

# IOA LM-DI/R/RUSIO/EX - Monitoring module



1048209

<https://www.phoenixcontact.com/pc/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 $\Omega$  resistance connected in series to the measuring signal and a 15 k $\Omega$  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
Note	Made to order (non-returnable)
Product key	CK8291
GTIN	4055626651125
Weight per piece (including packing)	53.5 g
Weight per piece (excluding packing)	53.5 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
Number of positions	1

### Insulation characteristics

Overvoltage category	II
Pollution degree	2

### Electrical properties

Max. operating voltage $U_{max}$	30 V
Max. permissible 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 $\mu$ F
Max. output voltage $U_o$	$U_i$
Max. output current $I_o$	4 mA
Max. output power $P_o$	120 mW

### Dimensions

Width	10.3 mm
Height	64.2 mm
Depth	72.9 mm

### 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

#### ATEX

Identification	Ⓔ II 3G Ex ec IIC T4 Gc
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#### IECEX

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Identification	Ex ec IIC T4 Gc
	Ex ic IIC T4 Gc

## UKEX

Identification	Ⓜ II 3G Ex ec IIC T4 Gc
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## CSA, USA/Canada

Identification	Class I, Div. 2, Groups A, B, C, D
	Ex ic IIC T4 Gc
	Ex ec IIC T4 Gc

## Standards and regulations

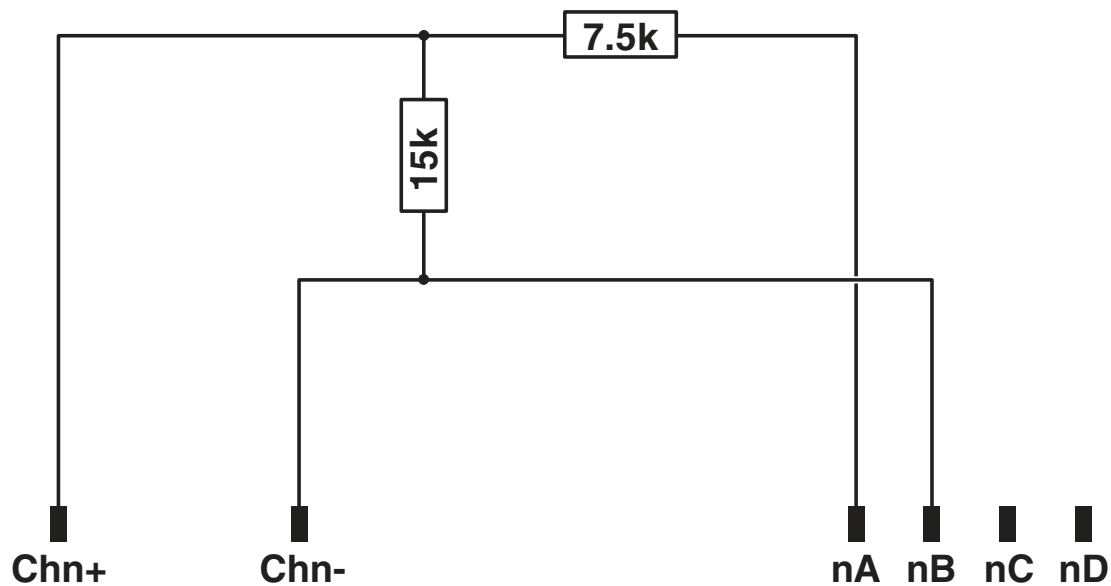
Standards/regulations	IEC 60664
	DIN EN 50178

## Mounting

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

## Drawings

Circuit diagram



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## Approvals

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



**IECEx**

Approval ID: IECEx SIR 21.0005X



**ATEX**

Approval ID: CSANe 20ATEX3152X



**CSA**

Approval ID: 80047687



**CSAus**

Approval ID: 80047687

**cCSAus**

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## Classifications

### ECLASS

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

### ETIM

ETIM 8.0	EC002780
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### UNSPSC

UNSPSC 21.0	39121400
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## Accessories

### UC-TM 6 - Marker for terminal blocks

0818085

<https://www.phoenixcontact.com/pc/products/0818085>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 80

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### ZB 5,08:UNBEDRUCKT - Zack marker strip

0809793

<https://www.phoenixcontact.com/pc/products/0809793>



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 5.08 mm, lettering field size: 4.98 x 10.5 mm, Number of individual labels: 10

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## UC-TM 10 - Marker for terminal blocks

0818069

<https://www.phoenixcontact.com/pc/products/0818069>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 10.2 mm, lettering field size: 9.6 x 10.5 mm, Number of individual labels: 48

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## UC-TM 10 BU - Marker for terminal blocks

0818441

<https://www.phoenixcontact.com/pc/products/0818441>



Marker for terminal blocks, Sheet, blue, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 10.2 mm, lettering field size: 9.6 x 10.5 mm, Number of individual labels: 48



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## VIP/S/MC/BASE 1-8/L/EX - Base module

2906596

<https://www.phoenixcontact.com/pc/products/2906596>



8-channel VIP I/O marshalling base element for universal use. All connections as screw connection technology. With the COMBICON connector, compatible with the Honeywell C300 and RUSIO series. Marking for channels 1–8.

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## VIP/S/MC/BASE 9-16/L/EX - Base module

2906630

<https://www.phoenixcontact.com/pc/products/2906630>



8-channel VIP I/O marshalling base element for universal use. All connections as screw connection technology. With the COMBICON connector, compatible with the Honeywell C300 and RUSIO series. Marking for channels 9–16.

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## VIP/S/MC/BASE 17-24/L/EX - Base module

2907024

<https://www.phoenixcontact.com/pc/products/2907024>



8-channel VIP I/O marshalling base element for universal use. All connections as screw connection technology. With the COMBICON connector, compatible with the Honeywell C300 and RUSIO series. Marking for channels 17–24.

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## VIP/S/MC/BASE 25-32/L/EX - Base module

2907025

<https://www.phoenixcontact.com/pc/products/2907025>



8-channel VIP I/O marshalling base element for universal use. All connections as screw connection technology. With the COMBICON connector, compatible with the Honeywell C300 and RUSIO series. Marking for channels 25–32.

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## VIP/S/MC/BASE 1-8/L/C/EX - Base module

2907186

<https://www.phoenixcontact.com/pc/products/2907186>



8-channel VIP I/O marshalling base element for universal use. All connections as screw connection technology. With the COMBICON connector, compatible with the Honeywell C300 and RUSIO series. Marking for channels 1–8 and painting.

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## VIP/S/MC/BASE 9-16/L/C/EX - Base module

2907187

<https://www.phoenixcontact.com/pc/products/2907187>



8-channel VIP I/O marshalling base element for universal use. All connections as screw connection technology. With the COMBICON connector, compatible with the Honeywell C300 and RUSIO series. Marking for channels 9–16 and painting.

# IOA LM-DI/R/RUSIO/EX - Monitoring module

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## VIP/S/MC/BASE 17-24/L/C/EX - Base module

2907209

<https://www.phoenixcontact.com/pc/products/2907209>



8-channel VIP I/O marshalling base element for universal use. All connections as screw connection technology. With the COMBICON connector, compatible with the Honeywell C300 and RUSIO series. Marking for channels 17–24 and painting.

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## VIP/S/MC/BASE 25-32/L/C/EX - Base module

2907210

<https://www.phoenixcontact.com/pc/products/2907210>



8-channel VIP I/O marshalling base element for universal use. All connections as screw connection technology. With the COMBICON connector, compatible with the Honeywell C300 and RUSIO series. Marking for channels 25–32 and painting.

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## VIP/S/D25M/BASE 1-8/L/C/EX - Base module

2906595

<https://www.phoenixcontact.com/pc/products/2906595>



8-channel VIP I/O marshalling base element for universal use. All connections as screw connection technology. This module with the D-SUB 25 connector is pin compatible with the Foxboro I/A series DCS.

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## VIP/MSTB/D50M/BASE/16CH/CX/EX - Base module

2908788

<https://www.phoenixcontact.com/pc/products/2908788>



16-channel VIP I/O marshalling base element for universal use. Plug-in field and supply terminals available as accessories. Either with screw or Push-in connection technology. Compatible with the Tricon CX DCS series (D-SUB 50).

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