IOA DAC-4DI/AI/EX - Converter

1145061

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

Product description

Digital to analog converter for implementing up to four digital input signals in one condition-proportional 4 mA ... 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 via a plug-in contact on a compatible VIP I/O-Marshalling termination board. 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

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

Input data

Nominal input voltage U_N	24 V DC

Connection data

Connection method	Plug-in connection

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 µF
	209 mH

Dimensions

Item dimensions

Width	10.3 mm
Height	64.2 mm
Depth	72.9 mm

Material specifications

Color	gray (RAL 7042)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 75 °C
Ambient temperature (storage/transport)	-40 °C ... 75 °C
Altitude	≤ 2000 m
Permissible humidity (operation)	0 % ... 95 % (non-condensing)

Approvals

ATEX

Identification	Ⓔx II 3G Ex ec IIC T4 Gc
	Ⓔx 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	Ⓔx II 3G Ex ec IIC T4 Gc
	Ⓔx 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

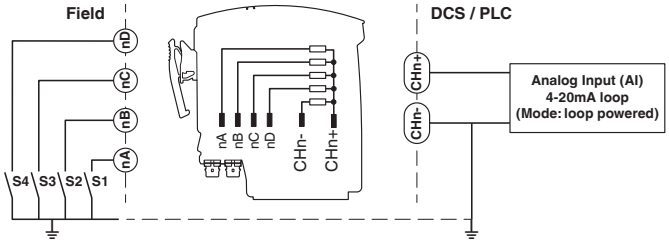
Standards/regulations	IEC 60664
	DIN EN 50178

Mounting

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

Drawings

Schematic diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1145061

IECEx
Approval ID: IECEx SIR 21.0005X

ATEX
Approval ID: CSANe 20ATEX3152X

CSA
Approval ID: 80047687

CSAus
Approval ID: 80047687

Classifications

ECLASS

ECLASS-13.0	27141152
ECLASS-15.0	27141152

ETIM

ETIM 10.0	EC002780

UNSPSC

UNSPSC 21.0	39121400

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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