

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	CK8291
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

Max. permissible current	20 mA
Nominal voltage U_N	19.2 V DC ... 30 V DC

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

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Approvals

ATEX

Identification	Ex II 3G Ex ec IIC T4 Gc
	Ex 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	Ex II 3G Ex ec IIC T4 Gc
	Ex 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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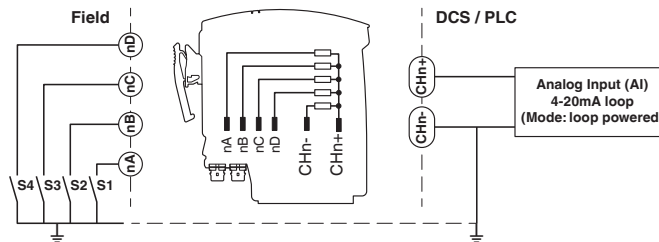
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Drawings

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

cCSAus

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Classifications

ECLASS

ECLASS-11.0	27141152
ECLASS-13.0	27141152
ECLASS-12.0	27141152

ETIM

ETIM 9.0	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

EU REACH SVHC

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

VIP/S/MC/BASE 1-8/L/EX - Base module

2906596

<https://www.phoenixcontact.com/us/products/2906596>



8-channel VIP I/O marshalling base element for universal use. All connections as screw connection technology. With the COMBICON connector, compatible with the Honeywell C300 and RUSIO series. Marking for channels 1–8.

VIP/S/MC/BASE 9-16/L/EX - Base module

2906630

<https://www.phoenixcontact.com/us/products/2906630>



8-channel VIP I/O marshalling base element for universal use. All connections as screw connection technology. With the COMBICON connector, compatible with the Honeywell C300 and RUSIO series. Marking for channels 9–16.

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VIP/S/MC/BASE 17-24/L/EX - Base module

2907024

<https://www.phoenixcontact.com/us/products/2907024>



8-channel VIP I/O marshalling base element for universal use. All connections as screw connection technology. With the COMBICON connector, compatible with the Honeywell C300 and RUSIO series. Marking for channels 17–24.

VIP/S/MC/BASE 25-32/L/EX - Base module

2907025

<https://www.phoenixcontact.com/us/products/2907025>



8-channel VIP I/O marshalling base element for universal use. All connections as screw connection technology. With the COMBICON connector, compatible with the Honeywell C300 and RUSIO series. Marking for channels 25–32.

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VIP/S/MC/BASE 1-8/L/C/EX - Base module

2907186

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8-channel VIP I/O marshalling base element for universal use. All connections as screw connection technology. With the COMBICON connector, compatible with the Honeywell C300 and RUSIO series. Marking for channels 1–8 and painting.

VIP/S/MC/BASE 9-16/L/C/EX - Base module

2907187

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8-channel VIP I/O marshalling base element for universal use. All connections as screw connection technology. With the COMBICON connector, compatible with the Honeywell C300 and RUSIO series. Marking for channels 9–16 and painting.

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VIP/S/MC/BASE 17-24/L/C/EX - Base module

2907209

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8-channel VIP I/O marshalling base element for universal use. All connections as screw connection technology. With the COMBICON connector, compatible with the Honeywell C300 and RUSIO series. Marking for channels 17-24 and painting.

VIP/S/D25M/BASE 1-8/L/C/EX - Base module

2906595

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8-channel VIP I/O marshalling base element for universal use. All connections as screw connection technology. This module with the D-SUB 25 connector is pin compatible with the Foxboro I/A series DCS.

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VIP/MSTB/D50M/BASE/16CH/CX/EX - Base module

2908788

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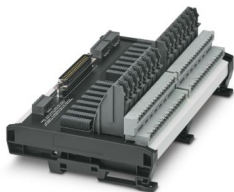


16-channel VIP I/O marshalling base element for universal use. Plug-in field and supply terminals available as accessories. Either with screw or Push-in connection technology. Compatible with the Tricon CX DCS series (D-SUB 50).

BASE-MSTB/D37M/16CH/EX - Base module

1065476

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16-channel VIP I/O marshalling base element with 37-pos. D-SUB connector for universal use. Plug-in field and supply terminals available as accessories. Either with screw or Push-in connection technology.

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VIP/S/MC/BASE 25-32/L/C/EX - Base module

2907210

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8-channel VIP I/O marshalling base element for universal use. All connections as screw connection technology. With the COMBICON connector, compatible with the Honeywell C300 and RUSIO series. Marking for channels 25–32 and painting.

Accessories

UC-TM 6 - Marker for terminal blocks

0818085

<https://www.phoenixcontact.com/us/products/0818085>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 80

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UC-TM 6 BU - Marker for terminal blocks

0818344

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Marker for terminal blocks, Sheet, blue, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 80

ZB 5,08:UNBEDRUCKT - Zack marker strip

0809793

<https://www.phoenixcontact.com/us/products/0809793>



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 5.08 mm, lettering field size: 4.98 x 10.5 mm, Number of individual labels: 10

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B-STIFT - Marker pen

1051993

<https://www.phoenixcontact.com/us/products/1051993>



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

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