

# IB IL EX-IS DIO 4/NAM-PAC - Inline terminal



2869911

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

## Your advantages

- NAMUR sensors supported (EN 60947-5-6)
- 4 configurable I/O channels
- Single-channel diagnostics
- 8.2 V sensor supply

## Commercial data

Item number	2869911
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR01
Product key	DRI1E4
GTIN	4046356470209
Weight per piece (including packing)	305 g
Weight per piece (excluding packing)	204 g
Customs tariff number	85389099
Country of origin	US

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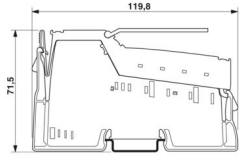


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## Technical data

### Dimensions

Dimensional drawing	
Width	48.8 mm
Height	119.8 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

#### Digital:

Input name	Digital inputs
Description of the input	Can be configured as input or output
Number of inputs	4
Connection method	Inline connector
Connection technology	2-conductor
Protective circuit	Polarity protection, surge protection

### Output data

#### Digital:

Output name	Digital outputs
Output description	Digital passive output
Connection method	Inline connector
Connection technology	3-conductor
Number of outputs	4

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Protective circuit	Polarity protection, surge protection
Output voltage	24 V
Nominal output voltage	24 V DC

## Product properties

Product type	I/O component
Product family	Inline
Type	modular Inline
No. of channels	4

## Electrical properties

### Potentials

Power consumption	4.8 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. 190 mA

## Connection data

Connection method	Spring-cage connection
Conductor cross-section, rigid	0.08 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.08 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
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 (storage/transport)	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)

## Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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## Approvals

### Ex data

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ATEX	⊕ II 3(1)GD Ex ec [ja Ga Da] IIC T4 Gc Sira 09ATEX2339X
IECEEx	Ex ec [ja Ga Da] IIC T4 Gc IECEEx 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. 11.76 V DC (Input)
Max. output current $I_o$	max. 109 mA (Output)
	max. 15.3 mA (Input)
Max. output power $P_o$	max. 757 mW (Output)
	max. 44.8 mW (Input)
Safety-related maximum voltage $U_m$	28 V DC
IIC (A, B) (Output): Max. external inductivity $L_o$ / Max. external capacitance $C_o$	1.015 mH / 0.083 $\mu$ F
IIB, [IIIC, IIIB] (C, E, F, G) (Output): Max. external inductivity $L_o$ / Max. external capacitance $C_o$	3.045 mH / 0.625 $\mu$ F
IIA (D) (Output): Max. external inductivity $L_o$ / Max. external capacitance $C_o$	8.12 mH / 2.15 $\mu$ F
IIC (A, B) (Input): Max. external inductivity $L_o$ / Max. external capacitance $C_o$	1.52 mH / 1.5 $\mu$ F
IIB, [IIIC, IIIB] (C, E, F, G) (Input): Max. external inductivity $L_o$ / Max. external capacitance $C_o$	4.56 mH / 9.9 $\mu$ F
IIA (D) (Input): Max. external inductivity $L_o$ / Max. external capacitance $C_o$	21.1 mH / 39 $\mu$ F

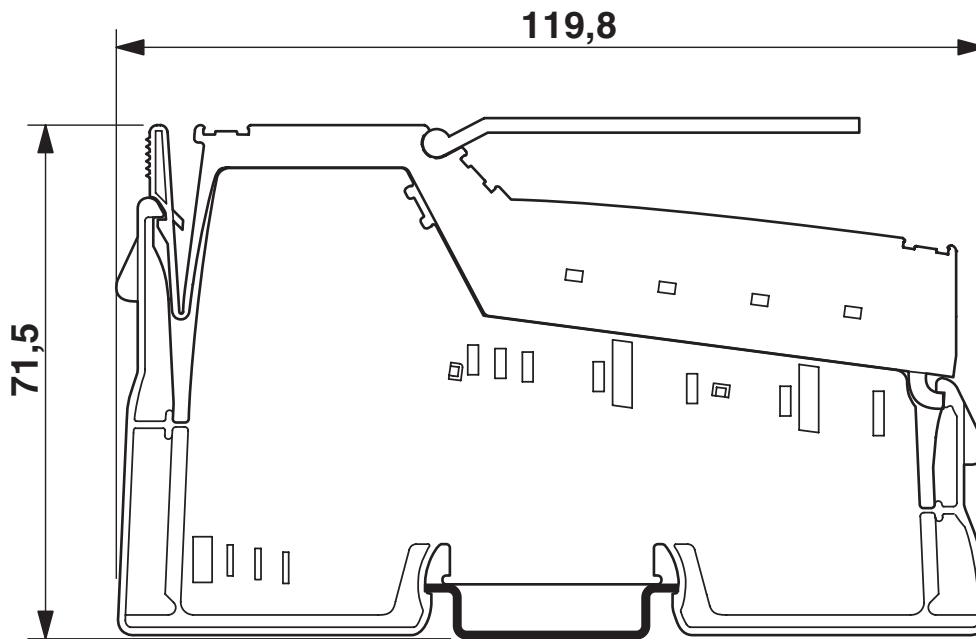
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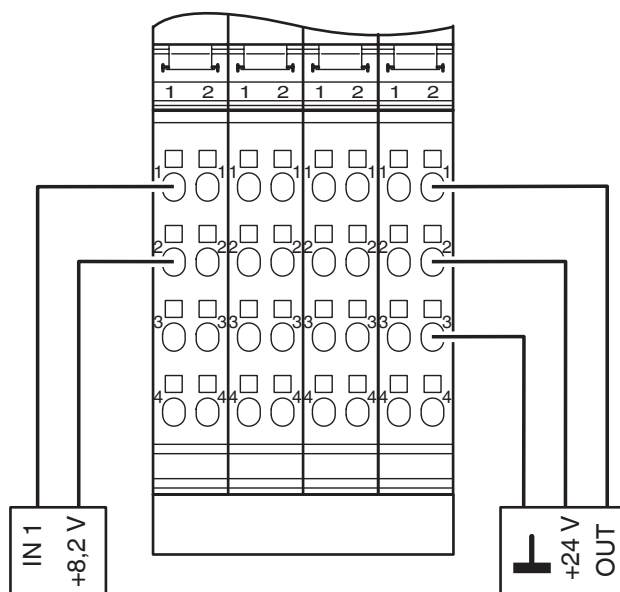
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## Drawings

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

27242604

### ETIM

ETIM 9.0

EC001599

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