

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



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 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

Control circuits

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

Ex data

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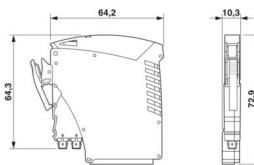
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Safety data

| | |
|---------------------|---------|
| Input voltage U_i | 24 V DC |
| Input current I_i | 13.5 mA |

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 10.3 mm |
| Height | 64.2 mm |
| Depth | 72.9 mm |

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 | Ex II 3G Ex ec nC IIC T4 Gc |
| Certificate | Sira 17ATEX4293X |

IECEX

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

UKEX

| | |
|----------------|-----------------------------|
| Identification | Ex II 3G Ex ec nC IIC T4 Gc |
| 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 instructions | Plugs into VIP/...BASE... |
| Mounting position | any |

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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

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