

# PI-N-NAM/RNO - Signal monitoring block



2835888

<https://www.phoenixcontact.com/us/products/2835888>

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Non-Ex binary input: NAMUR isolation amplifiers. For operating proximity sensors and switches. The binary signals from the field are sent to the control level. Relay output (N/O contact), line fault detection. Electrical isolation.

## Commercial data

Item number	2835888
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C430
Product key	DK1XXX
GTIN	4017918907396
Weight per piece (including packing)	83.7 g
Weight per piece (excluding packing)	68.11 g
Customs tariff number	85437090
Country of origin	DE

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## Technical data

### Product properties

Product type	Isolating switch amplifier
Application	Digital IN
No. of channels	1

### Electrical properties

Electrical isolation between input and output	yes
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#### Electrical isolation Input/power supply

Electrical isolation	250 V
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#### Electrical isolation Output/supply

Test voltage	1.5 kV AC (50 Hz, 60 s)
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### Supply

Supply voltage range	20 V DC ... 30 V DC
Max. current consumption	30 mA
Power consumption	0.55 W (24 V)

### Input data

#### Signal: NAMUR

Number of inputs	1
Available input sources	NAMUR proximity sensors (IEC/EN 60947-5-6) floating switch contacts Switch contacts with resistance circuit
Switching threshold "0" signal current	< 1.2 mA (blocking)
Switching threshold "1" signal, current	> 2.1 mA (conductive)
Line fault detection	can be enabled/disabled via switch
Open-circuit voltage	8.2 V DC $\pm$ 10 %

### Output data

#### Switching: Relay

Configurable/programmable	Can be inverted via slide switch
Contact switching type	N/O contact, reversal options, SPST
Contact material	AgSnO, hard gold-plated
Limiting continuous current	50 mA (for gold layer, 30 V AC/ 36 V DC) 3 A (In the event of destroyed gold layer, 250 V AC/DC)
Min. switching current	1 mA

#### Signal

Number of outputs	1
Switching behavior	Can be inverted via slide switch

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Switching frequency	max. 20 Hz (Load-dependent)
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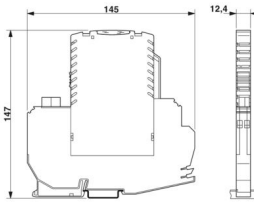
## Connection data

Connection method	Screw connection
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## Signaling

Status display	Green LED (supply voltage)
	Yellow LED (status display)
	Red LED (line errors)

## Dimensions

Dimensional drawing	
Width	12.4 mm
Depth	147 mm

## Material specifications

Color	green (RAL 6021)
Flammability rating according to UL 94	V0
Housing material	PBT and polyamide PA non-reinforced

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C

## Approvals

### CE

Certificate	CE-compliant
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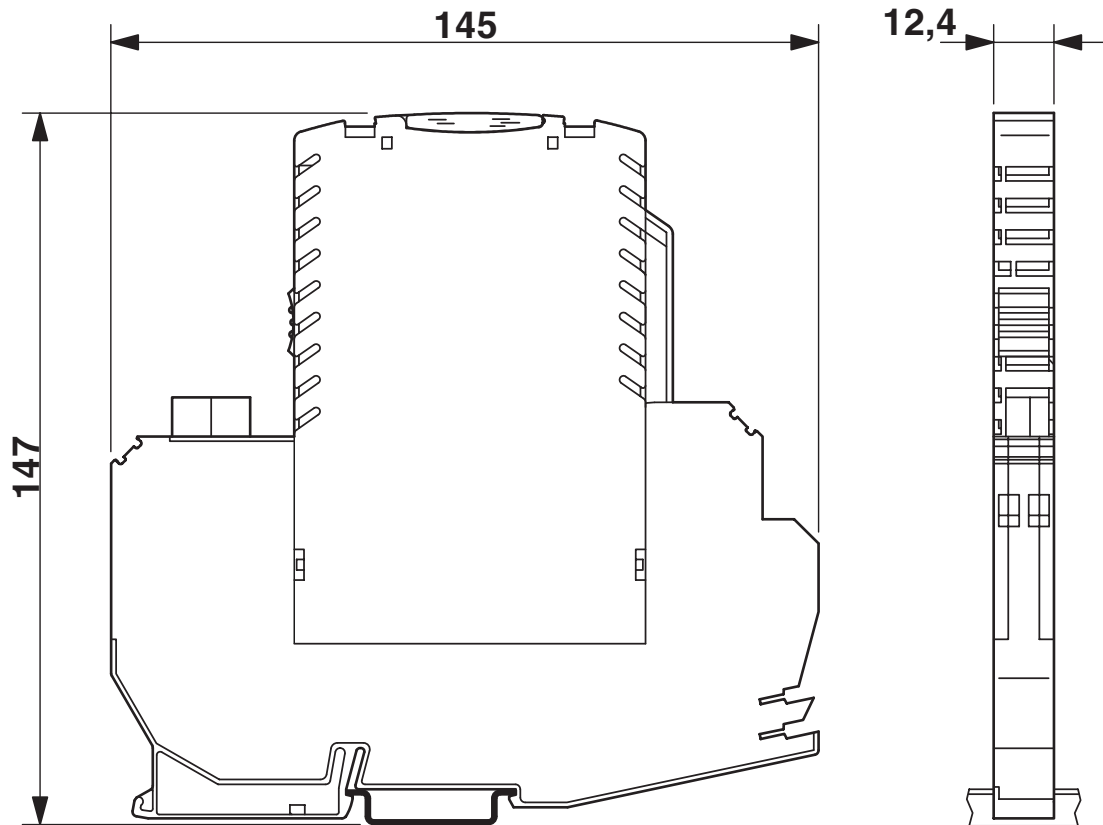
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## Drawings

Dimensional drawing

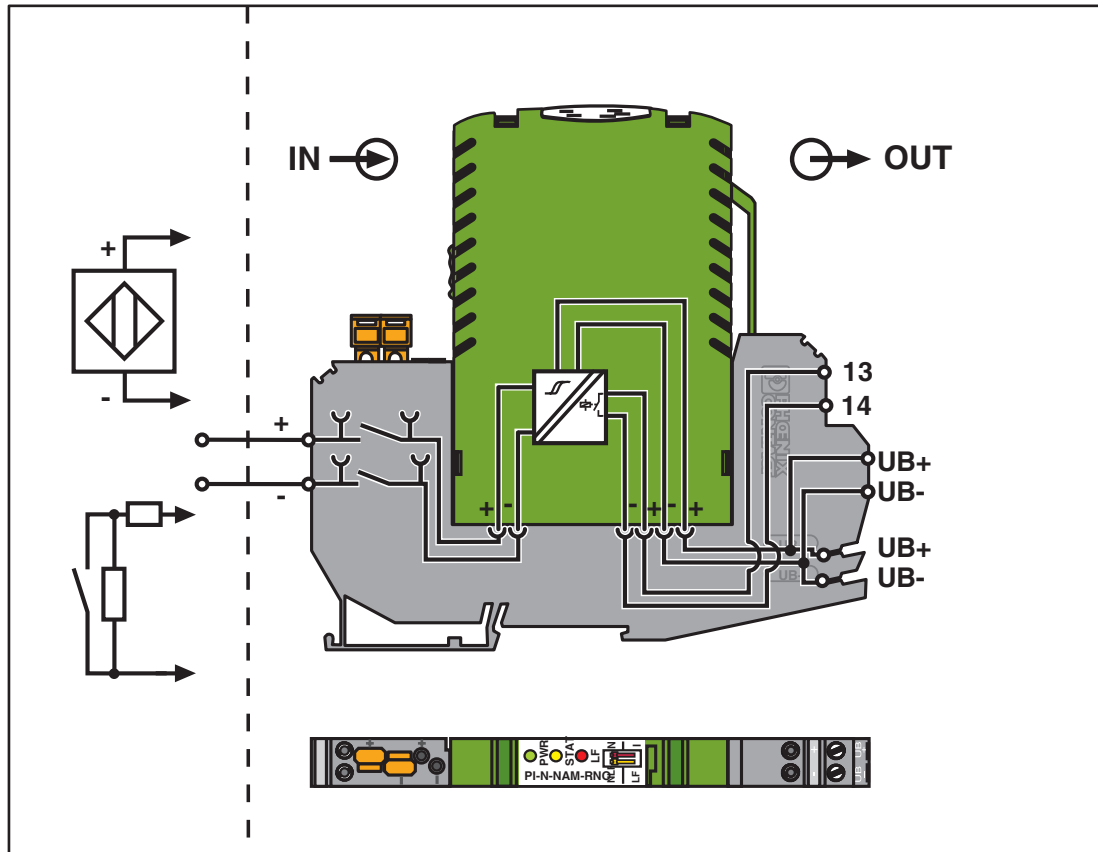


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Block diagram



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## Environmental product compliance

### 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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