

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



2910155

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

Product description

Relay module for digital input signals for the electrically isolated coupling of 24 V DC field devices. The control path is protected by an integrated replaceable 1 A fuse. If the fuse fails, this is indicated by an LED. 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

- Power line 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

Commercial data

Item number	2910155
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C480
Product key	DK1153
GTIN	4055626447292
Weight per piece (including packing)	69.8 g
Weight per piece (excluding packing)	69.8 g
Customs tariff number	85364190
Country of origin	US

Technical data

Product properties

Product type	Relay Module
Product family	VIP I/O-Marshalling
Application	Input function
Operating mode	100% operating factor
Mechanical service life	2x 10 ⁷ cycles

Insulation characteristics

Overvoltage category	II
Pollution degree	2

Data management status

Date of last data management	01.04.2026
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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	7 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 N/O contact
Type of switch contact	Single contact
Contact material	AgSnO, hard gold-plated
Maximum switching voltage	24 V DC
Minimum switching voltage	100 mV (at 10 mA)
Limiting continuous current	50 mA
Maximum inrush current	50 mA
Min. switching current	1 mA (at 24 V)
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)

Connection data

Control circuits

Connection method	Pin strip
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Ex data

Safety data

Input voltage U_i	24 V DC
Input current I_i	7 mA

Dimensions

Item dimensions

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	Ⓔ 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	Ⓔ 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, IIC T4

CSA, USA/Canada

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

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Standards and regulations

Standards/regulations	IEC 60664
	DIN EN 50178

Mounting

Mounting type	Plug-in mounting
Assembly note	Plugs into VIP/...BASE...

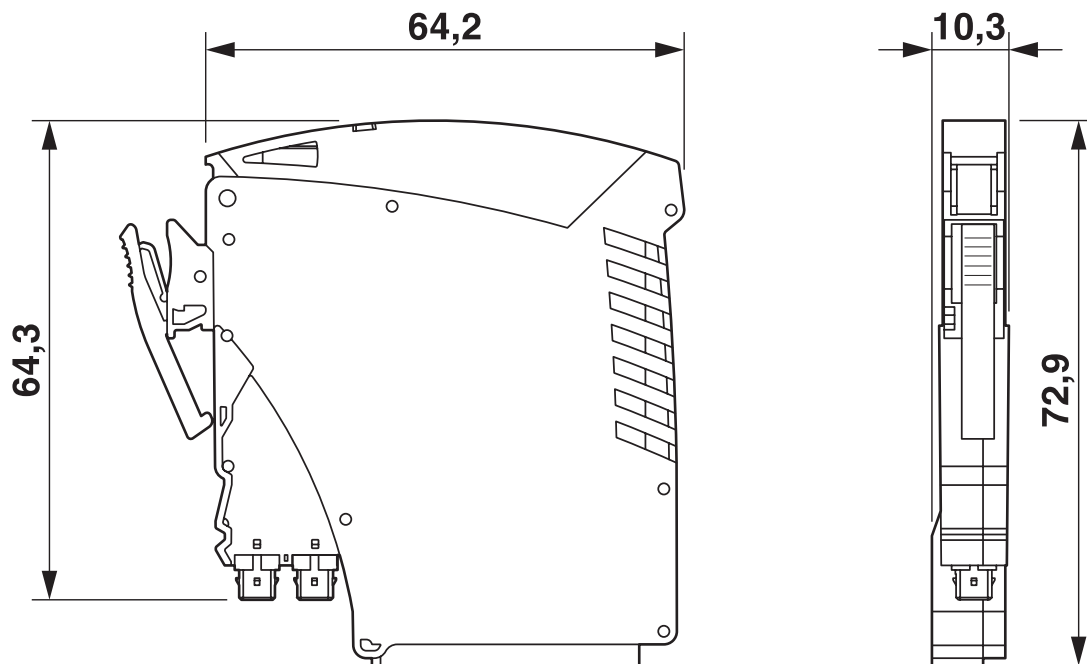
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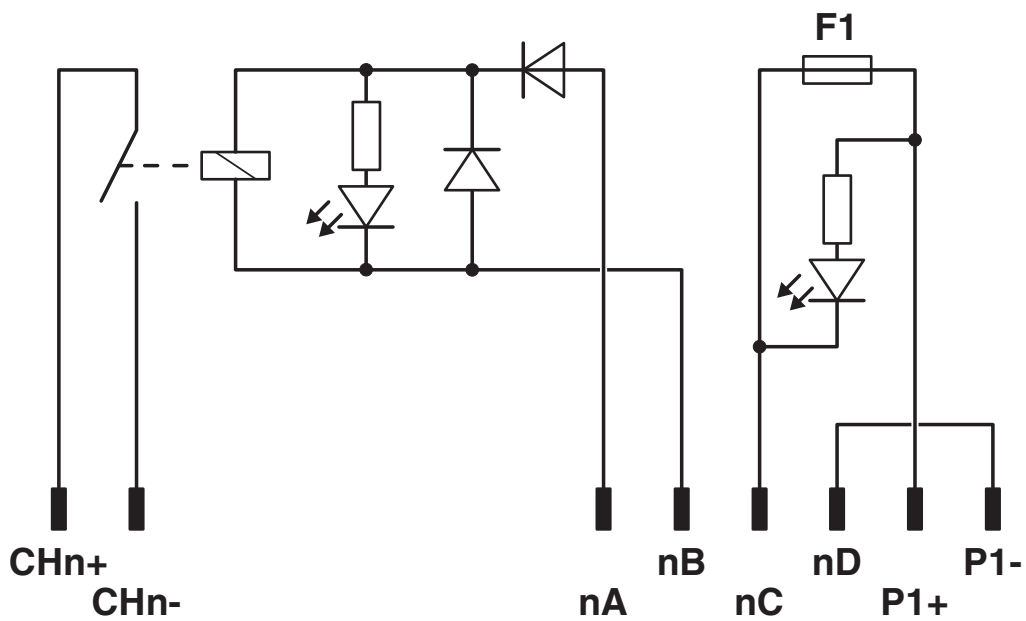
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Drawings

Dimensional drawing



Circuit diagram



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Approvals

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IECEx

Approval ID: IECEx SIR 17.0078X



ATEX

Approval ID: SIRA 17ATEX4293X



CSA

Approval ID: 70134758



CSAus

Approval ID: 70134758



cUL Listed

Approval ID: FILE E 196811



UL Listed

Approval ID: FILE E 196811

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Classifications

ECLASS

ECLASS-13.0	27371601
ECLASS-15.0	27371601

ETIM

ETIM 10.0	EC001437
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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)-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	42c82661-da44-4aa5-8209-cf6c5b76d0a5

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