

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



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
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Sales Key	C03
Product Key	CK3832
Catalog Page	Page 464 (IF-2009)
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

No. of channels	1
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 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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LED signaling

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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

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

Approval data

CE

Certificate	CE-compliant
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ATEX

Identification	<input type="checkbox"/> II (1) G [Ex ia Ga] IIC <input type="checkbox"/> II (1) D [Ex ia Da] IIIC <input type="checkbox"/> II 3 G Ex nA nC IIC T4 Gc
Certificate	PxCIF07ATEX2865120X

EAC Ex

Identification	<input type="checkbox"/> [Ex ia Ga] IIC
Certificate	RU C-DE.AB72.B.00097/19

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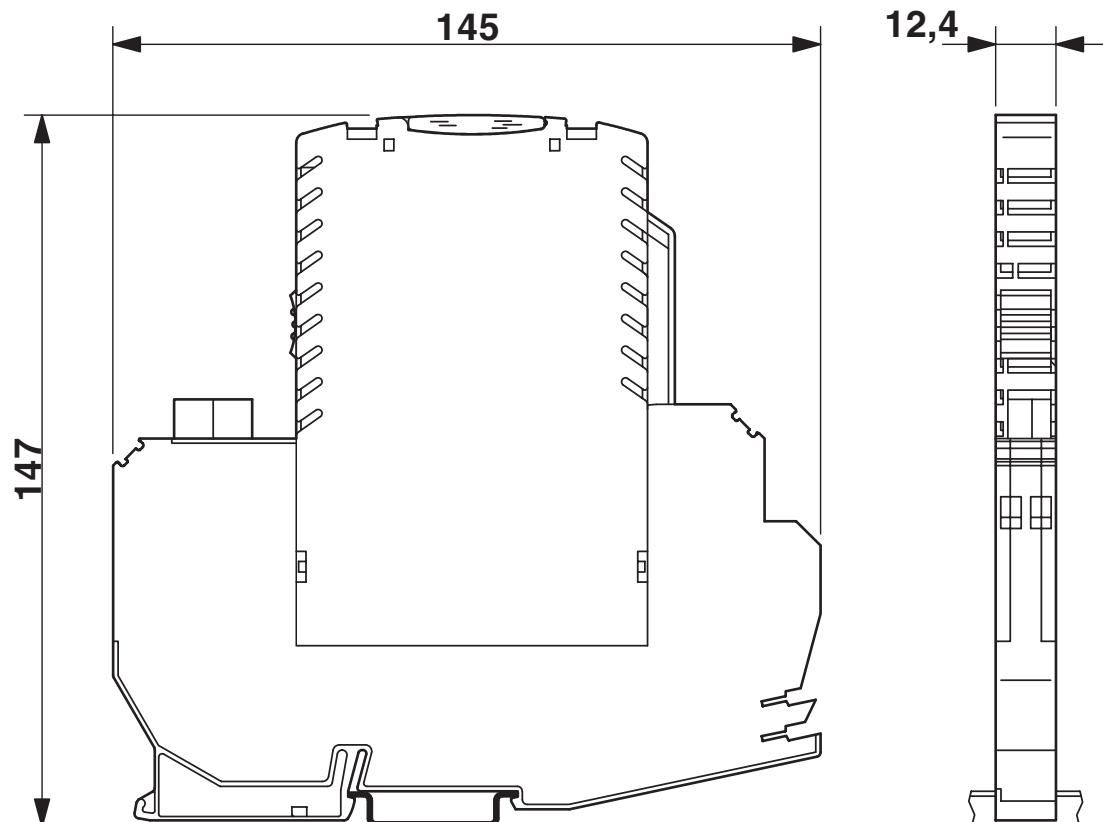
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Drawings

Dimensional drawing



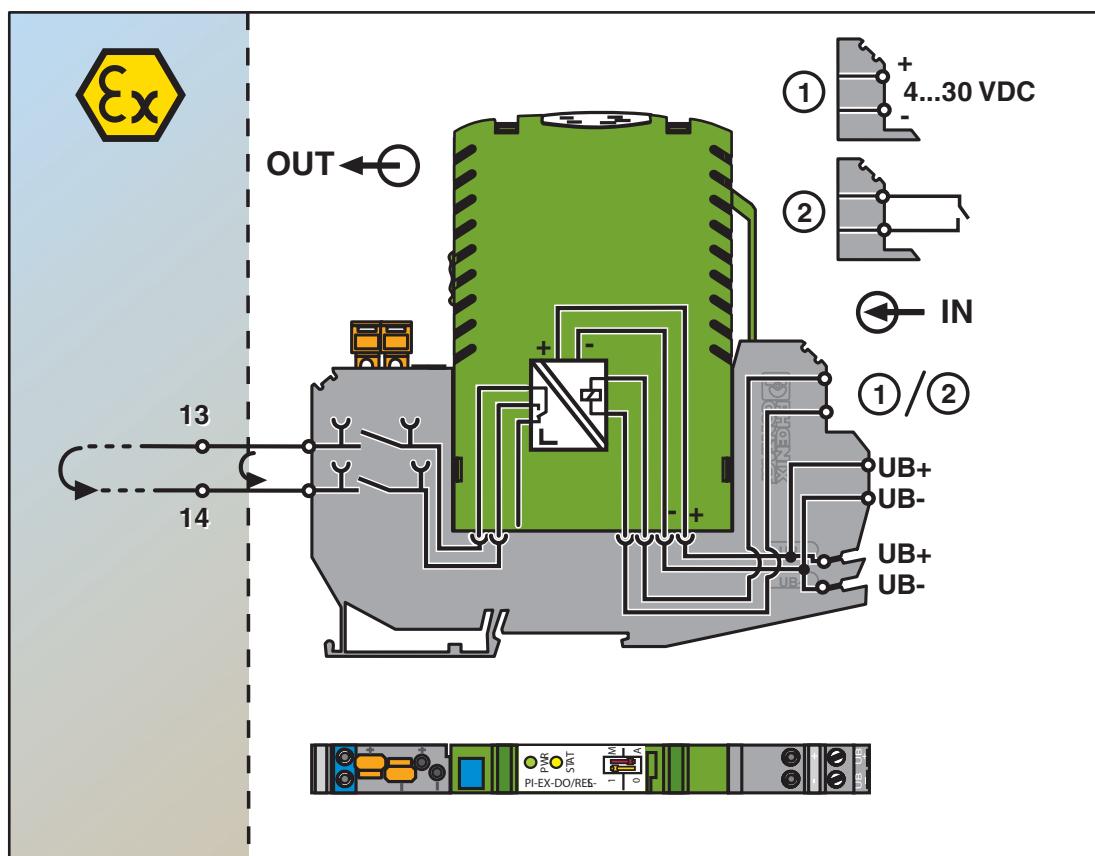
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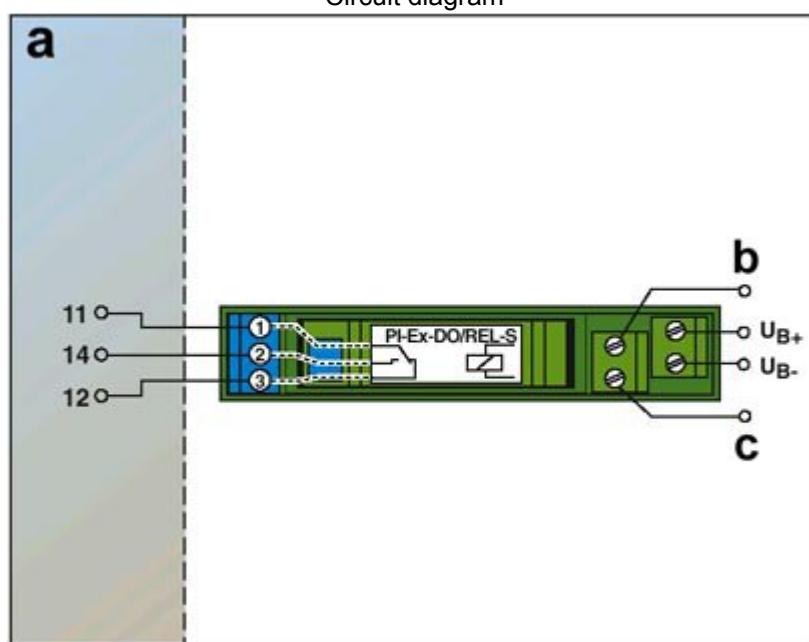
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Block diagram



Circuit diagram



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Approvals



EAC Ex

Approval ID: RU C-DE.*72.B.*97/19



ATEX

Approval ID: TUEV 01 ATEX 1681

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
EC-type examination certificate			-	-



ATEX

Approval ID: 2865120_Ex-n

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Classifications

ECLASS

ECLASS-9.0	27141152
ECLASS-10.0.1	27371601
ECLASS-11.0	27371601

ETIM

ETIM 8.0	EC001437
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UNSPSC

UNSPSC 21.0	39122300
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Environmental Product Compliance

REACH SVHC

Lead 7439-92-1

China RoHS

Environmentally Friendly Use Period = 50 years

For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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