2863931

https://www.phoenixcontact.com/us/products/2863931

**PHŒNIX** CONTACT

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Inline, Digital output terminal, Digital outputs: 4, 24 V DC, connection technology: 3-conductor, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

### Product description

The terminal is designed for use within an Inline station. It is used to output digital signals. It is used to acquire analog voltage and current signals.

### Your advantages

- · 4 digital outputs
- · Connection of actuators in 2- and 3-conductor technology
- Nominal current per output: 500 mA
- Total current of the terminal: 2 A
- · Short-circuit and overload-protected outputs
- Diagnostic and status indicators

### Commercial data

Item number	2863931
Packing unit	4 pc
Minimum order quantity	4 pc
Sales key	DR01
Product key	DRI132
Catalog page	Page 128 (C-6-2019)
GTIN	4017918962661
Weight per piece (including packing)	68.375 g
Weight per piece (excluding packing)	59 g
Customs tariff number	85389099
Country of origin	DE

2863931

https://www.phoenixcontact.com/us/products/2863931



### **Technical data**

#### Dimensions

Dimensional drawing 71.5 Width 12.2 mm 119.8 mm Height Depth 71.5 mm Notes

Utilization restriction	
CCCex note	Use in potentially explosive areas is not permitted in China.

#### Interfaces

Inline local bus	
Number of interfaces	2
Connection method	Inline data jumper
Transmission speed	500 kbps
Transmission physics	Copper

### System properties

Module

ID code (dec.)	189
ID code (hex)	BD
Length code (hex)	41
Length code (dec)	65
Process data channel	4 bit
Input address area	0 bit
Output address area	4 bit
Register length	4 bit
Required parameter data	3 Byte
Required configuration data	4 Byte

#### Output data

Digital	
Output name	Digital outputs
Connection method	Spring-cage connection

#### 2863931

https://www.phoenixcontact.com/us/products/2863931

Connection technology	3-conductor
Number of outputs	4
Protective circuit	Overload protection, short-circuit protection of outputs; Zener diode in output chip
Output voltage	24 V DC (U <sub>S</sub> - 1 V)
Limitation of the voltage induced on circuit interruption	-46 V15 V
Maximum inrush current	max. 1.5 A (for 20 ms)
Maximum output current per channel	500 mA
Maximum output current per module	2 A
Nominal output voltage	24 V DC (voltage difference at I <sub>nom</sub> ≤ 1 V)
Output voltage when switched off	max. 2 V
Output current when switched off	max. 300 μA
Nominal load, inductive	12 VA (1.2 H, 50 Ω)
Nominal load, lamp	12 W
Nominal load, ohmic	12 W (48 Ω)
Maximum operating frequency with ohmic nominal load	max. 300 Hz (this switching frequency is limited by the number of bus devices, the structure of the bus, the software used and the control or computer system used)
Reverse voltage resistance to short pulses	Reverse voltage proof
Behavior with overload	Auto restart
Behavior with inductive overload	Output can be destroyed
Behavior at voltage switch-off	The output follows the power supply without delay
Overcurrent shut-down	min. 0.7 A
Output current with ground connection interrupt when switched off	max. 25 mA
Output name	Digital outputs
Connection method	Spring-cage connection
Connection technology	3-conductor
Number of outputs	4
Protective circuit	Overload protection, short-circuit protection of outputs; Zener diode in output chip
Output voltage	24 V DC (U <sub>S</sub> - 1 V)
Limitation of the voltage induced on circuit interruption	-46 V15 V
Maximum inrush current	max. 1.5 A (for 20 ms)
Maximum output current per channel	500 mA
Maximum output current per module	2 A
Nominal output voltage	24 V DC (voltage difference at $I_{nom} \le 1 V$ )
Output voltage when switched off	max. 2 V
Output current when switched off	max. 300 μA
Nominal load, inductive	12 VA (1.2 H, 50 Ω)
Nominal load, lamp	12 W
Nominal load, ohmic	12 W (48 Ω)
Maximum operating frequency with ohmic nominal load	max. 300 Hz (this switching frequency is limited by the number of bus devices, the structure of the bus, the software used and the control or computer system used)
Reverse voltage resistance to short pulses	Reverse voltage proof

**PHŒNIX** CONTACT

Q

#### 2863931

https://www.phoenixcontact.com/us/products/2863931

Behavior with overload	Auto restart
Behavior with inductive overload	Output can be destroyed
Behavior at voltage switch-off	The output follows the power supply without delay
Overcurrent shut-down	min. 0.7 A
Output current with ground connection interrupt when switched off	max. 25 mA

#### **Product properties**

Туре	modular
Product type	I/O component
Product family	Inline
Scope of delivery	including Inline connector and labeling field
No. of channels	4
Operating mode	Process data operation with 4 bits
	Process data operation with 4 bits
Diagnostics messages	Short-circuit or overload of the digital outputs Error message in the diagnostic code (bus) and display (2 Hz) via the LED (D) on the module

#### **Electrical properties**

48 W
7.5 V DC (via voltage jumper)
max. 44 mA
max. 0.33 W
24 V DC (via voltage jumper)
19.2 V DC 30 V DC (including all tolerances, including ripple)
max. 2 A
500 V AC, 50 Hz, 1 min.
500 V AC, 50 Hz, 1 min.
500 V AC, 50 Hz, 1 min.

#### Connection data

Connection technology	
Connection name	Inline connector
Conductor connection	
Connection method	Spring-cage connection
Conductor cross section rigid	0.08 mm <sup>2</sup> 1.5 mm <sup>2</sup>
Conductor cross section flexible	0.08 mm <sup>2</sup> 1.5 mm <sup>2</sup>
Conductor cross section AWG	28 16
Stripping length	8 mm

PHŒNIX CONTACT

#### 2863931

https://www.phoenixcontact.com/us/products/2863931



Inline connector

Connection method	Spring-cage connection
Conductor cross section, rigid	0.08 mm <sup>2</sup> 1.5 mm <sup>2</sup>
Conductor cross section, flexible	0.08 mm <sup>2</sup> 1.5 mm <sup>2</sup>
Conductor cross section AWG	28 16
Stripping length	8 mm

#### Environmental and real-life conditions

Ambient conditions	
Ambient temperature (operation)	-25 °C 55 °C
Degree of protection	IP20
Air pressure (operation)	70 kPa 106 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	70 kPa 106 kPa (up to 3000 m above sea level)
Ambient temperature (storage/transport)	-25 °C 85 °C
Permissible humidity (operation)	10 % 95 % (according to DIN EN 61131-2)
Permissible humidity (storage/transport)	10 % 95 % (according to DIN EN 61131-2)

#### Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
------------------	---------------------------------------

#### Mounting

Mounting type DIN rail mounting

2863931

https://www.phoenixcontact.com/us/products/2863931



### Classifications

#### ECLASS

ECLASS-12.0 27242604   ECLASS-13.0 27242604	ECLASS-11.0	27242604
ECLASS-13.0 27242604	ECLASS-12.0	27242604
	ECLASS-13.0	27242604

#### ETIM

	ETIM 9.0	EC001599	
UNSPSC			
	UNSPSC 21.0	32151600	

2863931

https://www.phoenixcontact.com/us/products/2863931



### 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"

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com