

IOA FEED-THRU-DO/NI/EX - Feed-through plug



1172189

<https://www.phoenixcontact.com/us/products/1172189>

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Non-incendive, Ex ic impeding devices for VIP I/O marshalling base elements. For limiting current (60 mA or 80 mA) and voltage (26.4 V DC) on digital outputs. For example, to control solenoid valves in the Ex area (zone 2, CID2).

Product description

Non-incendive, Ex ic impeding devices for controlling solenoid valves, alarm transmitters, or indicators installed in the Ex area. The module output limits the current to 60 mA or 80 mA (various connection terminal blocks) and a max. voltage of 26.4 V DC. 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.

Commercial data

Item number	1172189
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C480
Product key	DK115Z
GTIN	4063151199012
Weight per piece (including packing)	64 g
Weight per piece (excluding packing)	64 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

Insulation characteristics

Overvoltage category	II
Pollution degree	2

Electrical properties

Operating voltage	26.4 V
Current	≤ 48 mA (nA, nB)
	≤ 58.7 mA (nC, nD)

Connection data

Connection method	Plug-in connection
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Ex data

Safety data

Input voltage U_i	26.4 V
Input current I_i	88 mA
Input power P_i	2.32 W
Max. output voltage U_o	CHn+/CHn-
Max. output current I_o	66.8 mA (nA, nB)
	89.4 mA (nC, nD)
Safety-related maximum voltage U_m	26.4 V
IIC: Max. external inductivity L_o / Max. external capacitance C_o	/ 0.25 μ F
IIB/IIIC/IIIB/IIIA: Max. external inductivity L_o / Max. external capacitance C_o	/ 1.58 μ F
IIA: Max. external inductivity L_o / Max. external capacitance C_o	/ 6.3 μ F
IIC: Max. external inductivity L_o / Max. external capacitance C_o	8.7 mH
IIB/IIIC/IIIB/IIIA: Max. external inductivity L_o / Max. external capacitance C_o	34.9 mH
IIA: Max. external inductivity L_o / Max. external capacitance C_o	69.7 mH

Dimensions

Item dimensions

Width	10.3 mm
Height	64.2 mm
Depth	72.9 mm

Material specifications

Color	gray (RAL 7042)
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 75 °C
Altitude	≤ 2000 mm
Permissible humidity (operation)	0 % ... 95 % (non-condensing)

Approvals

ATEX

Identification	⊕ II 3G Ex ec IIC T4 Gc
	⊕ II 3G Ex ic IIC T4 Gc
Certificate	CSANe 20ATEX3152X

IECEX

Identification	Ex ec IIC T4 Gc
	Ex ic IIC T4 Gc
Certificate	IECEX SIR 21.0005X

UKEX

Identification	⊕ II 3G Ex ec IIC T4 Gc
	⊕ II 3G Ex ic IIC T4 Gc
Certificate	PxCIF23UKEX1048208X

CSA, USA/Canada

Identification	Class I, Div. 2, Groups A, B, C, D
	Class I, Zone 2, AEx ic IIC T4 Gc
	ANIFW apparatus for connection to: Class I, II, III, Div. 2 Groups A, B, C, D, F, G
	Ex ic IIC T4 Gc
	Ex ec IIC T4 Gc
Certificate	CSA 21CA80047687X

Standards and regulations

Standards/regulations	IEC 60664
	DIN EN 50178

Mounting

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

Drawings

Schematic diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1172189>



Functional Safety

Approval ID: 1435.IM.131623/19



IECEX

Approval ID: IECEx SIR 21.0005X



ATEX

Approval ID: CSANe 20ATEX3152X



CSA

Approval ID: 80047687



CSAus

Approval ID: 80047687

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Classifications

ECLASS

ECLASS-13.0	27141152
ECLASS-15.0	27141152

ETIM

ETIM 10.0	EC002780
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	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	6c523822-c21c-4bbc-82cf-a70d31254ab8

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