

IB IL EX-IS AIO 4/EF-PAC - Inline terminal



2869912

<https://www.phoenixcontact.com/us/products/2869912>

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 documentation. Our general terms of use for downloads are valid.

Inline intrinsically safe analog I/O terminal, 4 configurable input/output channels, complete with accessories



Your advantages

- Fieldbus-independent diagnostics using FDT/DTM technology
- Module-based electrical isolation
- Output: 0/4 mA ... 20 mA
- Input: 0 ... 10 V, 0/4 ... 20 mA
- 4 configurable I/O channels
- Single-channel diagnostics

Commercial data

Item number	2869912
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR01
Product key	DRI1E7
GTIN	4046356470216
Weight per piece (including packing)	339.9 g
Weight per piece (excluding packing)	222 g
Customs tariff number	85389099
Country of origin	US

IB IL EX-IS AIO 4/EF-PAC - Inline terminal

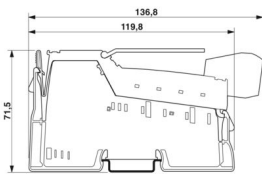


2869912

<https://www.phoenixcontact.com/us/products/2869912>

Technical data

Dimensions

Dimensional drawing	
Width	48.8 mm
Height	136.8 mm
Depth	71.5 mm

Notes

Utilization restriction	
CCCex note	Use in potentially explosive areas is not permitted in China.

Material specifications

Color	blue
-------	------

Interfaces

Inline local bus	
Connection method	Inline data jumper
Transmission speed	500 kbps

Input data

Analog:	
Input name	Analog inputs
Number of inputs	4
A/D converter resolution	16 bit (15 bit + sign bit)
Connection method	Inline shield connector
Connection technology	2-, 3-conductor
Current input signal	0 mA ... 20 mA 4 mA ... 20 mA
Voltage input signal	0 V DC ... 10 V DC
Data formats	IB IL, standardized representation, S7 compatible
Protective circuit	Polarity protection, surge protection

Analog: Voltage inputs	
Voltage input signal	0 V ... 10 V

Analog:	
---------	--

IB IL EX-IS AIO 4/EF-PAC - Inline terminal



2869912

<https://www.phoenixcontact.com/us/products/2869912>

Current input signal	0 mA ... 20 mA
	4 mA ... 20 mA

Output data

Analog:

Connection method	Inline shield connector
Connection technology	2-conductor
Number of outputs	4 (Can be configured as input or output)
Protective circuit	Polarity protection, surge protection
Data formats	IB IL, standardized representation, S7 compatible
Current output signal	0 mA ... 20 mA
	4 mA ... 20 mA
Load/output load current output	500 Ω

Product properties

Product type	I/O component
Type	modular
	Inline

Electrical properties

Potentials

Power consumption	4.7 W (per channel)
-------------------	---------------------

Potentials: Communications power (U_L)

Supply voltage	5 V DC (via voltage jumper)
Current draw	max. 50 mA

Potentials:

Supply voltage	28 V DC
Current draw	max. 187 mA

Connection data

Conductor connection

Connection method	Spring-cage connection
Conductor cross-section rigid	0.08 mm ² ... 1.5 mm ²
Conductor cross-section flexible	0.08 mm ² ... 1.5 mm ²
Conductor cross-section AWG	28 ... 16
Stripping length	8 mm
Connection method	Spring-cage connection
Conductor cross-section, rigid	0.08 mm ² ... 1.5 mm ²
Conductor cross-section, flexible	0.08 mm ² ... 1.5 mm ²
Conductor cross-section AWG	28 ... 16
Stripping length	8 mm

IB IL EX-IS AIO 4/EF-PAC - Inline terminal



2869912

<https://www.phoenixcontact.com/us/products/2869912>

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 60 °C
Degree of protection	IP20
Air pressure (operation)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Permissible humidity (operation)	10 % ... 95 % (according to DIN EN 61131-2)

Approvals

Ex data

ATEX	Ex II 3(1)GD Ex ec [ia Ga Da] IIC T4 Gc Sira 09ATEX2339X
IECEX	Ex ec [ia Ga Da] IIC T4 Gc IECEX SIR 10.0033X
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D

Mounting

Mounting type	DIN rail mounting
---------------	-------------------

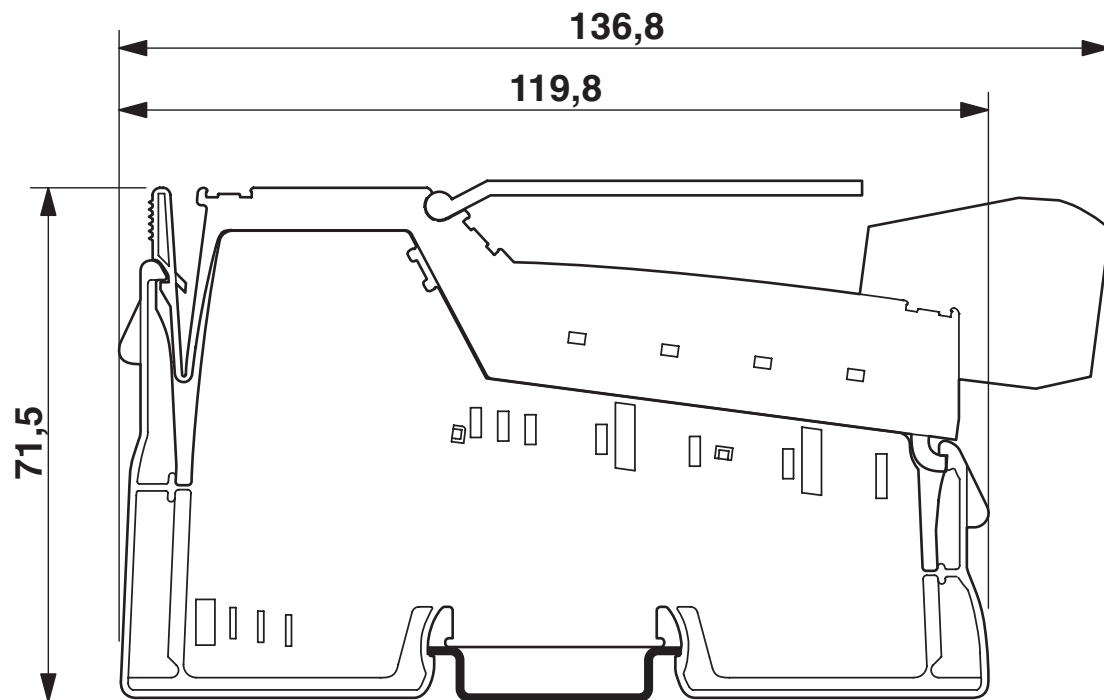
Ex data

Safety data

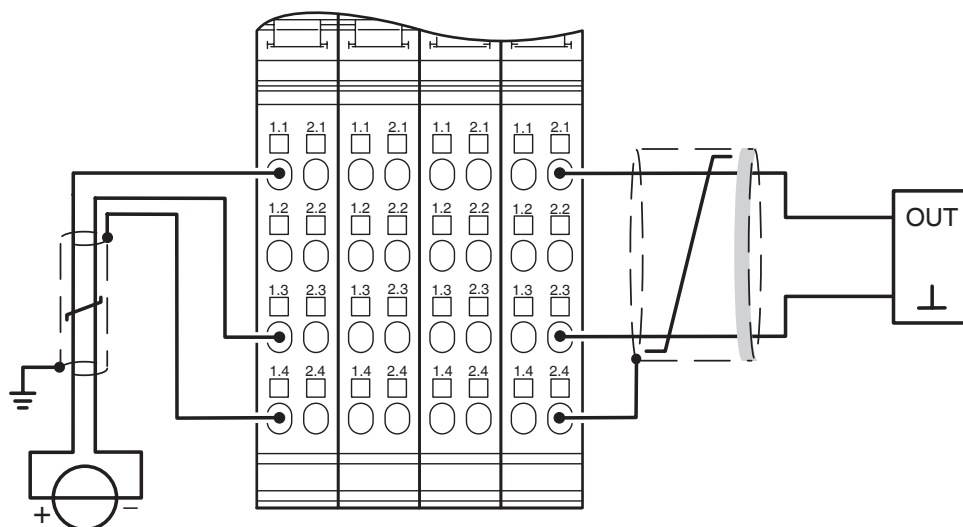
Max. output voltage U_o	max. 28 V DC (Output)
	max. 28 V DC (Input)
Max. output current I_o	max. 108 mA (Output)
	max. 108 mA (Input)
Max. output power P_o	max. 750 mW (Output)
	max. 750 mW (Input)
IIC (A, B) (Output): Max. external inductivity L_o / Max. external capacitance C_o	1.015 mH / 0.082 μ F
IIB, [IIIC, IIIB] (C, E, F, G) (Output): Max. external inductivity L_o / Max. external capacitance C_o	3.045 mH / 0.649 μ F
IIA (D) (Output): Max. external inductivity L_o / Max. external capacitance C_o	8.12 mH / 2.149 μ F
IIC (A, B) (Input): Max. external inductivity L_o / Max. external capacitance C_o	1.015 mH / 0.082 μ F
IIB, [IIIC, IIIB] (C, E, F, G) (Input): Max. external inductivity L_o / Max. external capacitance C_o	3.045 mH / 0.649 μ F
IIA (D) (Input): Max. external inductivity L_o / Max. external capacitance C_o	8.12 mH / 2.149 μ F

Drawings

Dimensional drawing



Connection diagram



IB IL EX-IS AIO 4/EF-PAC - Inline terminal



2869912

<https://www.phoenixcontact.com/us/products/2869912>

Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2869912>



ATEX

Approval ID: Sira 09ATEX2339X

IB IL EX-IS AIO 4/EF-PAC - Inline terminal



2869912

<https://www.phoenixcontact.com/us/products/2869912>

Classifications

ECLASS

ECLASS-13.0	27242601
-------------	----------

ETIM

ETIM 8.0	EC001596
----------	----------

UNSPSC

UNSPSC 21.0	32151600
-------------	----------

Environmental product compliance

China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

Phoenix Contact 2025 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com