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

2869911

https://www.phoenixcontact.com/us/products/2869911

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

Your advantages

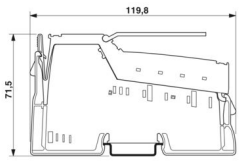
- NAMUR sensors supported (EN 60947-5-6)
- 4 configurable I/O channels
- Single-channel diagnostics
- 8.2 V sensor supply

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

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.

Material specifications

Color	blue

Interfaces

Inline local bus

Connection method	Inline data jumper
Transmission speed	500 kbps

System properties

Module

ID code (hex)	none

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
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)

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 mm² ... 1.5 mm²
Conductor cross-section, flexible	0.08 mm² ... 1.5 mm²
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)

Approvals

Ex data

ATEX	Ⓔx 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

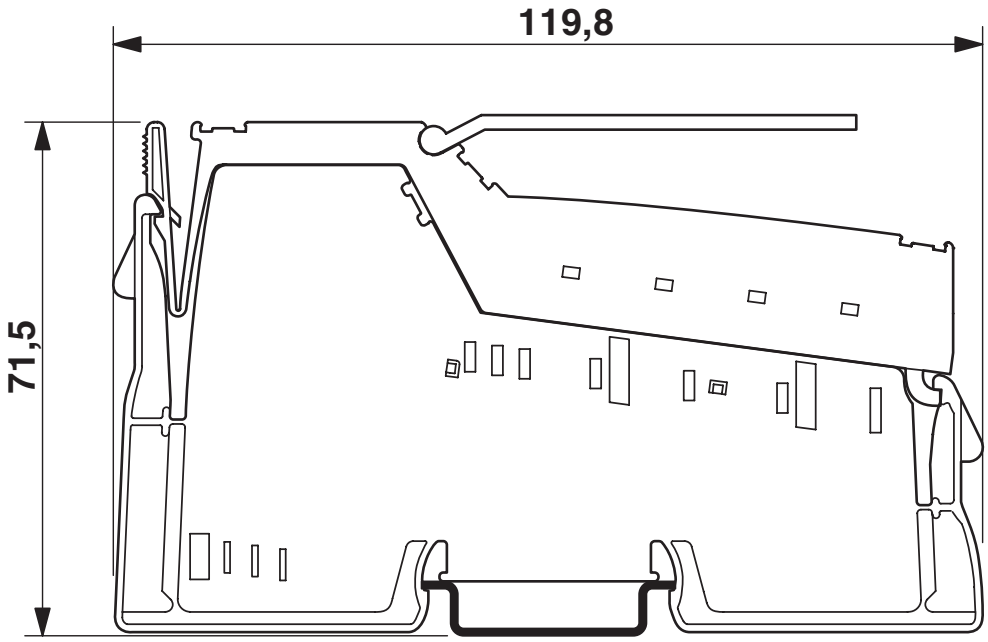
Ex data

Safety data

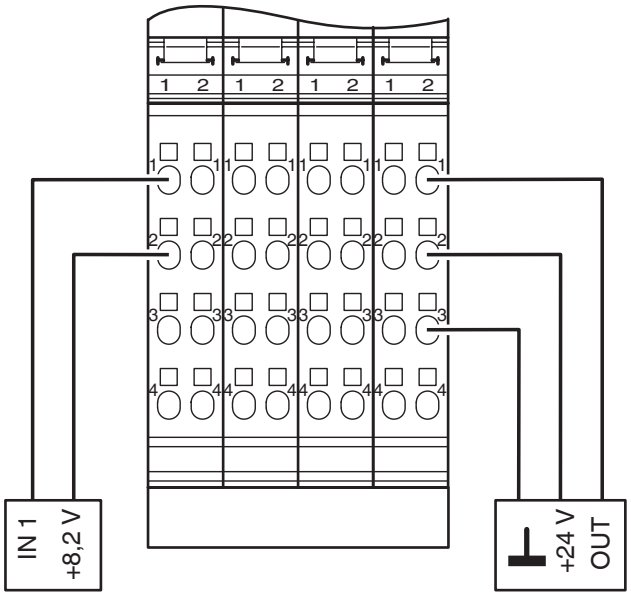
Max. output voltage U_o	max. 28 V DC (Output)
	max. 11.76 V DC (Input)
Max. output current I_o	max. 109 mA (Output)
	max. 15.3 mA (Input)
Max. output power P_o	max. 757 mW (Output)
	max. 44.8 mW (Input)
Safety-related maximum voltage U_m	28 V DC
IIC (A, B) (Output): Max. external inductivity L_o / Max. external capacitance C_o	1.015 mH / 0.083 µF
IIB, [IIIC, IIIB] (C, E, F, G) (Output): Max. external inductivity L_o / Max. external capacitance C_o	3.045 mH / 0.625 µF
IIA (D) (Output): Max. external inductivity L_o / Max. external capacitance C_o	8.12 mH / 2.15 µF
IIC (A, B) (Input): Max. external inductivity L_o / Max. external capacitance C_o	1.52 mH / 1.5 µF
IIB, [IIIC, IIIB] (C, E, F, G) (Input): Max. external inductivity L_o / Max. external capacitance C_o	4.56 mH / 9.9 µF
IIA (D) (Input): Max. external inductivity L_o / Max. external capacitance C_o	21.1 mH / 39 µF

Drawings

Dimensional drawing



Connection diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2869911

ATEX
Approval ID: Sira 09ATEX2339X

Classifications

ECLASS

ECLASS-13.0	27242604

ETIM

ETIM 9.0	EC001599

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