

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



## Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 956639
GTIN	4017918956639
Weight per Piece (excluding packing)	67.020 g
Custom tariff number	85364190
Country of origin	Germany
Note	Made to Order (non-returnable)

## Technical data

### Dimensions

Width	12.4 mm
Height	145 mm
Depth	147 mm

### Ambient conditions

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

### Input data

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

### Output data

Switching output	Relay output
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## Technical data

### Output data

Contact type	1 PDT
Contact material	AgNi, + 5 µm Au
Maximum switching voltage	30 V DC
Limiting continuous current	300 mA (when intrinsically safe circuits are connected)
Contact transition resistor	≤ 0.1 Ω
Mechanical service life	3x 10 <sup>6</sup> cycles
Service life, electrical	50000 cycles (at 24 V DC / 10 A / 85 °C)

### Power supply

Supply voltage range	20 V DC ... 30 V DC
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### General

No. of channels	1
Status display	Green LED (supply voltage) Yellow LED (status display)
Housing material	PBT and polyamide PA non-reinforced
Color	green
Designation	Input/output
Electrical isolation	375 V (Peak value as per EN 50020 / EN 60079-11) 1.5 kV (50 Hz, 1 min., test voltage)
Designation	Output/supply
Electrical isolation	375 V (Peak value as per EN 50020 / EN 60079-11)
Conformance	CE-compliant
ATEX	# II (1) G [Ex ia] IIC # II (1) D [Ex iaD] # II 3 G Ex nAC IIC T4 X

### Safety data

Safety-related maximum voltage U <sub>m</sub>	250 V AC
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### Standards and Regulations

Conformance	CE-compliant
ATEX	# II (1) G [Ex ia] IIC # II (1) D [Ex iaD] # II 3 G Ex nAC IIC T4 X

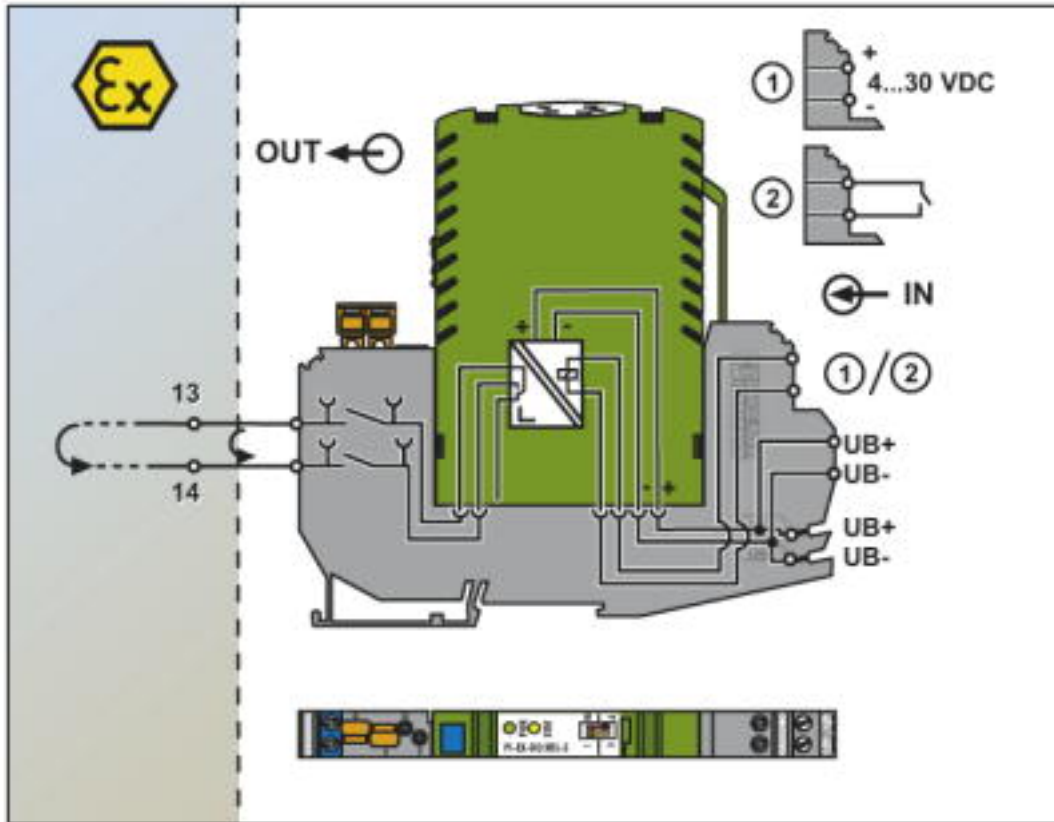
### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

### Drawings

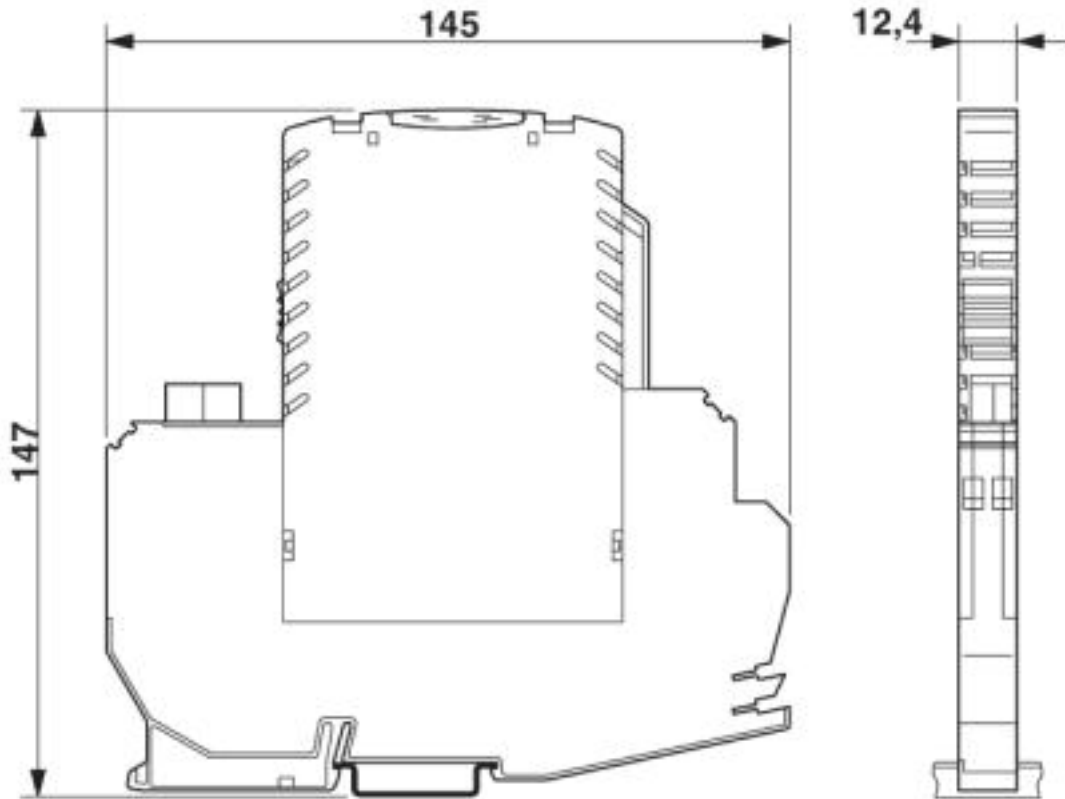
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Block diagram



# Signal isolator - PI-EX-DO/REL-S - 2865120

Dimensional drawing



## Classifications

### eCl@ss

eCl@ss 4.0	27210100
eCl@ss 4.1	27210100
eCl@ss 5.0	27371600
eCl@ss 5.1	27371600
eCl@ss 6.0	27371600
eCl@ss 7.0	27371601
eCl@ss 8.0	27371601
eCl@ss 9.0	27371601

### ETIM

ETIM 2.0	EC001437
ETIM 3.0	EC001437
ETIM 4.0	EC001437
ETIM 5.0	EC001437
ETIM 6.0	EC001437
ETIM 7.0	EC001437

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### Classifications

#### UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	39122334
UNSPSC 18.0	39122334
UNSPSC 19.0	39122334
UNSPSC 20.0	39122334
UNSPSC 21.0	39122334