

# PI-EX-ME-RPS-I/I - Signal isolator



2835435

<https://www.phoenixcontact.com/us/products/2835435>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Repeater power supply, (Analog IN), input: intrinsically safe, input signal: 0(4) ... 20 mA, output signal: 0(4) ... 20 mA

The figure shows version PI/EX-ME-RPSS-I/I

## Commercial data

Item number	2835435
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C430
Product key	DK1XXX
GTIN	4017918181161
Weight per piece (including packing)	170.6 g
Weight per piece (excluding packing)	170.6 g
Customs tariff number	85389091
Country of origin	DE

# PI-EX-ME-RPS-I/I - Signal isolator



2835435

<https://www.phoenixcontact.com/us/products/2835435>

## Technical data

### Product properties

Product type	Signal conditioner
Application	Analog IN
No. of channels	1

### Electrical properties

Line monitoring	NE 21
Test voltage input/output	1.5 kV AC (50 Hz, 60 s)
Step response (10-90%)	2.2 ms
Maximum temperature coefficient	< 0.01 %/K
Maximum transmission error	≤ 0.1 % (of final value)

### Electrical isolation Input/output/power supply

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

### Supply

Supply voltage range	20 V DC ... 30 V DC
Max. current consumption	< 90 mA (at 24 V DC/20 mA)
Power consumption	2.2 W

### Input data

#### Signal

Description of the input	Current input, intrinsically safe
Available input sources	2-conductor measuring transducer 4...20 mA
	3-conductor measuring transducer 4 ... 20 mA
	Active, fed from the field side, 0/4...20 mA signals
Current input signal	4 mA ... 20 mA
Transmitter supply voltage	17 V (at 20 mA)
Connection technology	2-, 3-conductor

### Output data

#### Signal

Output description	Current output
Current output signal	0 mA ... 20 mA
	4 mA ... 20 mA
Load/output load current output	1000 Ω

### Connection data

Connection method	Pluggable screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>

# PI-EX-ME-RPS-I/I - Signal isolator

2835435

<https://www.phoenixcontact.com/us/products/2835435>

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

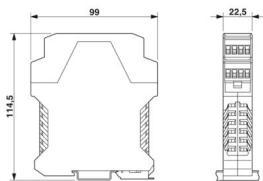
### Safety data

Max. output voltage $U_o$	28 V
Max. output current $I_o$	93 mA
Max. output power $P_o$	650 mW
Safety-related maximum voltage $U_m$	250 V
IIB: Max. external inductivity $L_o$ / Max. external capacitance $C_o$	14 mH / 650 nF
IIC: Max. external inductivity $L_o$ / Max. external capacitance $C_o$	2 mH / 83 nF

## Signaling

Status display	Green LED (supply voltage)
----------------	----------------------------

## 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)

## Approvals

### CE

Certificate	CE-compliant
-------------	--------------

# PI-EX-ME-RPS-I/I - Signal isolator



2835435

<https://www.phoenixcontact.com/us/products/2835435>

## ATEX

Identification	⊕ II (1)GD
	[EEx ia] IIC
Certificate	TÜV 00 ATEX 1522

## UL, USA/Canada

Identification	cULus
----------------	-------

## Standards and regulations

### Standards

Standards/regulations	NAMUR recommendation NE 21
-----------------------	----------------------------

# PI-EX-ME-RPS-I/I - Signal isolator

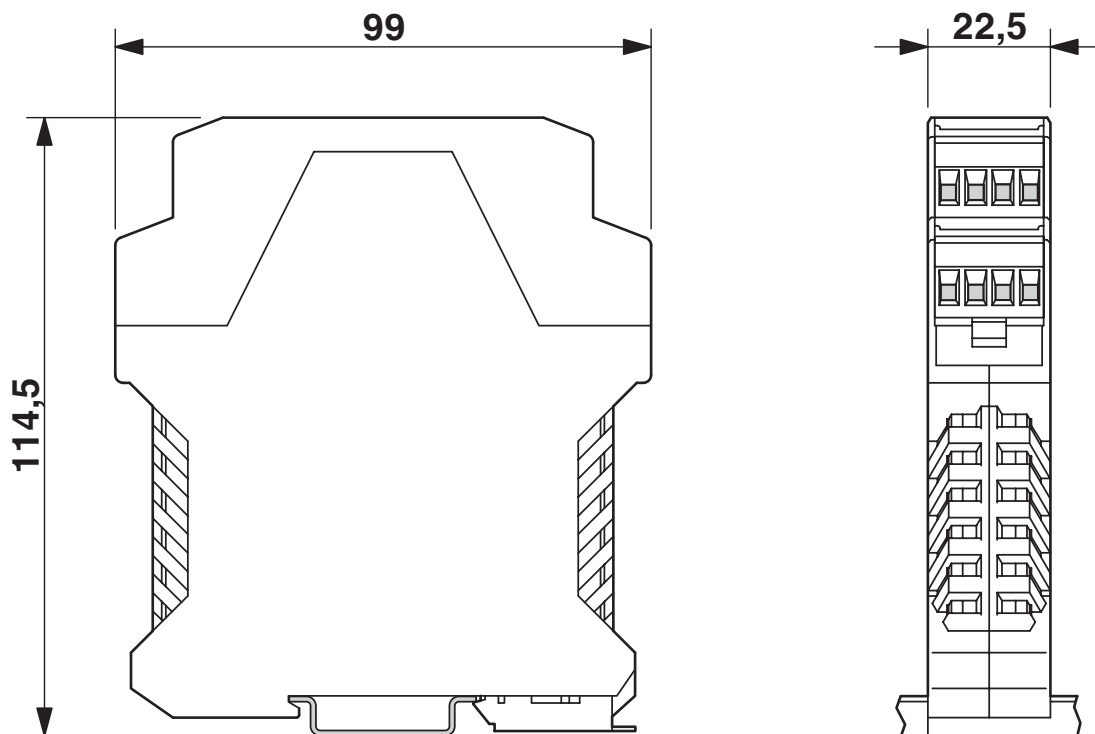
2835435

<https://www.phoenixcontact.com/us/products/2835435>



## Drawings

Dimensional drawing

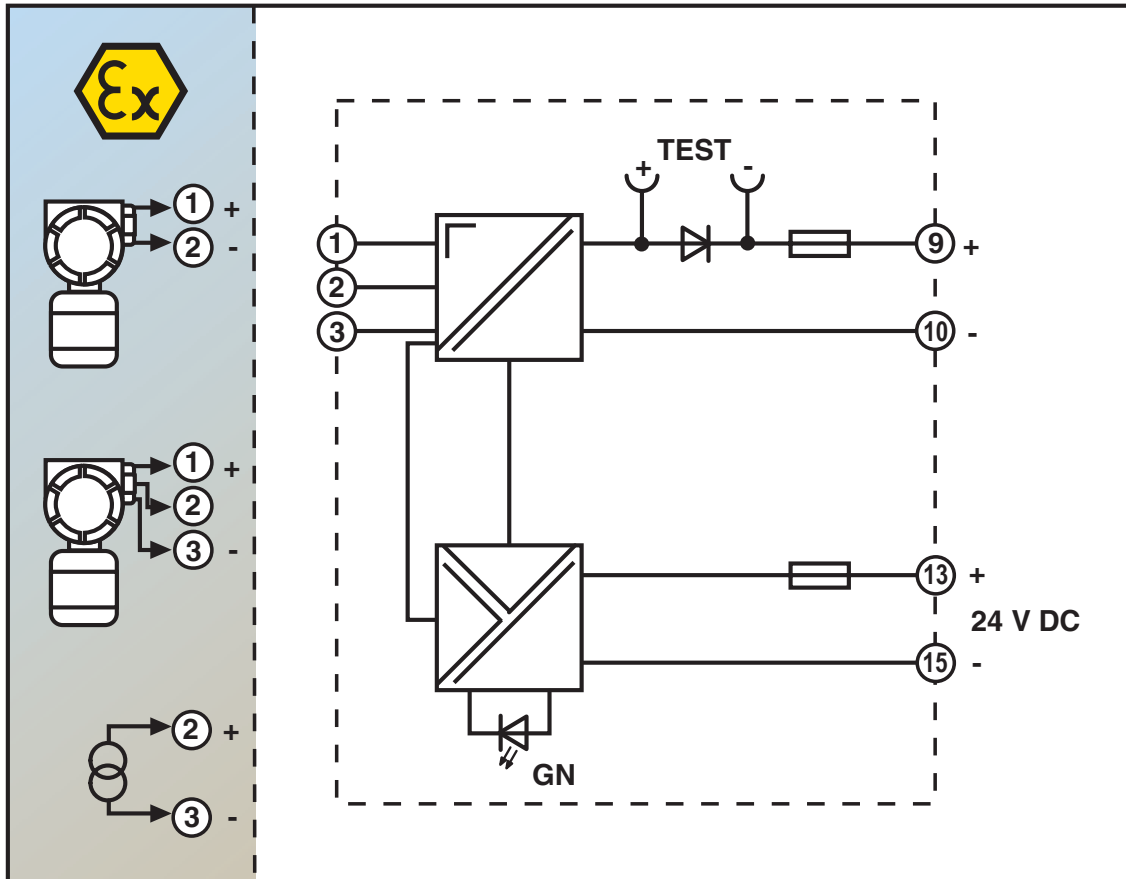


# PI-EX-ME-RPS-I/I - Signal isolator

2835435

<https://www.phoenixcontact.com/us/products/2835435>

Block diagram



Block diagram: PI-EX-ME-RPS-I/I

# PI-EX-ME-RPS-I/I - Signal isolator



2835435

<https://www.phoenixcontact.com/us/products/2835435>

## Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	
-------------------------------------	--

	No substance above 0.1 wt%
--	----------------------------

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)