

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 base elements with replaceable 0.5 A fuses in the field device supply path and in the signal path. Integrated test points and a disconnect knife enable uninterrupted signal measurement.

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 base element. 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 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

- 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	CK8211
Catalog page	Page 555 (C-5-2017)
GTIN	4055626295251
Weight per piece (including packing)	73.5 g
Weight per piece (excluding packing)	73 g
Customs tariff number	85389099
Country of origin	US

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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

Max. operating voltage U_{max}	30 V
Max. permissible current	500 mA (fuse limited)
Nominal voltage U_N	24 V DC
Max. current carrying capacity per branch	500 mA (fuse limited)

Output data

Nominal supply voltage	24 V DC
Continuous load current	500 mA

Connection data

Control circuits

Connection method	Pin strip
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 L_i	0 mH
Capacitance C_i	0 μ F
Max. output voltage U_o	U_i
Max. output current I_o	I_i
Max. output power P_o	P_i

Signaling

Status display	No
Status display present	Yes, if the fuse fails

Dimensions

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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	Ⓜ II 3G Ex nA IIC T4 Gc
Certificate	CSANe 21ATEX4128X

IECEX

Identification	Ex nA IIC T4 Gc
Certificate	IECEX CSAE 21.0004X

UKEX

Identification	Ⓜ II 3G Ex nA 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
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Classifications

ECLASS

ECLASS-11.0	27141152
ECLASS-12.0	27141152
ECLASS-13.0	27141152

ETIM

ETIM 9.0	EC002780
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UNSPSC

UNSPSC 21.0	39121400
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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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