

2910153

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

Product description

Relay module for digital output signals for switching loads with max. 3 A nominal current and a maximum voltage of 24 V DC. The switch contact is protected by an integrated replaceable 3 A fuse. If the fuse fails, this is indicated by an LED. A plug-in bridge determines whether an N/O contact or an N/C contact is used. 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.

Your advantages

- · Output blown fuse indication
- · Active relay coil indication
- · Two-stage progressive release allowing for voltage checks with field-powered devices
- · Channel for marking accessories
- · Replaceable TE5-style fusing
- · 24 V internal marshalling option for connected field device
- Integrated keying reduces possible user error during replacement
- 1 PDT relay with user selectable NO or NC contact

Commercial data

| Item number | 2910153 |
|--------------------------------------|---------------------|
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | C480 |
| Product key | CK8222 |
| Catalog page | Page 556 (C-5-2017) |
| GTIN | 4055626447278 |
| Weight per piece (including packing) | 69.3 g |
| Weight per piece (excluding packing) | 65.6 g |
| Customs tariff number | 85364190 |
| Country of origin | US |



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Technical data

Product properties

| Product type | Relay Module |
|----------------------------|---------------------------|
| Product family | VIP I/O-Marshalling |
| Application | Output function |
| Operating mode | 100% operating factor |
| Mechanical service life | 2x 10 ⁷ cycles |
| Insulation characteristics | |
| Overvoltage category | II |
| Pollution degree | 2 |

Input data

Coil side

| Nominal input voltage U _N | 24 V DC |
|---------------------------------------------------------------|--------------------------------------------------------|
| Input voltage range in reference to \mathbf{U}_{N} | 0.9 1.1 |
| Typical input current at U _N | 13.5 mA |
| Typical response time | 5 ms |
| Typical release time | 8 ms |
| Coil voltage | 24 V DC |
| Protective circuit | Reverse polarity protection; Polarity protection diode |
| | Freewheeling diode; Freewheeling diode |
| Operating voltage display | Yellow LED |

Output data

Switching

| Contact switching type | 1 changeover contact |
|---------------------------------------|----------------------|
| Type of switch contact | Single contact |
| Contact connection type | Power contact |
| Contact material | AgSnO |
| Maximum switching voltage | 24 V DC |
| Minimum switching voltage | 5 V (at 100 mA) |
| Limiting continuous current | 3 A (fuse limited) |
| Min. switching current | 10 mA (at 12 V) |
| Interrupting rating (ohmic load) max. | 140 W (at 24 V DC) |

Connection data

| Contro | l circu | uits |
|--------|---------|------|
| | | |

| Connection method Pin strip |
|-----------------------------|
|-----------------------------|

Ex data



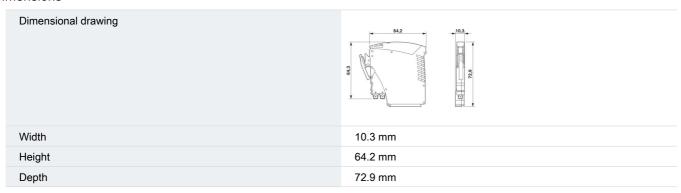
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Safety data

| Input voltage U _i | 24 V DC |
|------------------------------|---------|
| Input current I _i | 13.5 mA |

Dimensions



Material specifications

| Color | gray (RAL 7042) |
|----------------------------------------|-----------------|
| Flammability rating according to UL 94 | V0 |

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 | |
|----------------|------------------|
| Certificate | Sira 17ATEX4293X |
| | |

IECEx

| Identification | Ex ec nC IIC T4 Gc |
|----------------|--------------------|
| Certificate | IECEx SIR 17.0078X |

UKEX

| Identification | |
|----------------|---------------------|
| Certificate | PxCIF23UKEX2910153X |

UL, USA/Canada

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

CSA, USA/Canada



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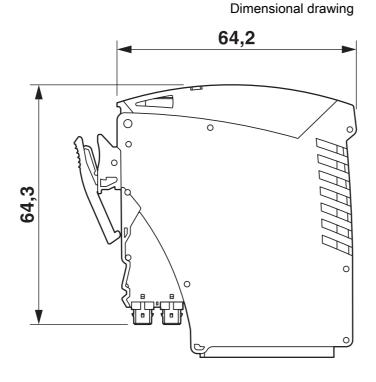
| Identification | Class I, Div. 2, Groups A, B, C, D T4 | | |
|---------------------------|---------------------------------------|--|--|
| | Class I, Zone 2, AEx ec nC IIC T4 Gc | | |
| | Ex ec nC IIC T4 Gc | | |
| Standards and regulations | | | |
| Standards/regulations | IEC 60664 | | |
| | DIN EN 50178 | | |
| Mounting | | | |
| Mounting type | Plug-in mounting | | |
| Assembly note | Plugs into VIP/BASE | | |
| Mounting position | any | | |

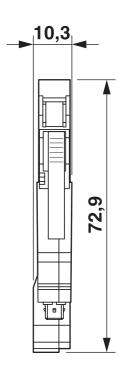


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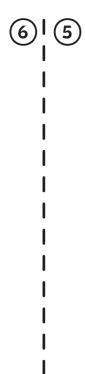
https://www.phoenixcontact.com/us/products/2910153

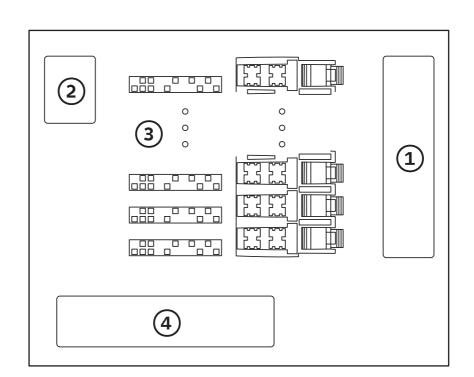
Drawings





Schematic diagram

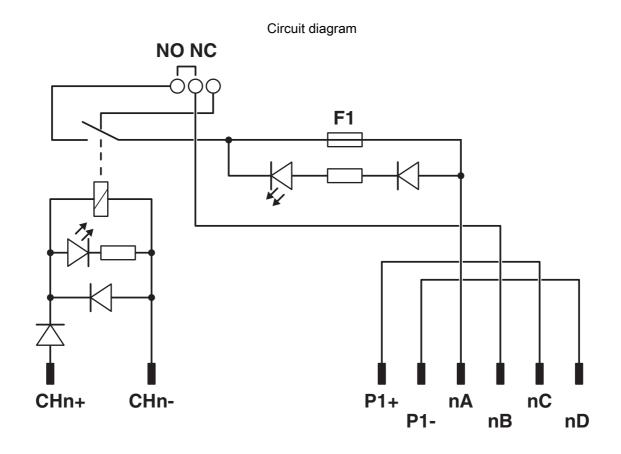






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Approvals

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IECEx

Approval ID: IECEx SIR 17.0078X



CSA

Approval ID: 70134758



CSAus

Approval ID: 70134758



ATEX

Approval ID: SIRA 17ATEX4293X



cUL Listed

Approval ID: FILE E 196811



UL Listed

Approval ID: FILE E 196811

cCSAus

cULus Listed



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Classifications

ECLASS

| | ECLASS-11.0 | 27371601 | | |
|--------|-------------|----------|--|--|
| | ECLASS-12.0 | 27371601 | | |
| | ECLASS-13.0 | 27371601 | | |
| ETIM | | | | |
| | ETIM 9.0 | EC001437 | | |
| UNSPSC | | | | |
| | UNSPSC 21.0 | 39122300 | | |



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Environmental product compliance

EU RoHS

| Fulfills EU RoHS substance requirements | Yes |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exemption | 6(c), 7(a), 7(c)-l |
| 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 | 36f1c6f9-742f-4a03-9c4b-d5429fede072 |



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Mandatory accessories

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

2906596

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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.

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

2906630

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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.



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

2907024

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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.

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

https://www.phoenixcontact.com/us/products/2907187



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

2907210

https://www.phoenixcontact.com/us/products/2907210



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.



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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.

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).



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

1065476

https://www.phoenixcontact.com/us/products/1065476



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.

Accessories

UC-TM 6 - Marker for terminal blocks

0818085

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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: $6.2 \, \text{mm}$, lettering field size: $5.6 \, \text{x} \, 10.5 \, \text{mm}$, Number of individual labels: $80 \, \text{mm}$



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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

FUSE/TE5/3.15A/F-10PCS - Fuse set

2906442

https://www.phoenixcontact.com/us/products/2906442



Plug-in fuse (TE5[®]); nominal current: 3.15 A; tripping behavior: fast-blow (F)

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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com