

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



2869912

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

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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

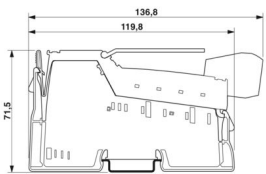
Item number	2869912
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR01
Product key	DRI1E7
GTIN	4046356470216
Weight per piece (including packing)	339.9 g
Weight per piece (excluding packing)	222 g
Customs tariff number	85389099
Country of origin	US

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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.
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Material specifications

Color	blue
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Interfaces

Inline local bus

Connection method	Inline data jumper
Transmission speed	500 kbps

Input data

Analog:

Input name	Analog inputs
Number of inputs	4
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
A/D converter resolution	16 bit (15 bit + sign bit)
Data formats	IB IL, standardized representation, S7 compatible
Protective circuit	Polarity protection, surge protection

Analog: Voltage inputs

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

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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)
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Potentials: Communications power (U_L)

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

Potentials: U_{EX} supply to I/O terminals

Supply voltage	28 V DC
Current draw	max. 187 mA

Connection data

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

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)

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Ambient temperature (storage/transport)	-25 °C ... 70 °C
Permissible humidity (operation)	10 % ... 95 % (according to DIN EN 61131-2)

Approvals

Ex data

ATEX	⊕ 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
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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

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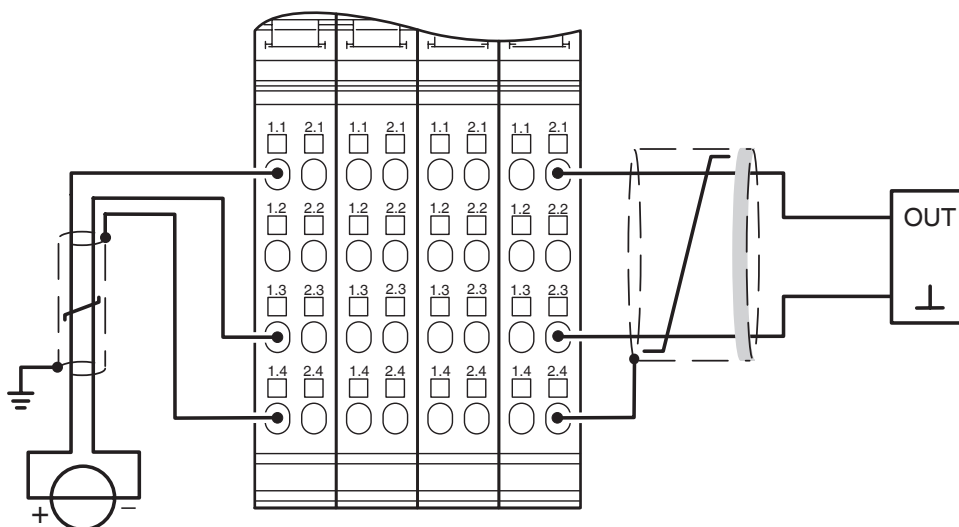
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Drawings

Dimensional drawing



Connection diagram



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Approvals

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ATEX

Approval ID: Sira 09ATEX2339X

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Classifications

ECLASS

ECLASS-13.0

27242601

UNSPSC

UNSPSC 21.0

32151600

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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%
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