

Signal isolator - PI-EX-NAM/RNC-NE - 2835367

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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/C contact), line fault detection. Galvanic 3-way isolation.



Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 178475
GTIN	4017918178475

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	12.4 mm
Height	145 mm
Depth	147 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C (vertical assembly)
	-20 °C ... 55 °C (horizontal assembly)
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Permissible humidity (operation)	5 % ... 95 % (relative humidity, non-condensing)
Noise immunity	EN 61326:1997

Input data

Control current circuit	Intrinsically safe
Available input sources	NAMUR proximity sensors
	Floating switch contacts

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Input data

	Switch contacts with resistance circuit
Non-load voltage	8.2 V DC $\pm 10\%$
Switching points (attenuated)	< 1.2 mA (attenuated in acc. with EN 60947-5-6)
Switching points (unattenuated)	> 2.1 mA (non-attenuated in acc. with EN 60947-5-6)
Line error detection	Activated /deactivated via DIP switch

Output data

Switching output	Relay output
Configurable/programmable	Switching behavior can be inverted via DIP switch
Contact type	N/C contact
Contact material	AgSnO, hard gold-plated
Limiting continuous current	1 A (30 V DC)
	0.5 A (125 V AC)
Min. contact current	1 mA
Mechanical service life	10 ⁷ cycles
Service life, electrical	2x 10 ⁵ cycles (at full load)

Power supply

Supply voltage range	20 V DC ... 30 V DC
Max. current consumption	max. 40 mA
Power dissipation	max. 0.8 W (24 V)

General

No. of channels	1
Test voltage input/output	1.5 kV AC
Insulation voltage input/output/supply	0.25 kV _{rms}
Status display	Green LED (supply voltage)
	Yellow LED (status display)
	Red LED (line errors)
Flammability rating according to UL 94	V0
Electromagnetic compatibility	Conformance with EMC directive 89/336/EC
Interference emission	EN 61326:1997
Housing material	Polyamide PA non-reinforced
Color	green

Safety data

Max. output voltage U _o	10.6 V
Max. output current I _o	33 mA
Max. output power P _o	86 mW
Group	IIA
Max. external inductivity L _o	230 mH
Max. external capacity C _o	72.9 μ F

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Safety data

Group	IIB
Max. external inductivity L_o	110 mH
Max. external capacity C_o	16.2 μ F
Group	IIC
Max. external inductivity L_o	30 mH
Max. external capacity C_o	2.3 μ F
EEX specification	[EEx ia] IIC, EX II (1)GD, KEMA 00 ATEX 1126

Standards and Regulations

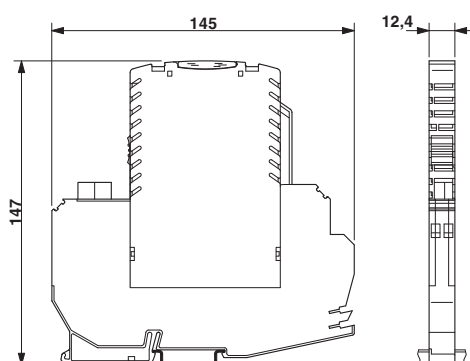
Electromagnetic compatibility	Conformance with EMC directive 89/336/EC
Noise emission	EN 61326:1997
Noise immunity	EN 61326:1997
Flammability rating according to UL 94	V0
Group	IIA
	IIB
	IIC
EEX specification	[EEx ia] IIC, EX II (1)GD, KEMA 00 ATEX 1126

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Dimensional drawing



Approvals

Approvals

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Approvals

Approvals

EAC

Ex Approvals

ATEX

Approval details

EAC		RU C- DE.A*30.B.01742
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