

PI-EX-NAM/RNO-NE - Signal isolator



2835341

<https://www.phoenixcontact.com/pc/products/2835341>

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Ex i binary input: NAMUR isolation amplifiers. For operating proximity sensors and switches in Ex areas. The binary signals are transmitted to a safe area. Relay output (N/O contact), line fault detection. Galvanic 3-way isolation.

Commercial data

Item number	2835341
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CK3831
Catalog page	Page 458 (IF-2009)
GTIN	4017918178468
Weight per piece (including packing)	103.1 g
Weight per piece (excluding packing)	99.3 g
Customs tariff number	85365019
Country of origin	DE

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Technical data

Notes

General	The electronics module is plugged into a basic terminal block.
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Product properties

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

Electrical properties

Electrical isolation	3-way isolation
Electrical isolation between input and output	yes
Line monitoring	NE 21
Maximum power dissipation for nominal condition	0.8 W (24 V DC)

Electrical isolation Input/output

Electrical isolation	375 V (Peak value as per EN 50020 / EN 60079-11)
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Electrical isolation Input/power supply

Electrical isolation	375 V (Peak value as per EN 50020 / EN 60079-11)
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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	max. 40 mA
Power consumption	max. 0.8 W (24 V)

Input data

Signal: NAMUR

Description of the input	Intrinsically safe
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	< 0.05 mA (Line break)
	100 Ω ... 360 Ω (Short circuit)
	can be enabled/disabled via switch
Non-load voltage	8.2 V DC $\pm$ 10 %

Output data

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Switching: Relay

Configurable/programmable	Can be inverted via slide switch
Contact switching type	N/O contact
Contact material	AgSnO, hard gold-plated
Limiting continuous current	1 A (30 V DC) 0.5 A (125 V AC)
Min. switching current	1 mA

Signal

Number of outputs	1
Switching behavior	Can be inverted via slide switch
Switching frequency	max. 14 Hz (Load-dependent)

Connection data

Connection method	Screw connection
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Ex data

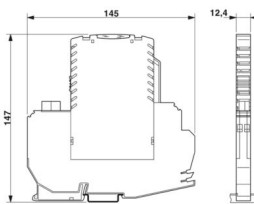
Safety data

Max. output voltage U_o	10.6 V
Max. output current I_o	33 mA
Max. output power P_o	86 mW
Safety-related maximum voltage U_m	250 V AC
IIA: Max. external inductivity L_o / Max. external capacitance C_o	230 mH / 72 μ F
IIB: Max. external inductivity L_o / Max. external capacitance C_o	110 mH / 16.2 μ F
IIC: Max. external inductivity L_o / Max. external capacitance C_o	30 mH / 2.3 μ F

Signaling

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

Dimensions

Dimensional drawing	
Width	12.4 mm
Height	79 mm
Depth	118.4 mm

Material specifications

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

Characteristics

Safety data: IEC 61508 - Low demand

Safety Integrity Level (SIL)	2
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	max. -20 °C ... 60 °C (see data sheet)
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Approvals

CE

Certificate	CE-compliant
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ATEX

Identification	⊕ II (1) G [Ex ia Ga] IIC
	⊕ II (1) D [Ex ia Da] IIIC
	⊕ II 3 G Ex nA nC IIC T4 Gc
Certificate	PxCIF07ATEX2835341X

UL, USA/Canada

Identification	applied for
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Safety Integrity Level (SIL, IEC 61508)

Identification	2
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EAC Ex

Identification	ERC [Ex ia Ga] IIC
Certificate	RU C-DE.AB72.B.00097/19

Standards and regulations

Electrical isolation	3-way isolation
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Standards

Standards/regulations	NAMUR recommendation NE 21
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