bits + sign bit)
16 bits (15 bits + sign bit)
0 mA 20 mA
4 mA 20 mA
-20 mA 20 mA
0 V 10 V
-10 V 10 V
> 220 kΩ
2 (single-ended voltage inputs)
0 V 10 V
-10 V 10 V
> 220 kΩ
2 (single-ended current inputs)
0 mA 20 mA
4 mA 20 mA
-20 mA 20 mA
50 Ω

Classifications

eCl@ss

eCl@ss 4.0	27250303
eCl@ss 4.1	27250303
eCl@ss 5.0	27250303



Classifications

eCl@ss

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

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

Ex Approvals

UL Listed / cUL Listed / UL Listed / cUL Listed / ATEX / cULus Listed

Approvals submitted

Approval details

UL Recognized 🔊

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Approvals

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Approvals

GL		
BV		
DNV		
ABS		
GL-SW		
BSH		
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GL		
Accessories		

Accessories

Labeling panel

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm

Plug

Inline shield connector - IB IL SCN 6-SHIELD-TWIN - 2740245



Inline shield connector



Accessories

Inline shield connector - IB IL SCN-6 SHIELD - 2726353



Inline shield connector

Terminal marking

Insert strip - ESL 62X10 - 0809492



Insert strip, Sheet, white, Unlabeled, Can be labeled with: Office printing systems, Plotter: Laser printer, Mounting type: Insert, Lettering field: 62 x 10 mm

Drawings



Dimensioned drawing







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