

## Signal isolator - PI-EX-NAM/TO - 2835574

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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. Transistor output (active), line fault detection. Electrical isolation.



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 894863
GTIN	4017918894863
Weight per Piece (excluding packing)	95.100 g
Custom tariff number	85437090
Country of origin	Germany

### 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	79 mm
Depth	118.4 mm

#### Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C (see data sheet)
Ambient temperature (storage/transport)	-40 °C ... 85 °C

#### Input data

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## Technical data

### Input data

Non-load voltage	8.2 V DC $\pm$ 10 %
Switching points (attenuated)	< 1.2 mA (blocking)
Switching points (unattenuated)	> 2.1 mA (conductive)
Signal input	Intrinsically safe
Available input sources	NAMUR proximity sensors (EN 60947-5-6)

### Output data

Switching output	Transistor output, active, pnp
Configurable/programmable	Can be inverted via slide switch
Switching current	100 mA (short-circuit-proof)
Switching frequency	max. 1.2 kHz (DC)

### Power supply

Supply voltage range	20 V DC ... 30 V DC
Max. current consumption	25 mA
Power consumption	max. 0.6 W (24 V)

### General

No. of channels	1
Status display	Green LED (supply voltage) Yellow LED (status display) Red LED (line errors)
Standards/regulations	NAMUR recommendation NE 21
Housing material	PBT and polyamide PA non-reinforced
Color	green
Designation	Input/output
Electrical isolation	375 V (Peak value as per EN 50020 / EN 60079-11)
Designation	Input/power supply
Electrical isolation	375 V (Peak value as per EN 50020 / EN 60079-11)

### 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 capacitance $C_o$	72 $\mu$ F
Group	IIB
Max. external inductivity $L_o$	110 mH

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### Technical data

#### Safety data

Max. external capacitance $C_o$	16.2 $\mu$ F
Group	IIC
Max. external inductivity $L_o$	30 mH
Max. external capacitance $C_o$	2.3 $\mu$ F
Safety-related maximum voltage $U_m$	250 V AC

#### Standards and Regulations

Standards/regulations	NAMUR recommendation NE 21
Conformance	CE-compliant
ATEX	# II (1) GD [EEx ia] IIC # II 3 G Ex nA II T4 X
UL, USA/Canada	UL applied for
Group	IIA IIB IIC

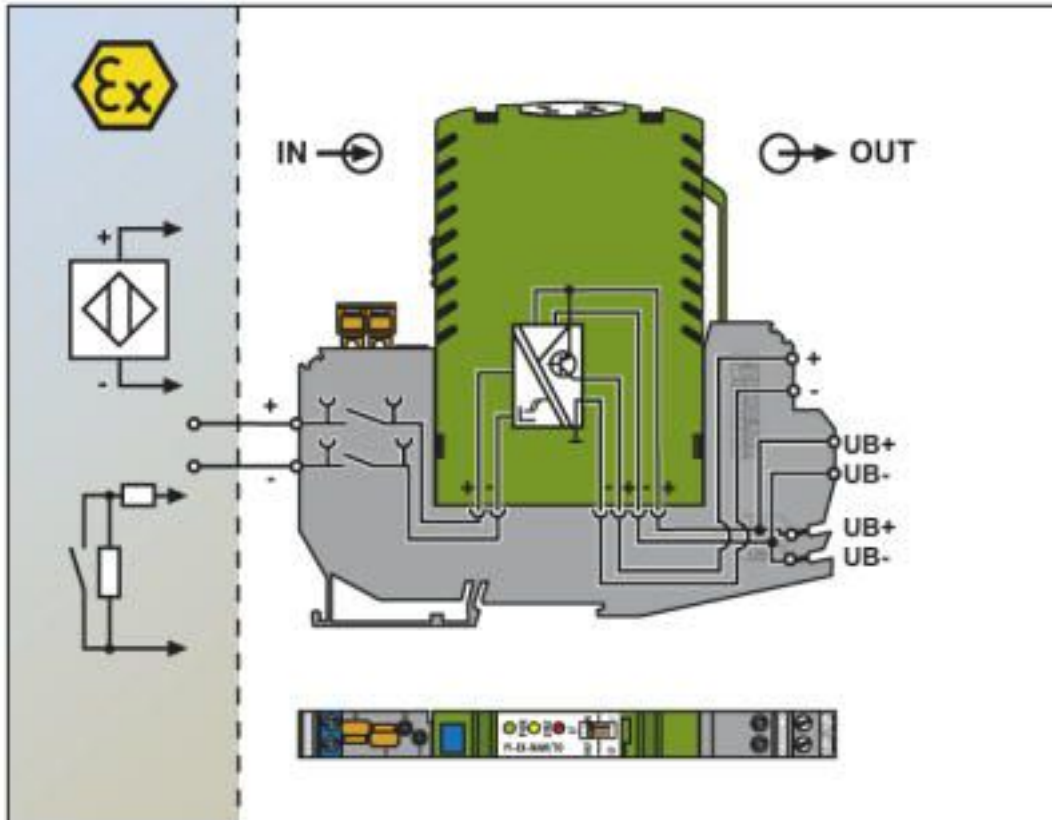
#### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

### Drawings

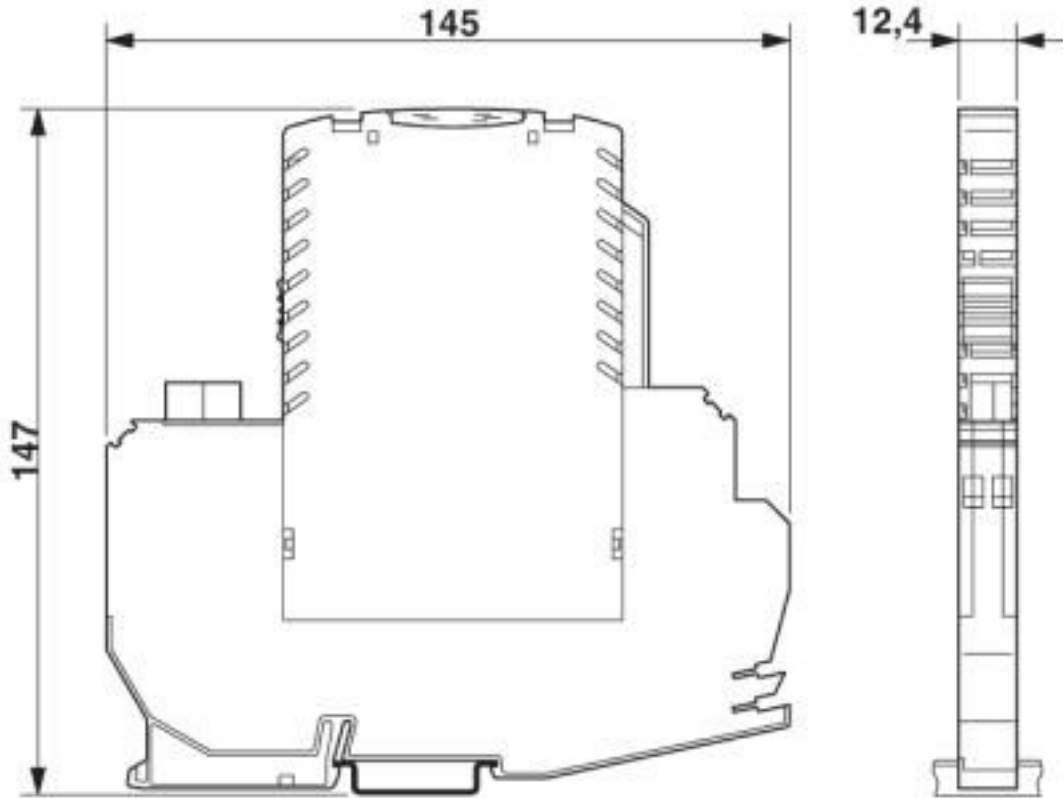
# Signal isolator - PI-EX-NAM/TO - 2835574

Block diagram



# Signal isolator - PI-EX-NAM/TO - 2835574

Dimensional drawing



## Classifications

### eCl@ss

eCl@ss 4.0	27210100
eCl@ss 4.1	27210100
eCl@ss 5.0	27210100
eCl@ss 5.1	27210100
eCl@ss 6.0	27210100
eCl@ss 7.0	27210121
eCl@ss 8.0	27210121
eCl@ss 9.0	27210121

### ETIM

ETIM 2.0	EC001485
ETIM 3.0	EC001485
ETIM 4.0	EC001485
ETIM 5.0	EC001485

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## Classifications

### ETIM

ETIM 6.0	EC001485
ETIM 7.0	EC001485

### UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	39121008
UNSPSC 18.0	39121008
UNSPSC 19.0	39121008
UNSPSC 20.0	39121008
UNSPSC 21.0	39121008

## Approvals

### Approvals

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#### Approvals

EAC


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#### Ex Approvals

ATEX / ATEX / ATEX / ATEX / EAC Ex

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### Approval details

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

### Additional products

## Signal isolator - PI-EX-NAM/TO - 2835574

### Accessories

Basic terminal block - PI-EX-TB - 2835901



Ex base terminal block for intrinsically safe signals with knife disconnection and test connections

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Surge protection device - TT-PI-EX-TB - 2858386



Intrinsically safe basic terminal block with isolating connector, test connections and surge protection, for mounting on NS 35/7.5

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Basic terminal block - PI-EX-ES-1/3 - 2835325



Ex basic terminal block, with three terminal points to the field level (Ex area)

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