

IOA LM-DI/R/RUSIO/EX - Monitoring block



1048209

<https://www.phoenixcontact.com/us/products/1048209>

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Cable monitoring module for VIP I/O marshalling base elements. Enables cable fault monitoring when using standard switching contacts in safety applications. Both wire breaks and short circuits can be detected.

Product description

Cable monitoring module for use in safety circuits. The module enables the detection of wire breaks and short circuits between IOA and I/O cards when using simple switching contacts. To do so, a 7.5 k Ω resistance connected in series to the measuring signal and a 15 k Ω resistor is also connected in parallel. 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	1048209
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C480
Product key	DK115Z
GTIN	4055626651125
Weight per piece (including packing)	53.5 g
Weight per piece (excluding packing)	53.5 g
Customs tariff number	85371098
Country of origin	US

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Technical data

Product properties

Product type	Interface module
Product family	VIP I/O-Marshalling
Number of positions	1

Insulation characteristics

Overvoltage category	II
Pollution degree	2

Electrical properties

Operating voltage U_{\max}	≤ 30 V
Current	≤ 6 mA (Signal)

Ex data

Safety data

Input voltage U_i	30 V
Input current I_i	6 mA
Inductance L_i	0 mH
Capacitance C_i	0 μ F
Max. output voltage U_o	U_i
Max. output current I_o	4 mA
Max. output power P_o	120 mW

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

Approvals

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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

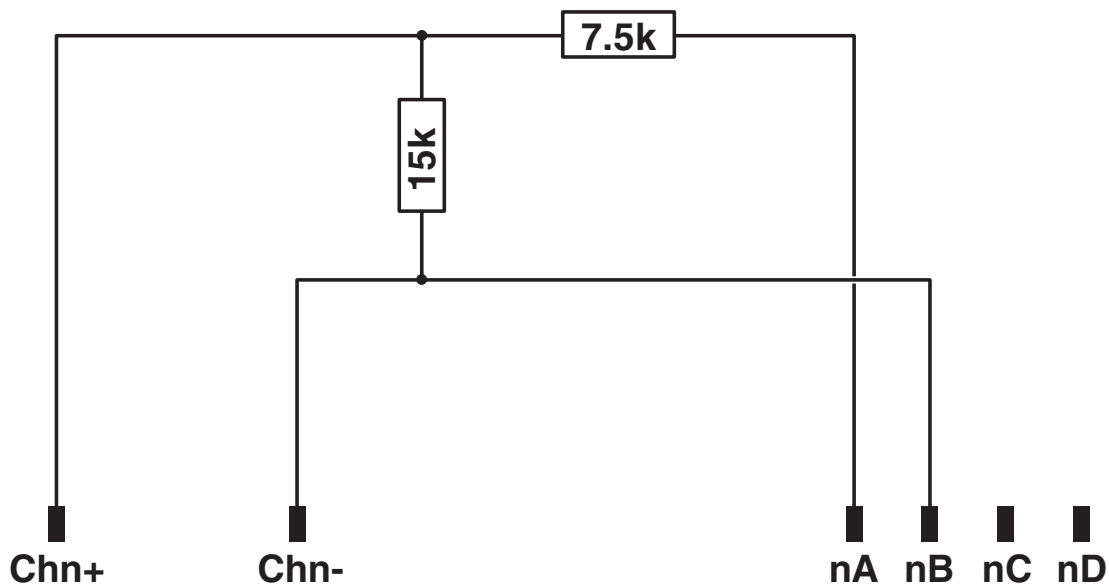
Mounting type	Plug-in mounting
Assembly note	Plugs into VIP/...BASE...
Mounting position	any

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Drawings

Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1048209>

Functional Safety

Approval ID: PHO 1609035



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(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.)	No substance above 0.1 wt%
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