

# PI-EX-SD/22/45-C - Signal isolator



2835040

<https://www.phoenixcontact.com/us/products/2835040>

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Ex i solenoid driver. To control intrinsically safe solenoid valves, alarm modules as well as simple electric equipment (e.g. LEDs) installed in Ex areas. Output EEx ia IIC, loop-powered. Electrical isolation.

## Commercial data

Item number	2835040
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DK1XXX
GTIN	4017918147846
Weight per piece (including packing)	91.3 g
Weight per piece (excluding packing)	91.3 g
Customs tariff number	85438995
Country of origin	GB

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## Technical data

### Notes

Order information:	The electronics module is plugged into a basic terminal block.
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### Product properties

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

### Electrical properties

Test voltage input/output	1.5 kV AC (50 Hz, 60 s)
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#### Electrical isolation Input/output

Electrical isolation	250 V <sub>rms</sub> (acc. to EN 50020)
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#### Supply

Supply voltage range	no separate supply voltage necessary
Max. current consumption	max. 110 mA
Power consumption	1.4 W (at 24 V)

### Input data

#### Control

Voltage input signal	20 V DC ... 35 V DC
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### Output data

#### Signal: Voltage

Output description	intrinsically safe
Output voltage	12.85 V (for 45 mA)

### Ex data

#### Safety data

Max. output voltage U <sub>o</sub>	25 V
Max. output current I <sub>o</sub>	147 mA
Max. output power P <sub>o</sub>	0.92 mW
EEX specification	[EEx ia] IIC, EX II (1)GD, BAS 97 ATEX 1213
IIA: Max. external inductivity L <sub>o</sub> / Max. external capacitance C <sub>o</sub>	14.42 mH / 2.97 μF
IIB: Max. external inductivity L <sub>o</sub> / Max. external capacitance C <sub>o</sub>	7.22 mH / 0.84 μF
IIC: Max. external inductivity L <sub>o</sub> / Max. external capacitance C <sub>o</sub>	1.45 mH / 0.11 μF

### Signaling

Status display	Yellow LED (status display)
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### Dimensions

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Dimensional drawing	
Width	12.4 mm
Height	145 mm
Depth	147 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

Ambient temperature (operation)	-20 °C ... 60 °C (vertical assembly)
	-20 °C ... 50 °C (horizontal assembly)
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Permissible humidity (operation)	5 % ... 95 % (relative humidity, non-condensing)

## EMC data

Electromagnetic compatibility	Conformance with EMC directive
Noise immunity	EN 61326:1998
Noise emission	
Standards/regulations	EN 61326:1998

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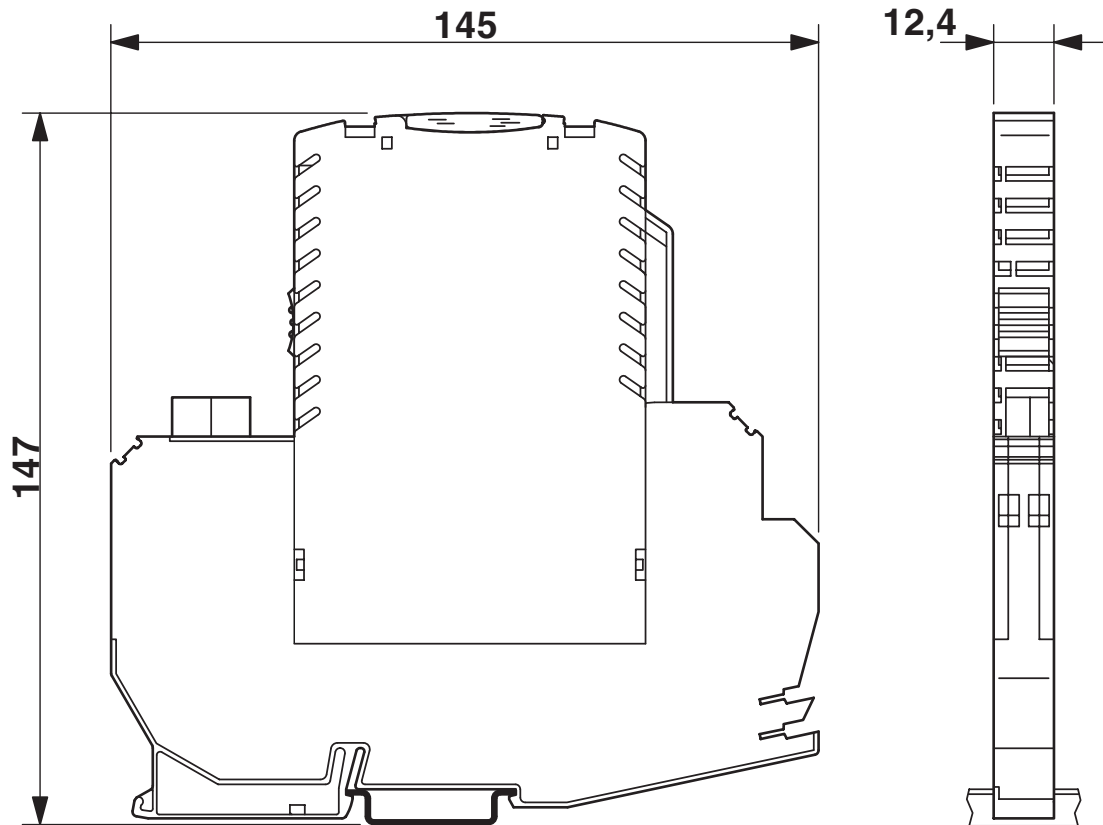


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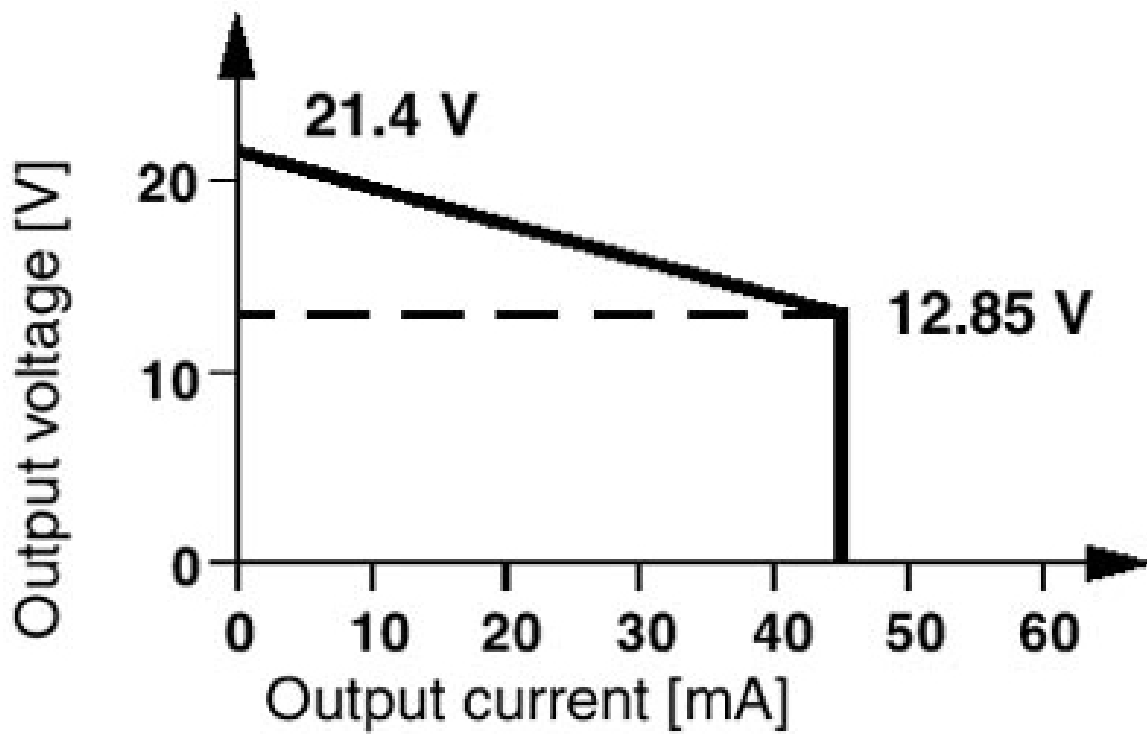
## Drawings

Dimensional drawing

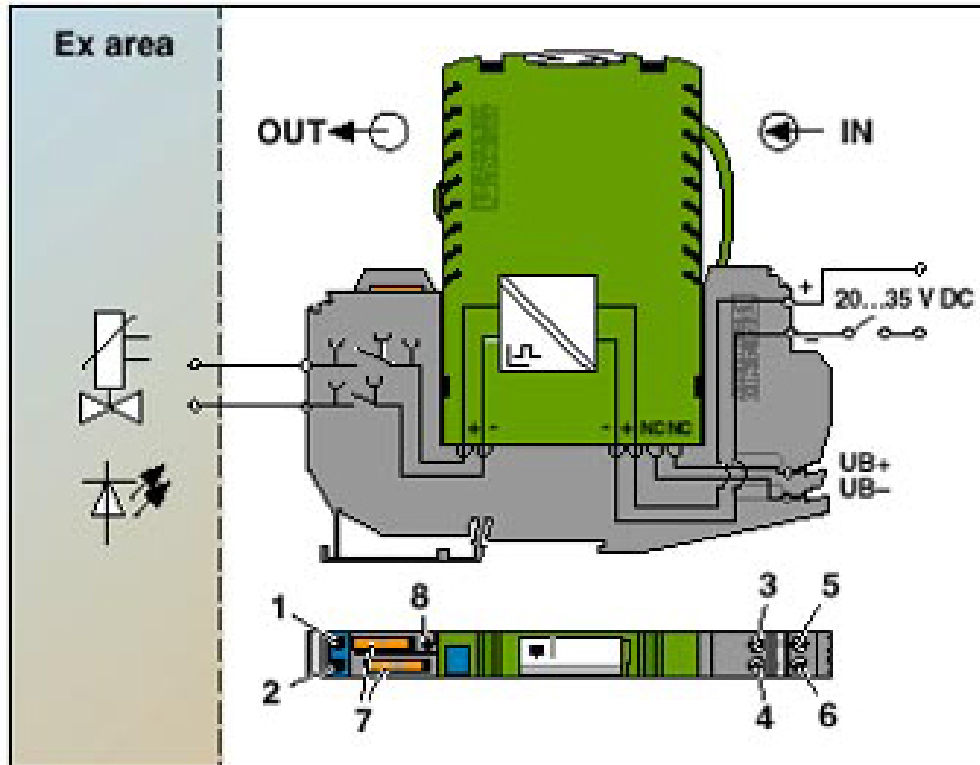


Diagram

### Output voltage

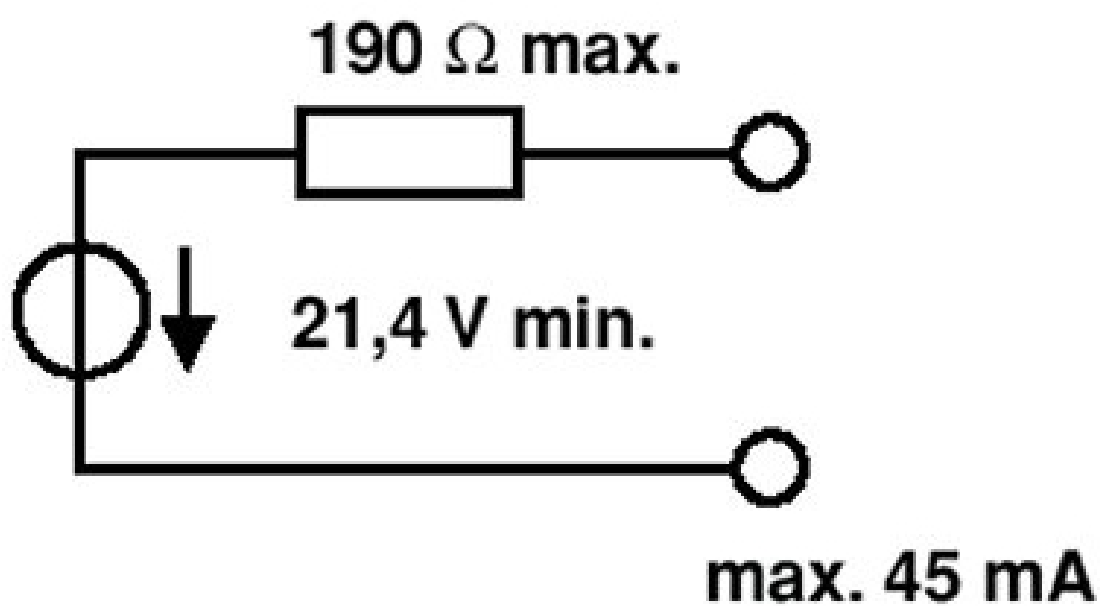


Circuit diagram



- 1 ≙ output signal "+"  
(Clamping screw with integrated female test connector)
- 2 ≙ output signal "-"  
(Clamping screw with integrated female test connector)
- 3 ≙ Control signal "-"
- 4 ≙ Control signal "+"
- 5 ≙ NC
- 6 ≙ NC
- 7 ≙ Disconnect knife with integrated female test connector
- 8 ≙ Female test connector

Circuit diagram



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## Environmental product compliance

EU REACH SVHC

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