

2910154

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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.

## Product description

Relay module for digital output signals for switching loads with max. 3 A nominal current and a maximum voltage of 120 V AC. 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
- 120 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	2910154
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C480
Product key	CK8222
Catalog page	Page 556 (C-5-2017)
GTIN	4055626447285
Weight per piece (including packing)	68.2 g
Weight per piece (excluding packing)	71.2 g
Customs tariff number	85364900
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 <sup>7</sup> cycles	
Insulation characteristics		
Overvoltage category	II	
Pollution degree	2	

## Input data

### Coil side

Ooli side	
Nominal input voltage U <sub>N</sub>	24 V DC
Input voltage range in reference to $U_N$	0.9 1.1
Typical input current at U <sub>N</sub>	13.5 mA
Typical response time	5 ms
Typical release time	8 ms
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	120 V AC
Limiting continuous current	3 A (fuse limited)
Maximum inrush current	on request
Min. switching current	10 mA (at 12 V)
Interrupting rating (ohmic load) max.	23 W (at 110 V DC)
	360 VA (at 120 V AC)

### Connection data

### Control circuits

Connection method	Pin strip
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### Ex data



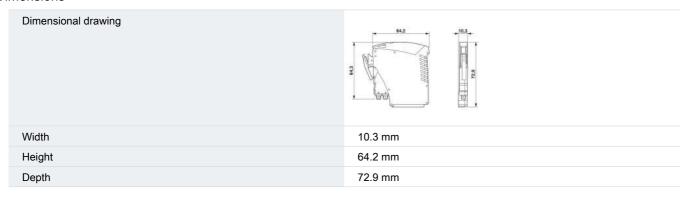
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### Safety data

Input voltage U <sub>i</sub>	24 V DC
Input current I <sub>i</sub>	13.5 mA

### **Dimensions**



## Material specifications

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



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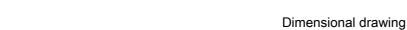
Identification	Class I, Zone 2, AEx ec nC IIC T4 Gc
	Ex ec nC IIC T4 Gc
Standards and regulations	
Standards/regulations	IEC 60664
	DIN EN 50178
Mounting	
Mounting type Assembly instructions	Plug-in mounting
	Plugs into VIP/BASE
Mounting position	any

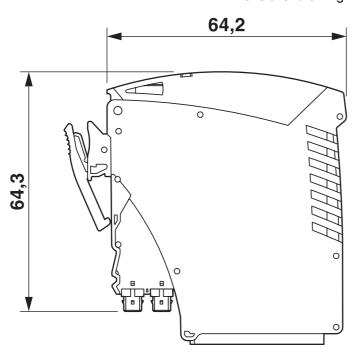


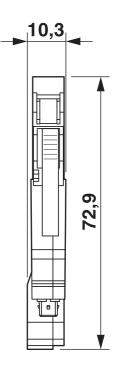
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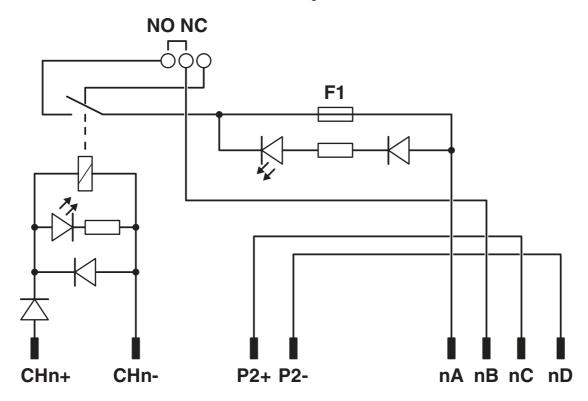
## Drawings







Circuit diagram





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## **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2910154



**IECEx** 

Approval ID: IECEx SIR 17.0078X



**ATEX** 

Approval ID: SIRA 17 ATEX 4293X



CSA

Approval ID: 70134758



FM approved

Approval ID: FM19US0089X



**CSAus** 

Approval ID: 70134758

cCSAus



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## Classifications

### **ECLASS**

	ECLASS-11.0	27371601	
	ECLASS-12.0	27371601	
	ECLASS-13.0	27371601	
ETIM			
	ETIM 8.0	EC001437	
UNSPSC			
	UNSPSC 21.0	39122300	



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## Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"



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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

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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.



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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/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.



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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

https://www.phoenixcontact.com/us/products/2908788



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).

## Accessories



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#### 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 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<sup>®</sup>); nominal current: 3.15 A; tripping behavior: fast-blow (F)

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