

# IOA DAC-4DI/AI/EX - Converter



1145061

<https://www.phoenixcontact.com/us/products/1145061>

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Digital-to-analog converter for VIP I/O-Marshalling base elements. For connection of four digital inputs and conversion to a single analog 4...20 mA signal. Saves three I/O channels.

## Product description

Digital to analog converter for implementing up to 4 digital input signals in one condition-proportional 4 ... 20 mA signal. The module sets a current value at the module output in the range of 4 mA ... 20 mA depending on the switching state of the signal generators attached. The active analog input card can determine the switching states of the switching contacts using the current value and the corresponding calculation tables. The module is installed on a corresponding VIP I/O-Marshalling base element by means of plug-in contact. Installation in zone 2, "ec" type of protection is permitted.

## Commercial data

Item number	1145061
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C480
Product key	DK115Z
GTIN	4063151134860
Weight per piece (including packing)	63.8 g
Weight per piece (excluding packing)	60 g
Customs tariff number	85389091
Country of origin	US

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## Technical data

### Product properties

Product type	Interface module
Product family	VIP I/O-Marshalling
Number of positions	1

### Insulation characteristics

Overvoltage category	II
Pollution degree	2

### Electrical properties

Operating voltage range	19.2 V DC ... 30 V DC
Current	≤ 20 mA

### Connection data

Connection method	Plug-in connection
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### Ex data

#### Safety data

Input voltage $U_i$	30 V
Input current $I_i$	19 mA
Input power $P_i$	570 mW
Max. output voltage $U_o$	2.5125 V
Max. output current $I_o$	19.55 mA
Max. output power $P_o$	49 mW
Safety-related maximum voltage $U_m$	30 V
Max. external inductivity $L_o$ / Max. external capacitance $C_o$	/ 999 $\mu$ F 209 mH

### Dimensions

#### Item dimensions

Width	10.3 mm
Height	64.2 mm
Depth	72.9 mm

### Material specifications

Color	gray (RAL 7042)
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### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 75 °C

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Ambient temperature (storage/transport)	-40 °C ... 75 °C
Altitude	≤ 2000 m
Permissible humidity (operation)	0 % ... 95 % (non-condensing)

## Approvals

### ATEX

Identification	⊕ II 3G Ex ec IIC T4 Gc
	⊕ II 3G Ex ic IIC T4 Gc
Certificate	CSANe 20ATEX3152X

### IECEX

Identification	Ex ec IIC T4 Gc
	Ex ic IIC T4 Gc
Certificate	IECEX SIR 21.0005X

### UKEX

Identification	⊕ II 3G Ex ec IIC T4 Gc
	⊕ II 3G Ex ic IIC T4 Gc
Certificate	PxCIF23UKEX1145061X

### CSA, USA/Canada

Identification	Class I, Div. 2, Groups A, B, C, D
	Class I, Zone 2, AEx ic IIC T4 Gc
	ANIFW apparatus for connection to: Class I, II, III, Div. 2 Groups A, B, C, D, F, G
	Ex ic IIC T4 Gc
	Ex ec IIC T4 Gc
Certificate	CSA 21CA80047687X

## Standards and regulations

Standards/regulations	IEC 60664
	DIN EN 50178

## Mounting

Mounting type	Plug-in mounting
Assembly note	Plugs into VIP/...BASE...
Mounting position	any

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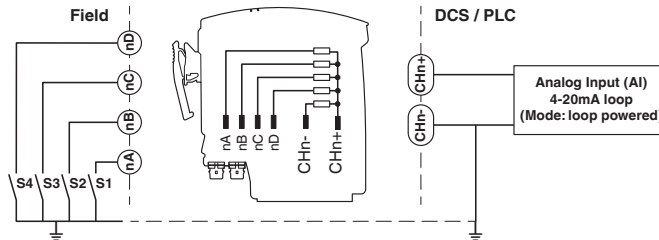
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## Drawings

Schematic diagram



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## Approvals

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**IECEx**

Approval ID: IECEx SIR 21.0005X



**ATEX**

Approval ID: CSANe 20ATEX3152X



**CSA**

Approval ID: 80047687



**CSAus**

Approval ID: 80047687

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## Classifications

### ECLASS

ECLASS-13.0	27141152
ECLASS-15.0	27141152

### ETIM

ETIM 10.0	EC002780
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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