

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)



Inline analog input terminal, complete with accessories (connector 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 area



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

Mounting type	DIN rail
Net weight	213 g
Note on weight specifications	with connectors
Operating mode	Process data operation with 2 words
Diagnostics messages	Failure of the power supply at U _{ANA}
	Peripheral fault Error message in the process data
	User error Error message in the process data

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 _L	7.5 V DC (via voltage jumper)
Current consumption from U _L	max. 55 mA
	typ. 48 mA
I/O supply voltage U _{ANA}	24 V DC
Current consumption from U _{ANA}	max. 35 mA
	typ. 24 mA

Analog inputs

Description of the input	Single-ended inputs, voltage or current



Technical data

Analog inputs

Analog inputs 8
8
2-wire (shielded)
арргох. 10 µs
16 bit
3.5 kHz
IL, IB ST, IB RT, standardized representation, PIO format
Successive approximation
16 bits (15 bits + sign bit)
16 bit two's complement
0 mA 20 mA
4 mA 20 mA
-20 mA 20 mA
0 mA 40 mA
-40 mA 40 mA
25 Ω 0.01 %
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
> 240 kΩ 0.01 %

Standards and Regulations

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 $\rm U_{ANA}$ /functional earth ground 500 V AC 50 Hz 1 min.
	I/O / functional earth ground 500 V AC 50 Hz 1 min.
Connection in acc. with standard	CUL
Protection class	III, IEC 61140, EN 61140, VDE 0140-1



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 / BV / ABS / RINA / BSH / BSH / EAC / cULus Recognized

Ex Approvals

ATEX

Approvals submitted

Approval details



Approvals

UL Recognized 3	
cUL Recognized ••••	
LR	
BV	
ABS	
RINA	
BSH	
BSH	
EAC	
cULus Recognized C S Us	

Accessories

Accessories

Labeling panel

Labeling field - IB IL FIELD 8 - 2727515

Labeling field, width: 48.8 mm





Accessories

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

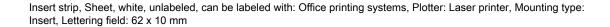
Terminal marking

Insert strip - ESL 62X46 - 0809502



Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems, Plotter: Laser printer, Mounting type: Insert, Lettering field: 62 x 46 mm



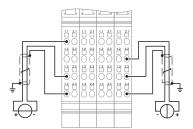




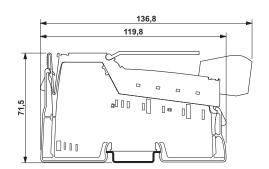
Drawings



Connection diagram



Dimensional drawing



Phoenix Contact 2016 © - all rights reserved http://www.phoenixcontact.com

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Phoenix Contact: 2861412