

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



2908788

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

Your advantages

- Integrated carrier for IOA insertion and retention
- Screw and push-in (PT) plug kits available as separate part numbers
- Terminals for redundant power supply connections with fusing
- Each channel has four field-side connections (A, B, C, D)
- IOA modules sold separately

Commercial data

Item number	2908788
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C480
Product key	CK8122
GTIN	4055626477992
Weight per piece (including packing)	755.5 g
Weight per piece (excluding packing)	730.7 g
Customs tariff number	85366990
Country of origin	CN

Technical data

Product properties

Product type	Module carrier
Product family	VIP I/O-Marshalling
No. of channels	16

Data management status

Article revision	09
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Insulation characteristics

Overvoltage category	II, III
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 50 connector)
Max. permissible current	3 A (A and B terminals)
Max. permissible total current	10 A (per module)
Max. current carrying capacity per branch	3 A (field signal)
	0.5 A (control contacts)

Connection data

Field level

Connection in acc. with standard	IEC / EN
Connection method	pluggable
Number of connections	4
Number of positions	16

Controller level

Connection method	D-SUB pin strip
Number of connections	1
Number of positions	50

Ex data

Safety data

Input voltage U_i	30 V (per channel)
Input current I_i	0.5 A (per channel)
Inductance L_i	0 mH
Capacitance C_i	0 μ F
Safety-related maximum voltage U_m	253 V AC/DC (A and B terminals and D-SUB 50)

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Signaling

Status display	no
Status display present	No

Dimensions

Item dimensions

Width	250 mm
Height	142.3 mm
Depth	78 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 ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Altitude	< 2000 m
Permissible humidity (operation)	0 % ... 95 % (non-condensing)

Approvals

ATEX

Identification	Ex II 3G Ex nA IIC T4 Gc
Certificate	Sira 18ATEX 4041X

IECEX

Identification	Ex nA IIC T4 Gc
Certificate	IECEX SIR 18.0007X

UKEX

Identification	Ex II 3G Ex nA IIC T4 Gc
Certificate	PxCIF23UKEX2908788X

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

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

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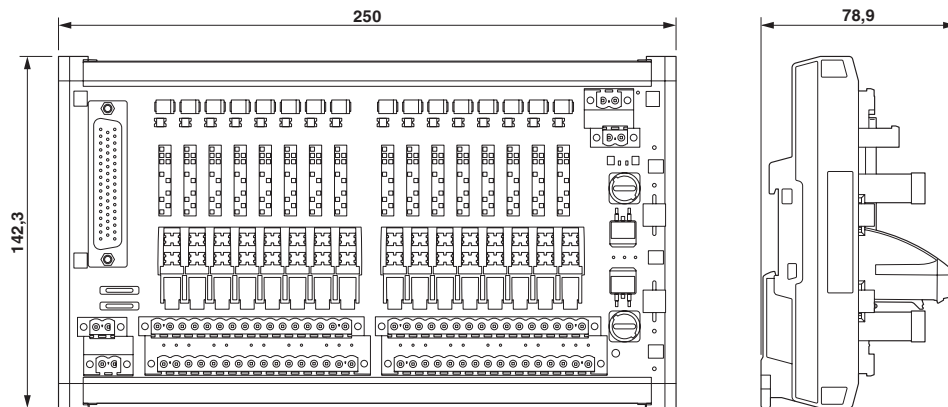


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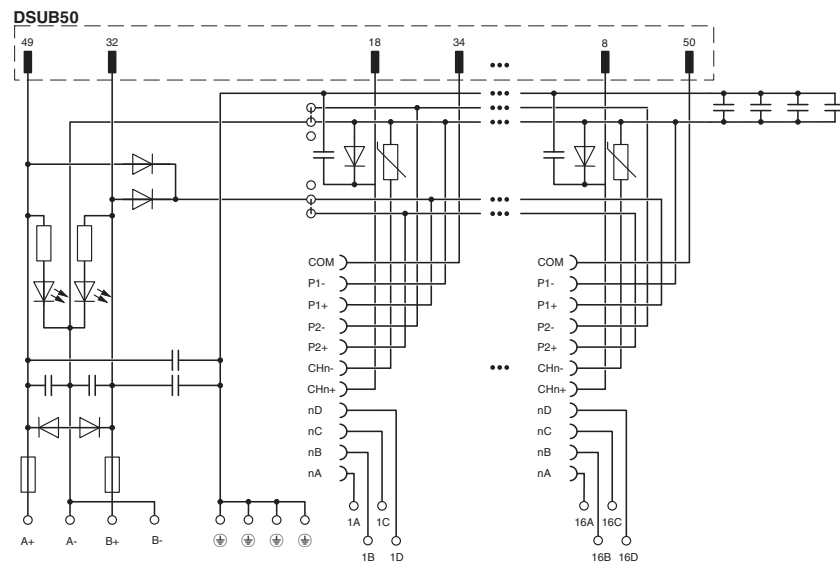
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Drawings

Dimensional drawing



Circuit diagram



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Approvals

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Functional Safety Approval ID: PHO 1609035 C002	
	IECEx Approval ID: IECEx SIR 18.0007X
	CSA Approval ID: 70167152
	CSAus Approval ID: 70167152
	ATEX Approval ID: SIRA 18ATEX4041X
cCSAus	

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Classifications

ECLASS

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

ETIM

ETIM 8.0	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), 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.)	Lead(CAS: 7439-92-1)
SCIP	9094823a-fcc5-4004-b761-5a5bb4b29c28

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Mandatory accessories

VIP/P/FKC/KIT CX - Connector set

2910417

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Plug kit for use with VIP/MSTB/D50M/BASE..., push-in connections



VIP/S/MVSTBR/KIT CX - Connector set

2910416

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Plug kit for use with VIP/MSTB/D50M/BASE..., screw connections



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IOA FEED-THRU/EX - Feed-through plug

2906598

<https://www.phoenixcontact.com/us/products/2906598>



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

<https://www.phoenixcontact.com/us/products/2906599>



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.

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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

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



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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.

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

2910421

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

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

2910422

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

2910155

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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.

VIP/MSTB/D50M/BASE/16CH/CX/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 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.

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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).

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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/MSTB/D50M/BASE/16CH/CX/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.

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VIP/UM-PRO/BASE DIVIDER/CX - Partition plate

2910139

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VIP I/O marshalling partition plate for safe isolation between Ex i plug-in modules and the power supply of the VIP/MSTB/D50M/BASE/16CH/CX/EX base module. The partition plate is mounted directly on the base module between the plug-in IOAs and the power supply.

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

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IOA-PSR-PS22-1NO-1NC-24DC - Coupling relay

2702971

<https://www.phoenixcontact.com/us/products/2702971>



Plug-in SIL coupling relay as an input/output accessory for VIP base module, SIL 3 high- and low-demand applications, safe-state-off, couples digital output signals to the periphery, one enabling current path, one confirmation current path, test pulse filter

Accessories

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

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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.

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.

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UC-TM 10 - Marker for terminal blocks

0818069

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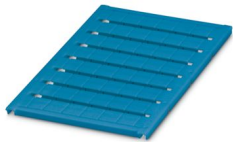


Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 10.2 mm, lettering field size: 9.6 x 10.5 mm, Number of individual labels: 48

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

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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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