

PI-EX-ME-IDS-I/I - Signal isolator



2835451

<https://www.phoenixcontact.com/us/products/2835451>

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Output isolator, SMART, (analog OUT), output: intrinsically safe, input signal: 0(4) ... 20 mA, output signal: 0(4) ... 20 mA

Commercial data

Item number	2835451
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DK1XXX
GTIN	4017918181185
Weight per piece (including packing)	186 g
Weight per piece (excluding packing)	155.81 g
Customs tariff number	85438995
Country of origin	DE

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Technical data

Product properties

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

Electrical properties

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)

Supply

Supply voltage range	20 V DC ... 30 V DC
Max. current consumption	< 60 mA (at 24 V DC/20 mA)
Power consumption	< 1.4 W

Input data

Signal

Description of the input	Current input
Current input signal	0 mA ... 20 mA
	4 mA ... 20 mA
Input voltage limitation	5 V (at 50 mA)
Input resistance current input	250 Ω (dynamic)
	50 Ω (static)

Output data

Signal

Output description	intrinsically safe
Current output signal	0 mA ... 20 mA
	4 mA ... 20 mA
Load/output load current output	750 Ω

Connection data

Connection method	Pluggable screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm ² ... 2.5 mm ²
Conductor cross-section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross-section AWG	24 ... 14
Tightening torque	0.5 Nm ... 0.6 Nm

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Ex data

Safety data

Max. output voltage U_o	27.3 V
Max. output current I_o	93 mA
Max. output power P_o	635 mW
Safety-related maximum voltage U_m	250 V
IIB: Max. external inductivity L_o / Max. external capacitance C_o	14.8 mH / 683 nF
IIC: Max. external inductivity L_o / Max. external capacitance C_o	2.2 mH / 88 nF

Interfaces

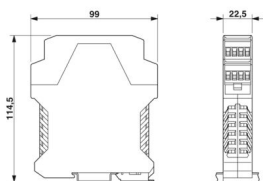
Data communication (bypass)

HART function	Yes
Protocols supported	HART

Signaling

Status display	Green LED (supply voltage)
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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

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CE

Certificate	CE-compliant
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ATEX

Identification	Ⓜ II (1)GD
	[EEx ia] IIC
Certificate	TÜV 00 ATEX 1524

UL, USA/Canada

Identification	cULus
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Standards and regulations

Standards

Standards/regulations	NAMUR recommendation NE 21
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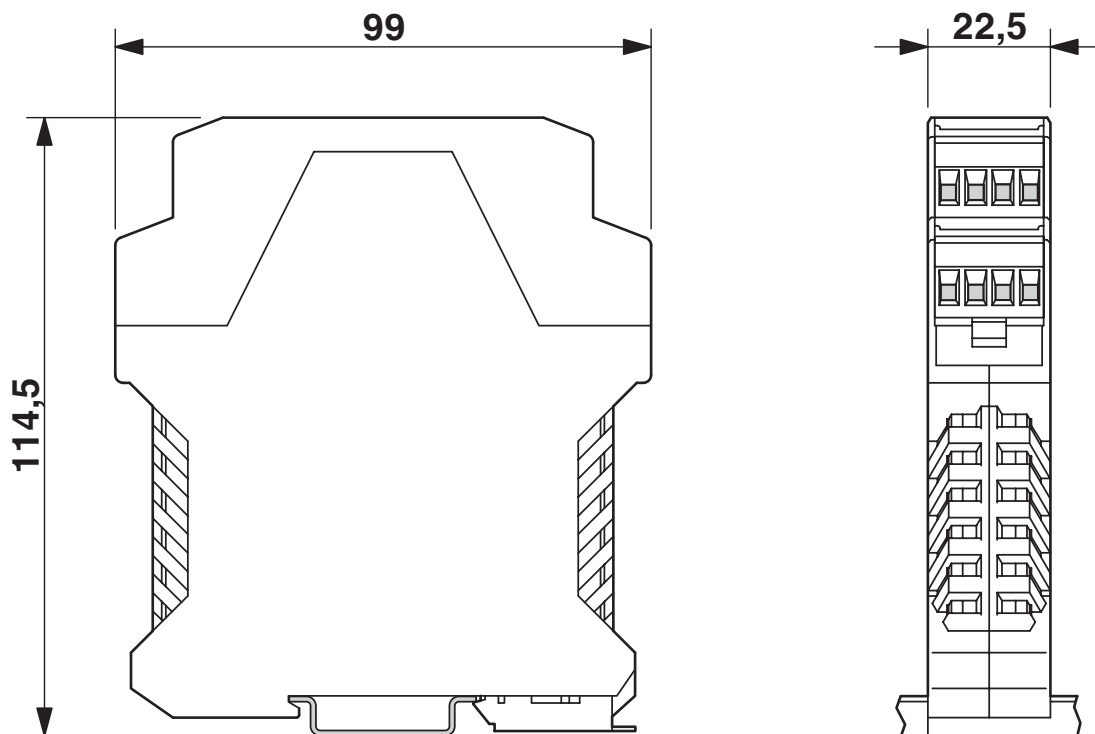
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Drawings

Dimensional drawing

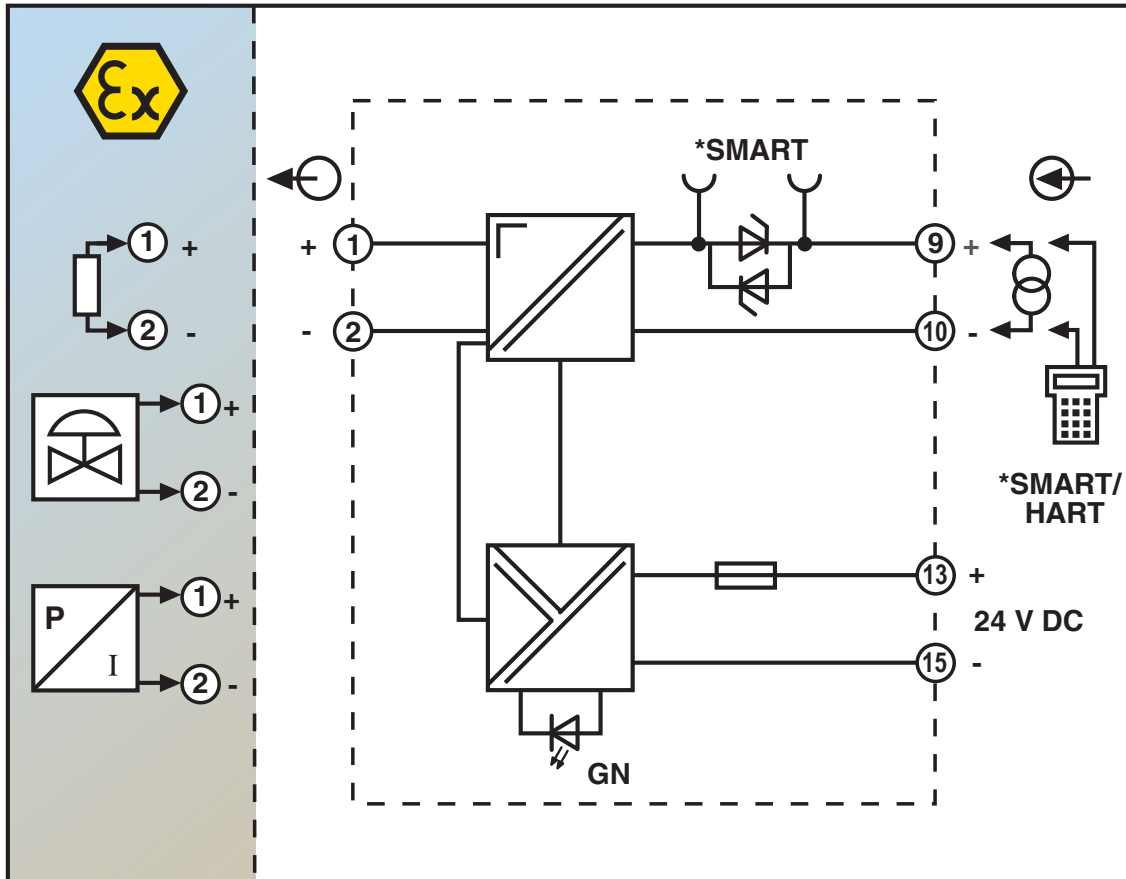


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Block diagram



Block diagram PI-EX-ME-IDS-I/I

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Environmental product compliance

EU REACH SVHC

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