

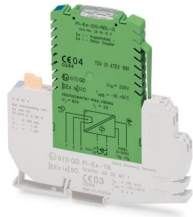
PI-EX-DO/REL-S - Signal isolator



2865120

<https://www.phoenixcontact.com/us/products/2865120>

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Ex i binary output: Relay with intrinsically safe contact side. For switching intrinsically safe circuits. Control either with external switching voltages or floating switch contacts. With additional hand-operated level. Electrical isolation.

Commercial data

Item number	2865120
Packing unit	1 pc
Sales key	C430
Product key	DK1XXX
GTIN	4017918956639
Weight per piece (including packing)	98.4 g
Weight per piece (excluding packing)	67.02 g
Customs tariff number	85364190
Country of origin	DE

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Technical data

Product properties

Product type	Relay Module
Application	Digital OUT
No. of channels	1

Electrical properties

Electrical isolation Input/output

Electrical isolation	375 V (Peak value as per EN 50020 / EN 60079-11)
Test voltage	1.5 kV AC (50 Hz, 60 s)

Electrical isolation Output/supply

Electrical isolation	375 V (Peak value as per EN 50020 / EN 60079-11)
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Supply

Supply voltage range	20 V DC ... 30 V DC
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Input data

Control

Available input sources	External voltage actuated operation; 4 V DC < U_s < 30 V DC: Relay picks up; U_s < 2 V DC: Relay drops out
	Operation via external switching contact, switch closed: Relay picks up; switch open: Relay drops out

Output data

Switching: Relay

Output description	intrinsically safe
Contact switching type	1 changeover contact
Contact material	AgNi, + 5 μ m Au
Contact resistance per contact pair	$\leq 0.1 \Omega$
Maximum switching voltage	30 V DC
Limiting continuous current	300 mA (when intrinsically safe circuits are connected)

Connection data

Connection method	Plug-in connection
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Ex data

Safety data

Safety-related maximum voltage U_m	250 V AC
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Signaling

Status display	Green LED (supply voltage)
	Yellow LED (status display)

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Dimensions

Dimensional drawing	
Width	12.4 mm
Height	79 mm
Depth	118.4 mm

Material specifications

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

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Approvals

CE

Certificate	CE-compliant
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ATEX

Identification	⊕ II (1) G [Ex ia Ga] IIC
	⊕ II (1) D [Ex ia Da] IIIC
	⊕ II 3 G Ex nA nC IIC T4 Gc
Certificate	PxCIF07ATEX2865120X

EAC Ex

Identification	ER[Ex] [Ex ia Ga] IIC
Certificate	RU C-DE.AB72.B.00097/19

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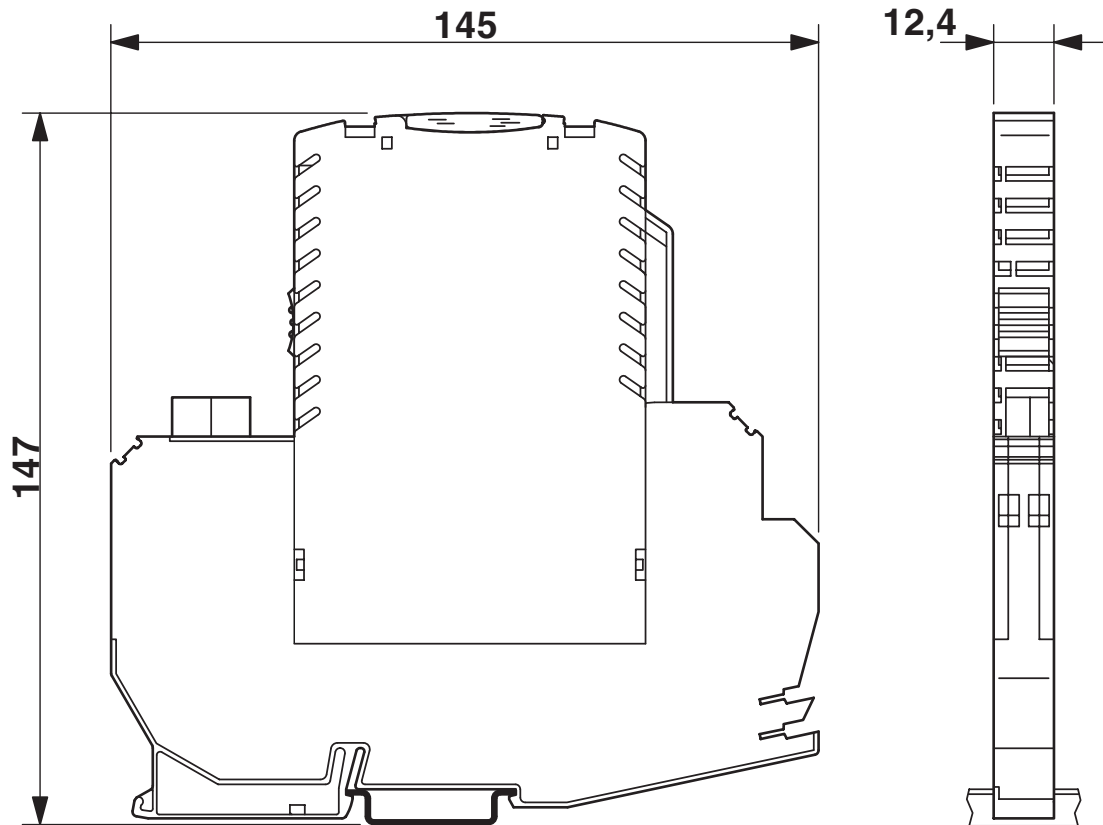


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Drawings

Dimensional drawing

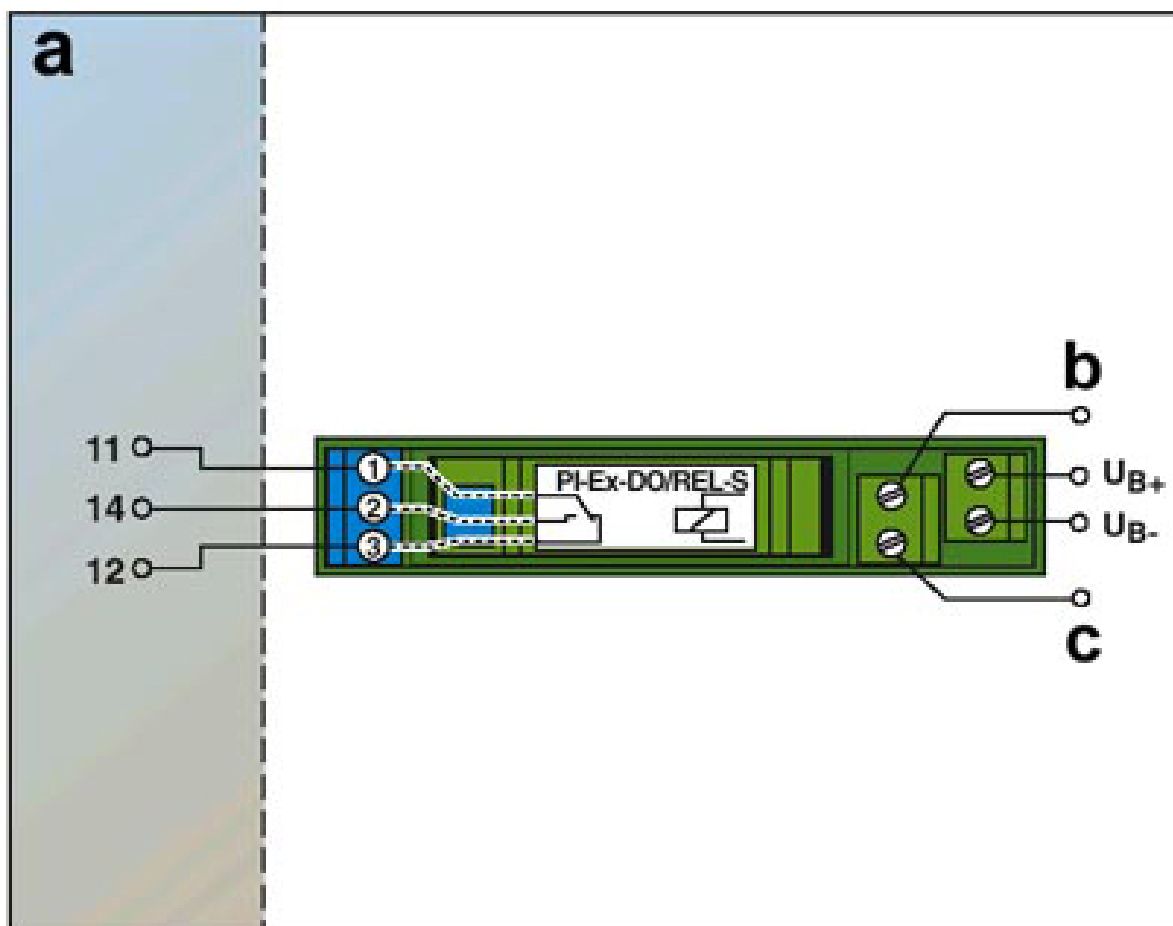


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Circuit diagram



a = Ex area

b = Control signal +

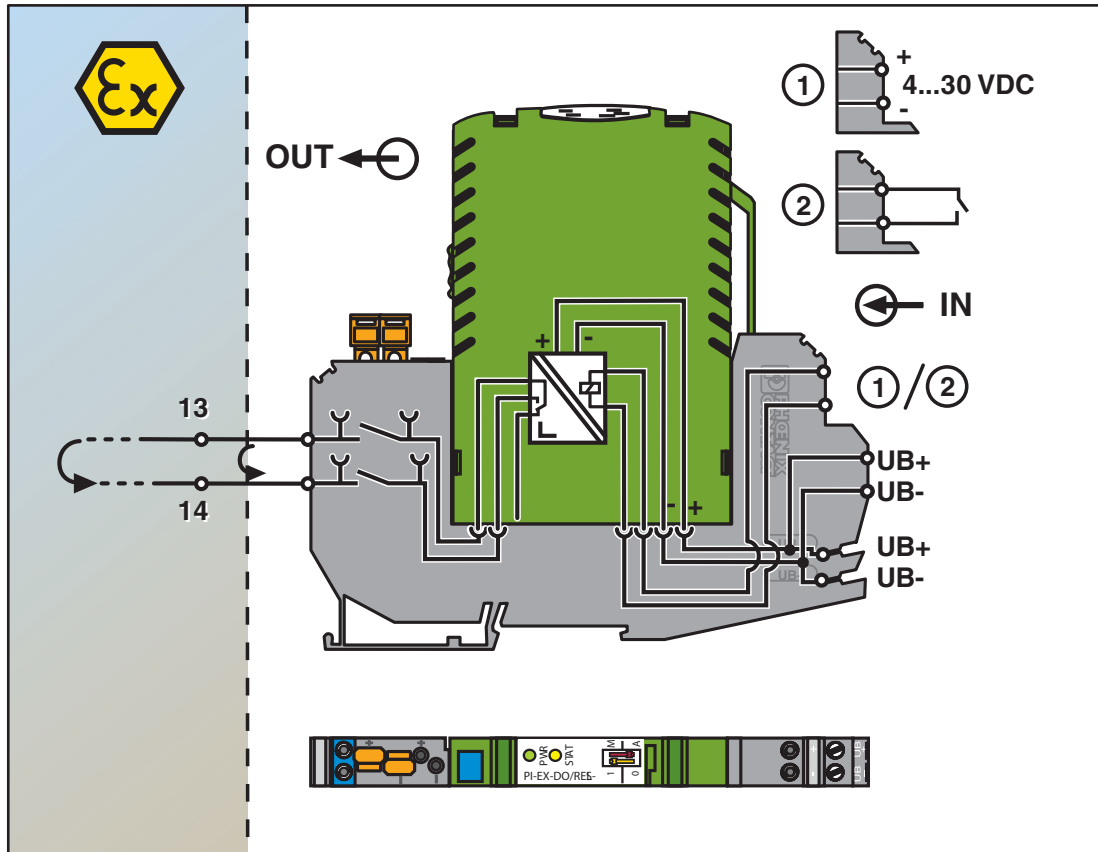
c = Control signal -

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Block diagram



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Classifications

UNSPSC

UNSPSC 21.0	39122300
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	72905b16-f9b4-455f-8a6e-7ff26a6eee23

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