

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



2906595

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

Your advantages

- Integrated carrier for IOA insertion and retention
- Screw-clamp field connections
- Power bus terminals with redundancy
- Each channel has four connections (A, B, C, D) and multiple shield options
- Channels for marking accessories
- Integrated DIN rail ground foot
- Rugged metal DIN rail foot for ease of installation or removal from the rail
- Terminals for discrete wiring or cable connection

Commercial data

Item number	2906595
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C480
Product key	CK8112
Catalog page	Page 552 (C-5-2017)
GTIN	4055626184609
Weight per piece (including packing)	442.3 g
Weight per piece (excluding packing)	442.3 g
Customs tariff number	85366990
Country of origin	US

Technical data

Product properties

Product type	Module carrier
Product family	VIP I/O-Marshalling
No. of channels	8

Data management status

Article revision	17
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Insulation characteristics

Overvoltage category	II
Pollution degree	2

Electrical properties

Max. operating voltage $U_{\max}$	30 V DC (field terminals)
	230 V AC (field terminals)
	30 V DC (A and B terminals)
	30 V DC (D-SUB 25 connector)
Max. permissible current	4 A (A and B terminals)
Max. permissible total current	15 A (per module)
Max. current carrying capacity per branch	3 A (field signal)
	1 A (control contacts)

Connection data

Field level

Connection in acc. with standard	IEC / EN
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm ² ... 4 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section AWG	24 ... 12
Tightening torque	0.5 Nm ... 0.6 Nm

Controller level

Connection method	D-SUB 25
Number of connections	1
Number of positions	25
Tightening torque	0.3 Nm ... 0.34 Nm

Power-level terminals

Connection method	Screw connection
Number of connections	2
Conductor cross section rigid	0.14 mm ² ... 2.5 mm ²

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Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²
Conductor cross section AWG	26 ... 14
Tightening torque	0.5 Nm ... 0.6 Nm

Ex data

Safety data

Input voltage U _i	30 V (per channel)
Input current I _i	1 A (per channel)
Inductance L _i	0 mH
Capacitance C _i	0 µF
Safety-related maximum voltage U _m	253 V AC/DC (A and B terminals and D-SUB 25)

Signaling

Status display	no
Status display present	No

Dimensions

Item dimensions

Width	123.1 mm
Height	102.7 mm
Depth	72.2 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	< 2000 mm
Permissible humidity (operation)	0 % ... 95 % (non-condensing)

Approvals

ATEX

Identification	Ex II 3G Ex nA IIC T4 Gc
Certificate	Sira 17ATEX4367X

IECEx

Identification	Ex nA IIC T4 Gc
Certificate	IECEx SIR 17.0086X

UKEX

Identification	Ex II 3G Ex nA IIC T4 Gc
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Certificate	PxCIF23UKEX2906595X
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UL, USA/Canada

Identification	Class I, Div. 2, Groups A, B, C, D T4
	Class I, Zone 2, IIC T4

CSA, USA/Canada

Identification	Class I, Div. 2, Groups A, B, C, D T4
	Class I, Zone 2, AEx nA IIC T4 Gc
	Ex nA IIC T4 Gc

Standards and regulations

Standards/regulations	IEC 60664
	DIN EN 50178

Mounting

Mounting type	DIN rail mounting
Mounting position	As desired on 35 mm DIN rail in acc. with EN 60715

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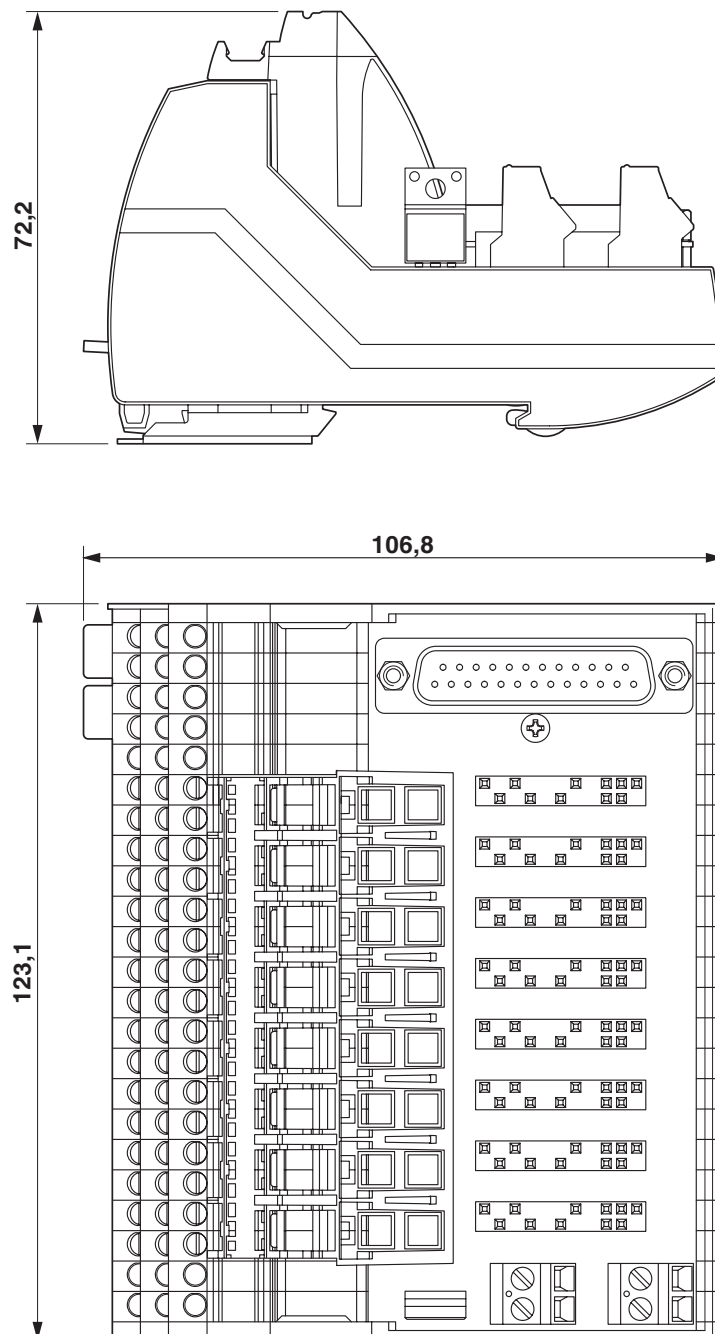
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Drawings

Dimensional drawing



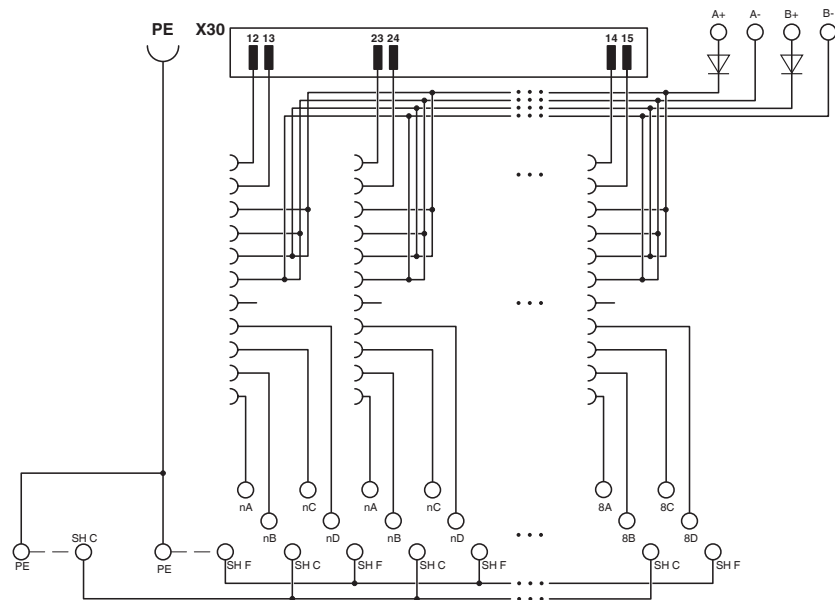
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Circuit diagram



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



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Approvals

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IECEx
Approval ID: IECEx SIR 17.0086X



ATEX
Approval ID: SIRA 17ATEX4367X



CSA
Approval ID: 70123589



CSAus
Approval ID: 70123589



cUL Listed
Approval ID: E196811



UL Listed
Approval ID: E196811

cULus Listed

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	6(c), 7(a)
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.)	Lead(CAS: 7439-92-1)
SCIP	8da7faee-f0e6-4bc9-b684-22712f381589

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Mandatory accessories

VIP/S/MC/KIT 1-8 - PCB connector

2907031

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Pair of screw-clamp plugs to connect to VIP base module labeled 1-8.



VIP/S/FRONT-MC/KIT 1-8 - PCB connector

2907032

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Pair of screw-clamp plugs to connect to VIP base module labeled 1-8



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IOA FEED-THRU/EX - Feed-through plug

2906598

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Feed-through terminal block for VIP I/O-Marshalling base elements for conveying field signals to or from the I/O system.

IOA AI/AO/BFI/DS/0.5A/EX - Input/output module

2906599

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Fuse module for VIP I/O-Marshalling base elements with replaceable 0.5 A fuses in the field device supply path and in the signal path. Integrated test points and a disconnect knife enable uninterrupted signal measurement.

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



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IOA DI/DO/BFI/DS/1.0A/EX - Input/output module

2906600

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Fuse module for VIP I/O-Marshalling base elements with replaceable 1 A fuses in the field device supply path and in the signal path. Integrated test points and a disconnect knife enable uninterrupted signal measurement.

IOA REL 24V DO/BFI/3.0A/EX - Relay module

2910153

<https://www.phoenixcontact.com/us/products/2910153>



Relay module for VIP I/O-Marshalling base elements. For switching 24 V DC loads up to max. 3 A. Integrated fuse and fuse failure indication. N/O contact or N/C contact can be used.

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

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IOA REL 24V DI/BFI/1.0A/EX - Relay module

2910155

<https://www.phoenixcontact.com/us/products/2910155>



Relay module for VIP I/O-Marshalling base elements. For the electrically isolated coupling of 24 V DC field devices to digital inputs. Integrated fuse and fuse failure indication.

IOA REL 120V DO/BFI/3.0A/EX - Relay module

2910154

<https://www.phoenixcontact.com/us/products/2910154>



Relay module for VIP I/O-Marshalling base elements. For switching 120 V AC loads up to max. 3 A. Integrated fuse and fuse failure indication. N/O contact or N/C contact can be used.

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

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IOA REL 120V DI/1.0A/EX - Relay module

2910157

<https://www.phoenixcontact.com/us/products/2910157>



Relay module for VIP I/O-Marshalling base elements. For the electrically isolated coupling of 120 V AC field devices to digital inputs. Integrated fuse and fuse failure indication.

IOA REL 230V DO/BFI/NO/3.0A/EX - Relay module

2910421

<https://www.phoenixcontact.com/us/products/2910421>



Relay module for VIP I/O-Marshalling base elements. For switching 230 V AC loads up to max. 3 A. Integrated fuse and fuse failure indication. N/O contact can be used.

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

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IOA REL 230V DO/BFI/NC/3.0A/EX - Relay module

2910422

<https://www.phoenixcontact.com/us/products/2910422>



Relay module for VIP I/O-Marshalling base elements. For switching 230 V AC loads up to max. 3 A. Integrated fuse and fuse failure indication. N/C contact can be used.

IOA REL 230V DI/1.0A/EX - Relay module

2910423

<https://www.phoenixcontact.com/us/products/2910423>



Relay module for VIP I/O-Marshalling base elements. For the electrically isolated coupling of 230 V AC field devices to digital inputs. Integrated fuse and fuse failure indication.

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



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IOA RPSS-I-I/HART/EX - Power/input isolating amplifier

2908452

<https://www.phoenixcontact.com/us/products/2908452>



Ex ic repeater power supply and input signal conditioner, HART for VIP I/O-Marshalling base elements: Transmits 0/4 ... 20 mA signals from the potentially explosive area (zone 2, CID2) to a load (active or passive) in the safe area. 3-way electrical isolation

IOA FEED-THRU-DO/NI/EX - Feed-through plug

1172189

<https://www.phoenixcontact.com/us/products/1172189>



Non-incendive, Ex ic impeding devices for VIP I/O marshalling base elements. For limiting current (60 mA or 80 mA) and voltage (26.4 V DC) on digital outputs. For example, to control solenoid valves in the Ex area (zone 2, CID2).

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

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IOA PR-DAI/DAO/F/DS/2A/EX - Input/output module

1048208

<https://www.phoenixcontact.com/us/products/1048208>



Fuse module for VIP I/O marshalling base elements with replaceable 2 A fuse in the field device supply path. Integrated test points and a disconnect knife allow uninterrupted signal measurement.

IOA PR-DAI/DAO/F/DS/0.25A/EX - Input/output module

1188706

<https://www.phoenixcontact.com/us/products/1188706>



Fuse module for VIP I/O marshalling base elements with replaceable 0.25 A fuse in the field device supply path. Integrated test points and a disconnect knife allow uninterrupted signal measurement.

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

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IOA DAC-4DI/AI/EX - Converter

1145061

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



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.

IOA LM-DI/R/RUSIO/EX - Monitoring block

1048209

<https://www.phoenixcontact.com/us/products/1048209>



Cable monitoring module for VIP I/O marshalling base elements. Enables cable fault monitoring when using standard switching contacts in safety applications. Both wire breaks and short circuits can be detected.

Accessories

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IOA MCR-CJC-PT100 - Plug

1085776

<https://www.phoenixcontact.com/us/products/1085776>



Plug for cold junction compensation for thermocouples, in combination with MACX MCR(-EX)-TC... temperature transducers

VIP/S/BASE 3L DIVIDER - Partition plate

2907715

<https://www.phoenixcontact.com/us/products/2907715>



VIP I/O marshalling partition plate for safe isolation between non-Ex i and Ex i plug-in modules on a base module in VIP design.
The partition plate is mounted directly on the base module between the plug-in IOAs.

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VIP/U/RAIL 3L DIVIDER - Partition plate

2908555

<https://www.phoenixcontact.com/us/products/2908555>



VIP I/O marshalling partition plate for safe isolation between non-Ex i and Ex i assembled base modules for Honeywell systems. The partition plate is mounted directly on the DIN rail at the end of the base module.

UC-TM 10 - Marker for terminal blocks

0818069

<https://www.phoenixcontact.com/us/products/0818069>



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: 10.2 mm, lettering field size: 9.6 x 10.5 mm, Number of individual labels: 48

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UC-TM 10 BU - Marker for terminal blocks

0818441

<https://www.phoenixcontact.com/us/products/0818441>



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: 10.2 mm, lettering field size: 9.6 x 10.5 mm, Number of individual labels: 48

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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