

# PI-EX-ME-2NAM/TO-A - Signal isolator



2835778

<https://www.phoenixcontact.com/us/products/2835778>

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Intrinsically safe NAMUR switching amplifier with active transistor output, 2-channel.



## Commercial data

Item number	2835778
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C430
Product key	DK1XXX
GTIN	4017918901974
Weight per piece (including packing)	170.4 g
Weight per piece (excluding packing)	142.08 g
Customs tariff number	85438995
Country of origin	DE

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## Technical data

### Product properties

Product type	Signal conditioner
Application	Digital IN
No. of channels	2

### Electrical properties

Test voltage input/output	1.5 kV AC (50 Hz, 60 s)
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#### Electrical isolation Input/output

Electrical isolation	375 V (Peak value, in acc. with EN 50020)
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#### Electrical isolation Input/power supply

Electrical isolation	375 V (Peak value, in acc. with EN 50020)
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#### Supply

Supply voltage range	20 V DC ... 30 V DC
Max. current consumption	< 45 mA (24 V DC)
Power consumption	0.5 W (per channel)

### Input data

Signal: NAMUR

Description of the input	intrinsically safe
Available input sources	NAMUR proximity sensors (IEC/EN 60947-5-6)
	floating switch contacts
	Switch contacts with resistance circuit
Switching threshold "0" signal current	< 1.55 mA (blocking)
Switching threshold "1" signal, current	> 1.75 mA (conductive)
Line fault detection	Can be disconnected by bridging X1, X2 or X5, X6
Open-circuit voltage	8.5 V DC

### Output data

Switching: Transistor

Configurable/programmable	Can be inverted via a switch in the front of the housing
Maximum switching voltage	24 V DC (internal)
Continuous load current	max. 100 mA (short-circuit-proof)

Signal

Switching behavior	can be inverted via a switch in the front of the housing
Switching frequency	max. 1200 Hz

### Connection data

Connection method	Pluggable screw connection
Stripping length	8 mm

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Screw thread	M3
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 14
Tightening torque	0.5 Nm ... 0.6 Nm

## Ex data

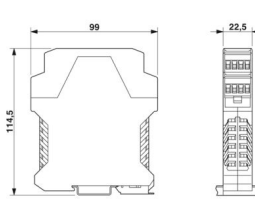
### Safety data

Max. output voltage $U_o$	10.5 V
Max. output current $I_o$	26 mA
Max. output power $P_o$	67 mW
Safety-related maximum voltage $U_m$	250 V AC
IIB: Max. external inductivity $L_o$ / Max. external capacitance $C_o$	160 mH / 16.8 $\mu$ F
IIC: Max. external inductivity $L_o$ / Max. external capacitance $C_o$	45 mH / 2.41 $\mu$ F

## Signaling

Status display	Green LED (supply voltage)
	LED yellow (switching state)
	Red LED (line errors)

## Dimensions

Dimensional drawing	
Width	22.5 mm
Height	99 mm
Depth	114.5 mm

## Material specifications

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

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 80 °C
Permissible humidity (operation)	≤ 75 % (annual average)
	≤ 95 % (30 days/year, non-condensing)

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## Approvals

### CE

Certificate	CE-compliant
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### ATEX

Identification	⊕ II (1)GD
	[EEx ia] IIC
Certificate	TÜV 00 ATEX 1527

### UL, USA/Canada

Identification	cULus
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## Standards and regulations

### Standards

Standards/regulations	NAMUR recommendation NE 21
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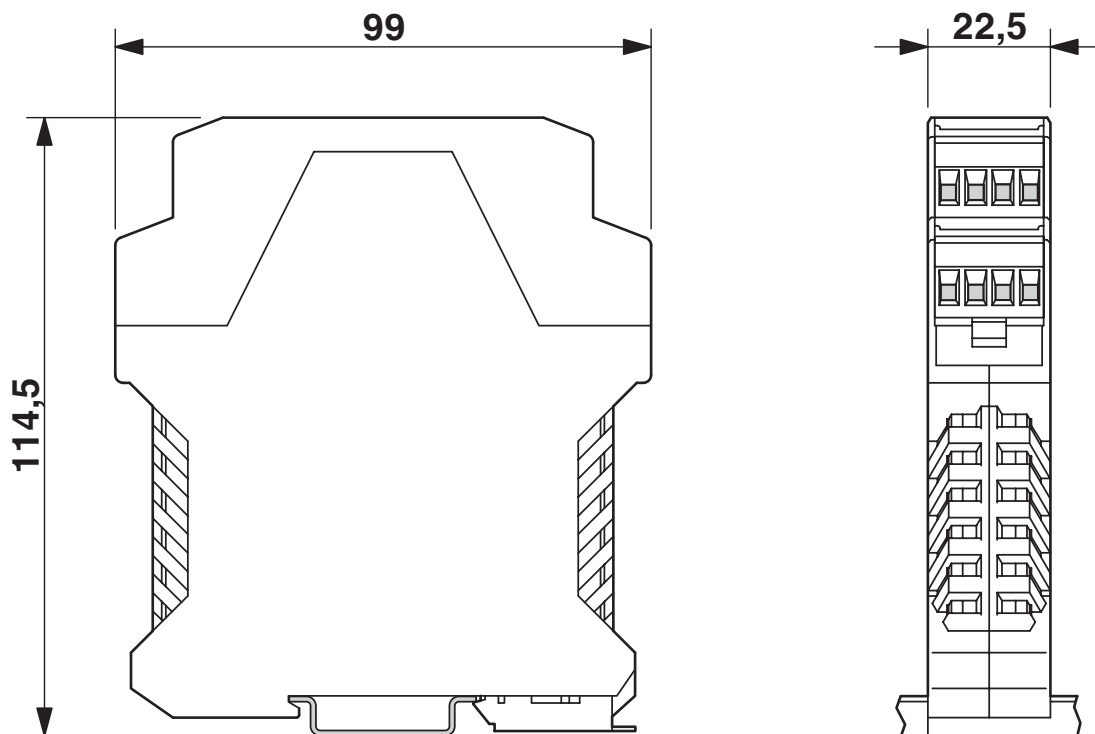
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## Drawings

Dimensional drawing

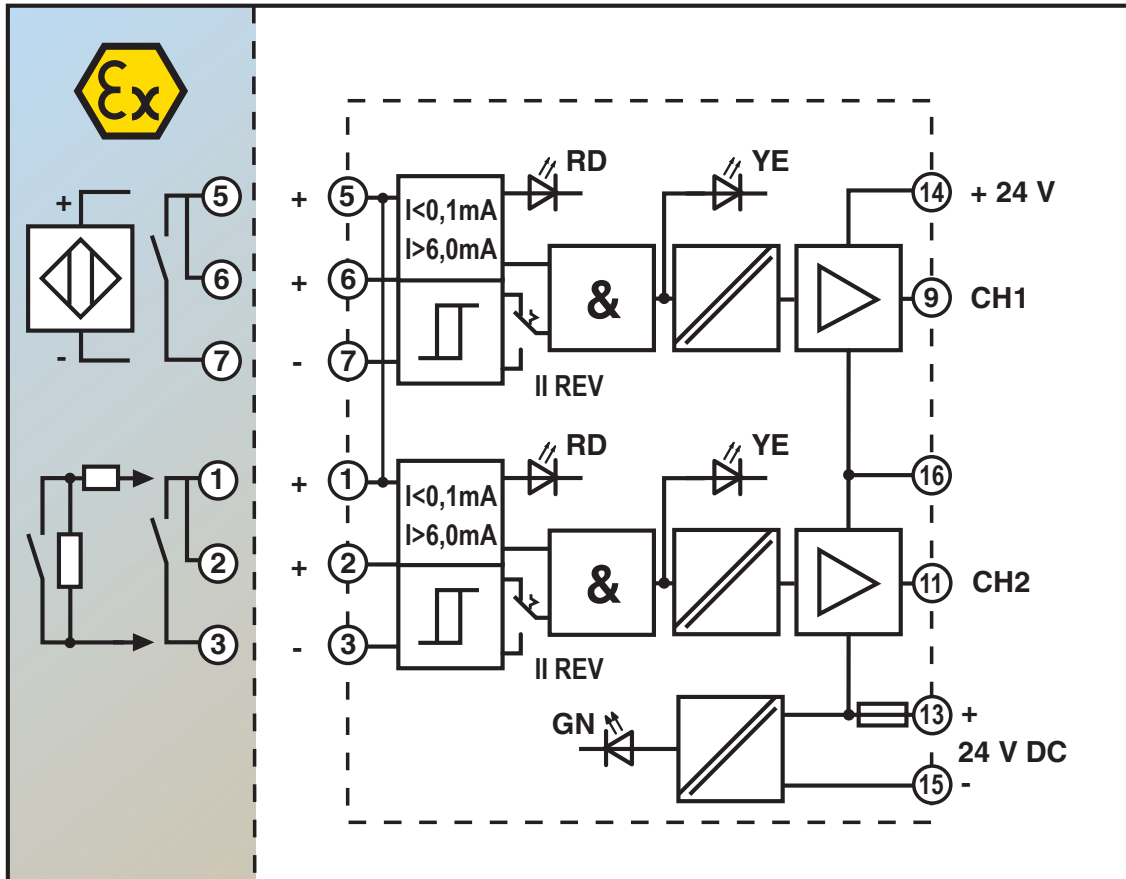


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Block diagram



Block diagram PI-EX-ME-2NAM/TO-A

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## Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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