

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



1065476
<https://www.phoenixcontact.com/in/products/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.

Product description

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. On the field side, four terminal points are available per channel (nA, nB, nC, nD). The plugged function modules can be supplied via two voltage supply buses (P1 and P2). Either with screw or Push-in connection technology.

Commercial data

Item number	1065476
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	*****
Product key	DK115A
GTIN	4055626727929
Weight per piece (including packing)	635.4 g
Weight per piece (excluding packing)	635.4 g
Customs tariff number	85366990
Country of origin	US

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



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Technical data

Product properties

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

Insulation characteristics

Overvoltage category	II, III
Pollution degree	2

Electrical properties

Max. operating voltage U_{max}	30 V DC (P2 and field terminals)
	230 V AC (P2 and field terminals)
	30 V DC (P1 terminals)
	30 V DC (D-SUB)
Max. permissible current	15 A (P1 or P2 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	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	1 A (per channel)
Inductance L_i	0 mH
Capacitance C_i	0 μ F
Safety-related maximum voltage U_m	253 V AC

Signaling

Status display	no
Status display present	No

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Dimensions

Item dimensions

Width	199 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	Ⓔ II 3G Ex ec IIC T4 Gc
Certificate	CSANe 22ATEX1005X

IECEX

Identification	Ex ec IIC T4 Gc
Certificate	IECEX CSA 22.0004X

UKEX

Identification	Ⓔ II 3G Ex ec IIC T4 Gc
Certificate	CSAE 22UKEX1040X

CSA, USA/Canada

Identification	Class I, Div. 2 Groups A, B, C, D T4 Class I, Zone 2, AEx ec IIC T4 Gc Ex ec IIC T4 Gc
Certificate	CSA 22CA80084549X

Mounting

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

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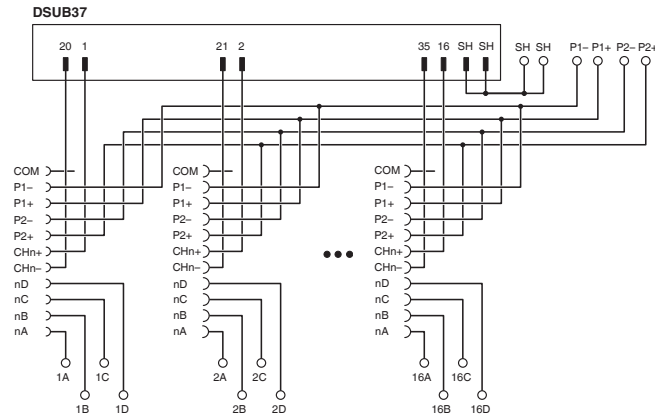
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Drawings

Circuit diagram



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Approvals

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IECEx

Approval ID: IECEx CSA 22.0004X



ATEX

Approval ID: CSANe 22ATEX1005X



CSA

Approval ID: 80084549



CSAus

Approval ID: 80084549



UKCA-EX

Approval ID: CSAE 22UKEX1040X

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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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

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	b3c42d23-56fb-4954-a88b-68297148a637

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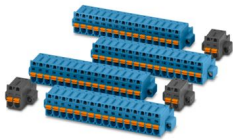
Mandatory accessories

PLUGKIT-BU/FKC/16CH-1-16 - Connector set

1300532

<https://www.phoenixcontact.com/in/products/1300532>

Connector set for standard applications for use with BASE-MSTB/D37M/16CH/EX VIP I/O marshalling base element with Push-in connection.

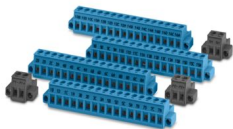


PLUGKIT-BU/MSTB/16CH-1-16 - Connector set

1300536

<https://www.phoenixcontact.com/in/products/1300536>

Connector set for standard applications for use with BASE-MSTB/D37M/16CH/EX VIP I/O marshalling base element with screw connection.



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PLUGKIT-GY/MSTB/16CH-1-16 - Connector set

1193535

<https://www.phoenixcontact.com/in/products/1193535>

Connector set for standard applications for use with BASE-MSTB/D37M/16CH/EX VIP I/O marshalling base element with screw connection.



PLUGKIT-GY/FKC/16CH-1-16 - Connector set

1193570

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Connector set for standard applications for use with BASE-MSTB/D37M/16CH/EX VIP I/O marshalling base element with Push-in connection.



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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

<https://www.phoenixcontact.com/in/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.

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

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

2906600

<https://www.phoenixcontact.com/in/products/2906600>



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/in/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.

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



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

2910155

<https://www.phoenixcontact.com/in/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/in/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.

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



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

2910157

<https://www.phoenixcontact.com/in/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/in/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.

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

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

2910422

<https://www.phoenixcontact.com/in/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/in/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.

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



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

2908452

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



Ex ic repeater power supply and input signal conditioner, HART for VIP I/O-M 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/in/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).

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



1065476

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

1048208

<https://www.phoenixcontact.com/in/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/in/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.

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



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IOA DAC-4DI/AI/EX - Converter

1145061

<https://www.phoenixcontact.com/in/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/in/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

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



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IOA MCR-CJC-PT100 - Plug

1085776

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

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



UC-TM 10 - Marker for terminal blocks

0818069

<https://www.phoenixcontact.com/in/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: latching, for terminal block width: 10.2 mm, Number of individual labels: 48, text field height: 10.5 mm, text field width: 9.6 mm



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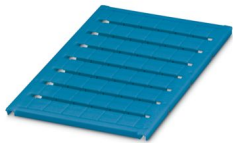
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UC-TM 10 BU - Marker for terminal blocks

0818441

<https://www.phoenixcontact.com/in/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: latching, for terminal block width: 10.2 mm, Number of individual labels: 48, text field height: 10.5 mm, text field width: 9.6 mm

B-STIFT - Marker pen

1051993

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



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

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VIP/S/BASE 3L DIVIDER - Partition plate

2907715

<https://www.phoenixcontact.com/in/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/in/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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PHOENIX CONTACT (I) Pvt. Ltd.

A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420

info@phoenixcontact.co.in