IOA AI/AO/BFI/DS/0.5A/EX - Input/output module

2906599

https://www.phoenixcontact.com/us/products/2906599

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Fuse module for VIP I/O-Marshalling termination boards with replaceable 0.5 A fuses in the field device supply path and in the signal path. Integrated test points and a disconnect knife allow for uninterrupted signal measurement. HART transparent.

Product description

Fuse module with replaceable 0.5 A fuse in the supply path and in the signal path. This enables field devices to be supplied with voltage directly from the termination board. In addition, the I/O board is protected against short circuits in the signal lines. If a fuse fails, this is indicated by an LED. Test points and a disconnect knife are available in the signal path for uninterrupted signal measurement. The module is installed via a plug-in contact on a compatible VIP I/O-Marshalling termination board. Installation in zone 2, “ec” type of protection is permitted.

Your advantages

- Signal line blown fuse indication
- Two-stage progressive release allowing for voltage checks with field-powered devices
- Channel for marking accessories
- Replaceable TE5-style fusing
- Signal disconnect with test points
- Integrated keying reduces possible user error during replacement
- 24 V internal marshalling option for connected field device with blown fuse indication

Commercial data

Item number	2906599
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C480
Product key	DK115Z
GTIN	4055626295251
Weight per piece (including packing)	73.5 g
Weight per piece (excluding packing)	73 g
Customs tariff number	85371098
Country of origin	US

Technical data

Product properties

Product type	Interface module
Product family	VIP I/O-Marshalling
No. of channels	1
Operating mode	100% operating factor

Insulation characteristics

Overvoltage category	II
Pollution degree	2

Electrical properties

Operating voltage (DC)	24 V DC
Operating voltage U_{max}	≤ 30 V
Current (per branch)	≤ 500 mA (fuse limited)

Input data

Nominal input voltage U_N	24 V DC

Output data

Nominal supply voltage	24 V DC
Continuous load current	500 mA

Connection data

Control circuits

Connection method	Plug-in connection
Number of connections	1
Number of positions	13

Ex data

Safety data

Input voltage U_i	30 V
Input current I_i	500 mA
Inductance Li	0 mH
Capacitance Ci	0 µF
Max. output voltage U_o	U_i
Max. output current I_o	I_i
Max. output power P_o	P_i

Interfaces

Data communication (bypass)

HART function	HART transparency

Protocols supported	HART

Signaling

Status display	no
Status display present	yes, if the fuse fails

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 ... 75 °C
Ambient temperature (storage/transport)	-40 °C ... 75 °C
Altitude	≤ 2000 m
Permissible humidity (operation)	0 % ... 95 % (non-condensing)

Approvals

ATEX

Identification	Ⓔx II 3G Ex ec IIC T4 Gc
Certificate	JSHP 24ATEX0049X

IECEx

Identification	Ex ec IIC T4 Gc
Certificate	IECEx JSH 24.0011X

UKEX

Identification	Ⓔx II 3G Ex ec IIC T4 Gc
Certificate	PxCIF23UKEX2906598X

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 nA IIC T4 Gc
	Ex nA IIC T4 Gc

Standards and regulations

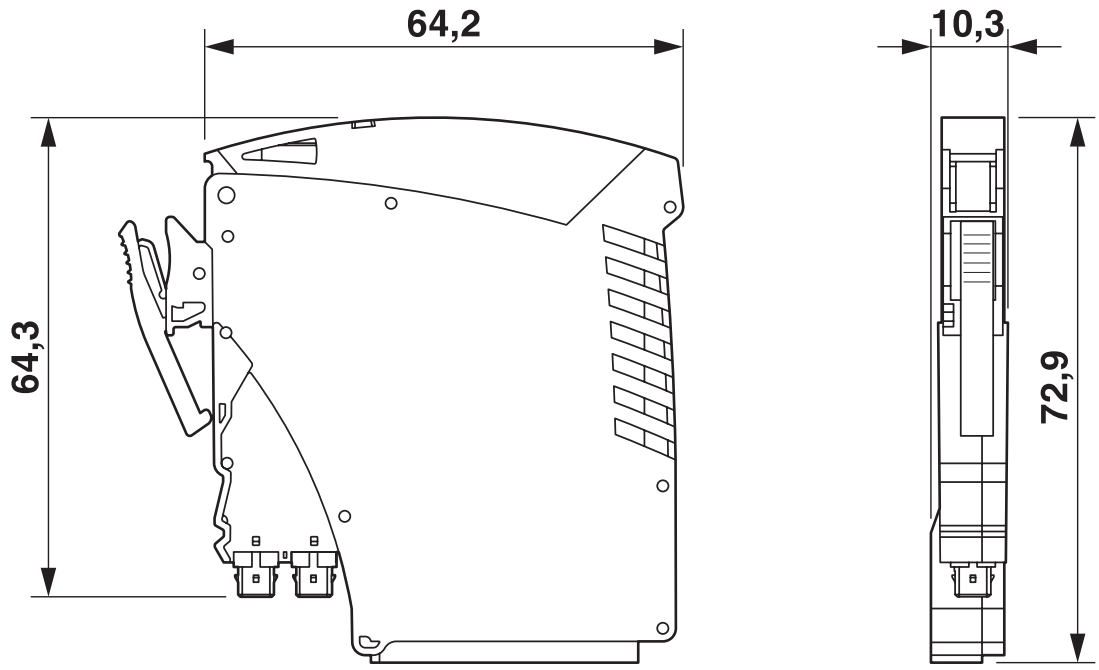
Standards/regulations	IEC 60664
	DIN EN 50178

Mounting

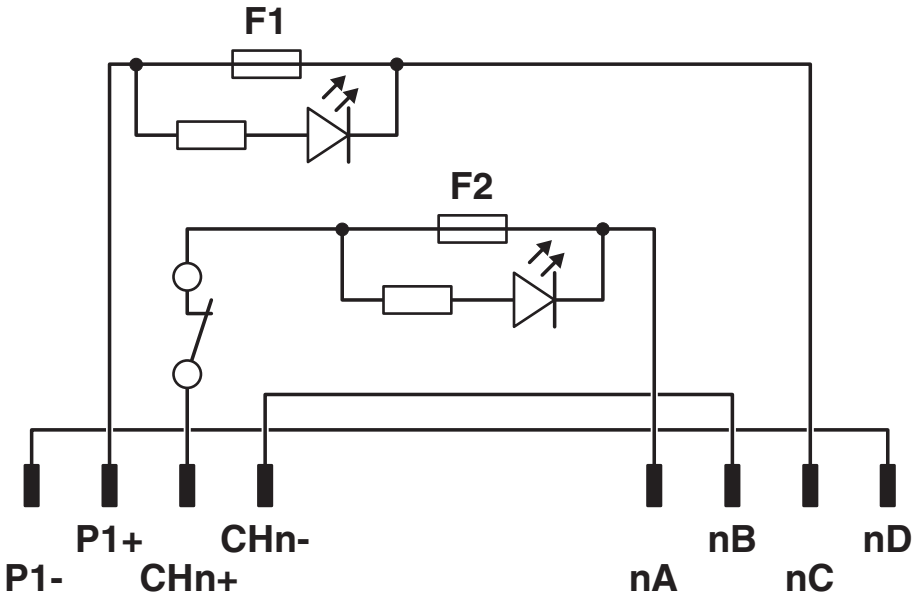
Mounting position	any

Drawings

Dimensional drawing



Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2906599

Functional Safety
Approval ID: PHO 16-09-035

IECEx
Approval ID: IECEx JSP 24.0011X

CSA
Approval ID: 80071103

CSAus
Approval ID: 80071103

cULus Listed
Approval ID: E196811-201707007

ATEX
Approval ID: JSHP 24 ATEX 0049X

Classifications

ECLASS

ECLASS-13.0	27141152
ECLASS-15.0	27141152

ETIM

ETIM 10.0	EC002780

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 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	69f4afb9-412f-42d2-9c9a-f950abaeec28

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