

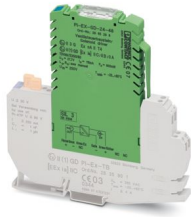
# PI-EX-SD-24-48 - Solenoid driver



2865298

<https://www.phoenixcontact.com/us/products/2865298>

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Ex i solenoid driver, pluggable. To control intrinsically safe solenoid valves, alarm modules as well as simple electric equipment installed in Ex areas. For Group IIC gases, loop-powered. Electrical isolation.

## Commercial data

Item number	2865298
Packing unit	1 pc
Sales key	C430
Product key	DK1XXX
GTIN	4046356147101
Weight per piece (including packing)	99.8 g
Weight per piece (excluding packing)	85.7 g
Customs tariff number	85437090
Country of origin	DE

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## Technical data

### Product properties

Product type	Solenoid driver
Compatible valve	ASCO Coil 195
	ASCO Coil 302 (12 V)
	Bürkert Coil AC 10 standard
	Bürkert Coil AC 10 high resistance
	Bürkert Coil AC 21 standard 700 mW / 65°C
	Bürkert Coil AC 21 high resistance 700 mW / 65°C
	Bürkert Coil AC 21 standard 900 mW / 45°C
	Bürkert Coil AC 21 high resistance 900 mW / 45°C
	Bürkert Coil AC 21 standard 900 mW / 60°C
	Bürkert Coil AC 21 high resistance 900 mW / 60°C
	Bürkert Coil G1 642735 standard 800 mW / 40°C
	Bürkert Coil G1 642735 high resistance 800 mW / 40°C
	Bürkert Coil G1 642735 standard 1000 mW / 40°C
	Bürkert Coil G1 642735 high resistance 1000 mW / 40°C
	FESTO Coil MFH-...IA-SA-EX GBXE022AIAD03
	FESTO Coil (J)MFH-...BIA-SA-EX GBXE022AIAD03
	Norgren Herion Coil 2050
	Norgren Herion Coil 2051
	Norgren Herion Coil 2052
	Norgren Herion Coil 2053
	Norgren Herion Coil 2080 / 2082
	Norgren Herion Coil 2081 / 2083
	Norgren Herion Coil 2084
	Norgren Herion Coil 3039
	Nass Coil 1259 30.1-00
	Nass Coil 1259 50.1-00
	Parker Coil VZ07 488650.01
	Parker Coil VZ33 494035.10
	Parker Coil VZ08 488660.01
	Parker Coil VZ09 488670.01
	Parker Coil VZ95 482160.01 EEx ia IIB T6
	Parker Coil VZ23 482870.01
	Samson Coil 3701-12 (12 V)
	Samson Coil 3701-13 (24 V)
	Samson Coil 3963-12 (12 V)
	Samson Coil 3963-13 (24 V)
	Samson Coil 3964-12 (12 V)
	Samson Coil 3964-13 (24 V)
	Seitz Pilot valve PV 12F73 Ci oH

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	Seitz Pilot valve PV 12F73 Xi oH
	Seitz Pilot valve PV 12F73 Xi oH-2
	Seitz Solenoid coil 11 G 52
Note	This is an extract of possible combinations of valves and solenoid drivers.

## Electrical properties

Maximum temperature coefficient	0.01 %/K
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### Electrical isolation Input/output

Electrical isolation	375 V (Peak value as per EN 50020 / EN 60079-11)
Test voltage	2.5 kV AC (50 Hz, 60 s)

### Supply

Max. current consumption	< 110 mA (at 24 V)
Power dissipation	max. 1.5 W (at 24 V)

## Input data

### Signal: Voltage

Number of inputs	1
Voltage input signal	20 V DC ... 30 V DC
Current input signal	15 mA DC ... 100 mA (85 mA for $U_e = 24$ V DC)

## Output data

### Signal: Voltage

Number of outputs	1
Output voltage	10.5 V (At 48 mA)
Output resistor	$\leq 278 \Omega$ (Internal resistance $R_i$ )
Current limitation	48 mA
Response time	< 30 ms
Open-circuit voltage	24 V
Short-circuit-proof	yes

## Ex data

### Safety data

Max. output voltage $U_o$	27.7 V
Max. output current $I_o$	101 mA
Max. output power $P_o$	697 mW
Safety-related maximum voltage $U_m$	250 V AC (125 V DC)
IIA: Max. external inductivity $L_o$ / Max. external capacitance $C_o$	20 mH / 0.44 $\mu$ F
IIB: Max. external inductivity $L_o$ / Max. external capacitance $C_o$	2 mH / 0.29 $\mu$ F
IIC (Please follow the technical data regarding the connecting cables used.): Max. external inductivity $L_o$ / Max. external capacitance $C_o$	0.5 mH / 0.067 $\mu$ F

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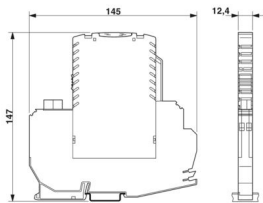
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## Signaling

Status display	Yellow LED (status display)
	Red LED (line errors)

## 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
Permissible humidity (operation)	10 % ... 95 % (relative humidity, non-condensing)

## 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 IIC T4 Gc
Certificate	PxCIF07ATEX2865298X

### Safety Integrity Level (SIL, IEC 61508)

Identification	3
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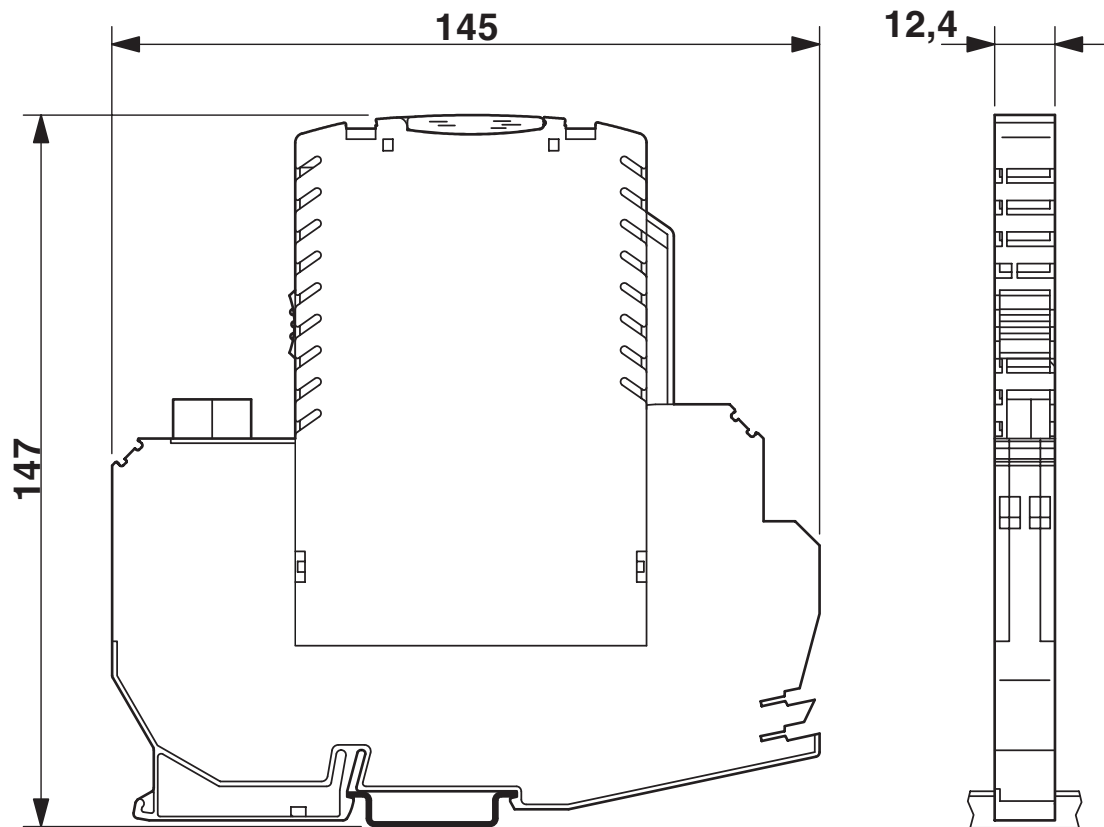
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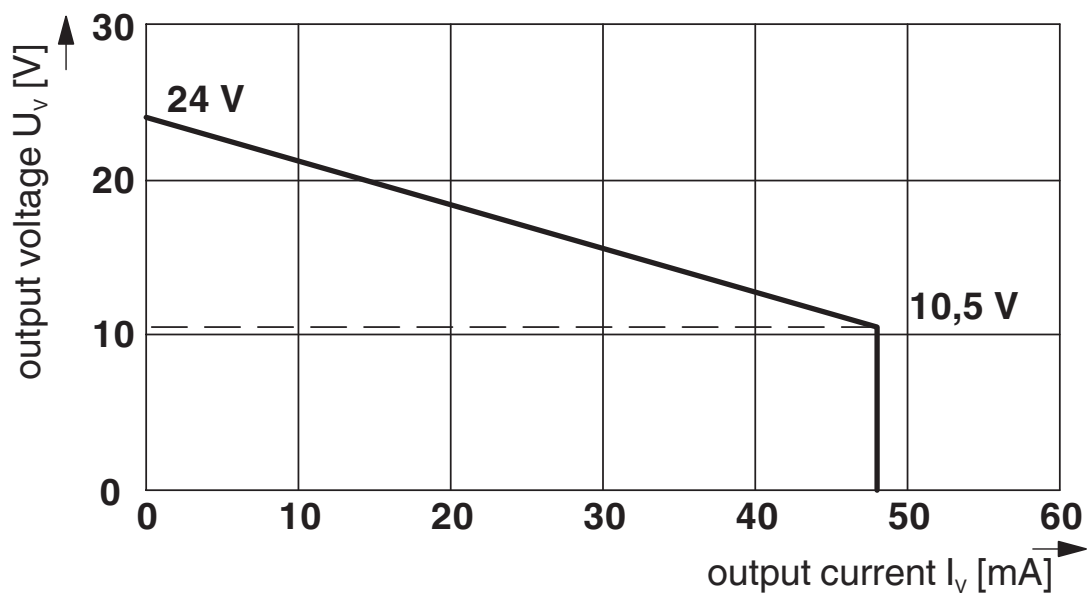
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## Drawings

Dimensional drawing



Diagram

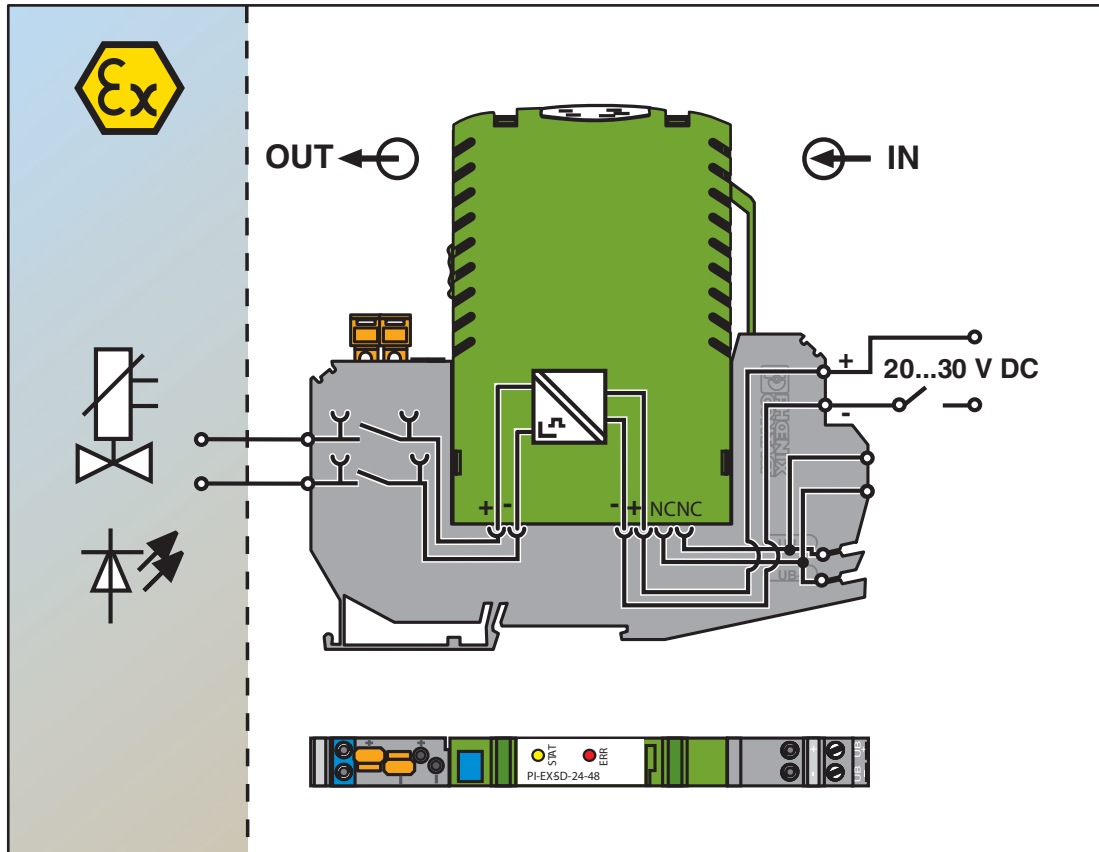


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Block diagram



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## Classifications

### UNSPSC

UNSPSC 21.0	39121000
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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)
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