2861603

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Inline, Digital output terminal, Digital outputs: 8, 24 V DC, 2 A, connection technology: 4conductor, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

Product description

The terminal is designed for use within an Inline station. It is used to output digital signals.

Your advantages

- · 8 digital outputs
- · Connection of actuators in 2-, 3-, and 4-conductor technology
- Nominal current per output: 2 A
- Total current of the terminal: 8 A
- · Short-circuit and overload-protected outputs
- · Diagnostic and status indicators
- · Approved for use in a safety-related segment circuit (refer to the information in the data sheet)

Commercial data

Item number	2861603
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR01
Product key	DRI132
Catalog page	Page 131 (C-6-2019)
GTIN	4017918894450
Weight per piece (including packing)	205.7 g
Weight per piece (excluding packing)	130 g
Customs tariff number	85389099
Country of origin	DE

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Technical data

Dimensions

Dimensional drawing	
Width	48.8 mm
Height	119.8 mm
Depth	71.5 mm
Note on dimensions	Housing dimensions

Interfaces

Inline local bus

Number of interfaces	2
Connection method	Inline data jumper
Transmission speed	500 kbps

System properties

Module

ID code (dec.)	189
ID code (hex)	BD
Length code (hex)	81
Length code (dec)	129
Process data channel	8 bit
Input address area	0 Byte
Output address area	1 Byte
Register length	8 bit
Required parameter data	3 Byte
Required configuration data	4 Byte

Output data

Digital		
Output name	Digital outputs	
Connection method	Spring-cage connection	
Connection technology	4-conductor	
Number of outputs	8	
Protective circuit	Overload protection, short-circuit protection of outputs	
Output voltage	24 V DC (U _S - 1 V)	



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Output current	max. 2 A (per channel)
	max. 8 A (per device, at 50% simultaneity)
Maximum output current per channel	2 A
Maximum output current per module	8 A (with 50% simultaneity)
Nominal output voltage	24 V DC
Output voltage when switched off	max. 1 V (at 1 MΩ)
Output current when switched off	max. 1 μA
Nominal load, inductive	48 VA (1,2 H, 12 Ω)
Nominal load, lamp	48 W
Nominal load, ohmic	48 W
Maximum operating frequency with ohmic nominal load	500 Hz (this switching frequency is limited by the data rate selected, 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. 3 A
Output current with ground connection interrupt when switched off	max. 1 μA

Product properties

Туре	modular
Product type	I/O component
Product family	Inline
Scope of delivery	including Inline connectors and marking fields
No. of channels	8
Operating mode	Process data mode with one byte
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
nsulation characteristics	
Overvoltage category	II (IEC 60664-1, EN 60664-1)
Pollution degree	2 (IEC 60664-1, EN 60664-1)
Pollution degree	
Pollution degree	2 (IEC 60664-1, EN 60664-1)
Pollution degree ectrical properties Maximum power dissipation for nominal condition	2 (IEC 60664-1, EN 60664-1)
Pollution degree ectrical properties Maximum power dissipation for nominal condition Potentials: Communications power (U _L)	2 (IEC 60664-1, EN 60664-1) 2.7 W
Pollution degree ectrical properties Maximum power dissipation for nominal condition Potentials: Communications power (U _L) Supply voltage	2 (IEC 60664-1, EN 60664-1) 2.7 W 7.5 V DC (via voltage jumper)
Pollution degree ectrical properties Maximum power dissipation for nominal condition Potentials: Communications power (U _L) Supply voltage Current draw	2 (IEC 60664-1, EN 60664-1) 2.7 W 7.5 V DC (via voltage jumper) max. 60 mA
Pollution degree ectrical properties Maximum power dissipation for nominal condition Potentials: Communications power (UL) Supply voltage Current draw Power consumption	2 (IEC 60664-1, EN 60664-1) 2.7 W 7.5 V DC (via voltage jumper) max. 60 mA



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Current draw	max. 8 A
Electrical isolation/isolation of the voltage ranges	
Test voltage: 5 V supply, incoming remote bus/7.5 V supply (bus logics)	500 V AC, 50 Hz, 1 min.
Test voltage: 5 V supply, outgoing remote bus/7.5 V supply (bus logics)	500 V AC, 50 Hz, 1 min.
Test voltage: 7.5 V supply (bus logics)/24 V supply (I/O)	500 V AC, 50 Hz, 1 min.
Test voltage: 24 V supply (I/O) / functional ground	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 ² 1.5 mm ²		
Conductor cross section flexible	0.08 mm ² 1.5 mm ²		
Conductor cross section AWG	28 16		
Stripping length	8 mm		
Inline connector			
Connection method	Spring-cage connection		
Conductor cross section, rigid	0.08 mm ² 1.5 mm ²		
Conductor cross section, flexible	0.08 mm ² 1.5 mm ²		
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)		
Nounting			
Mounting type	DIN rail mounting		

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Drawings

Connection diagram



Dimensional drawing





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Approvals

EAC

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2861603



EAC Approval ID: TR TS_D_01921-19

Functional Safety Approval ID: 968/EL 711.05/16

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Classifications

ECLASS

ECLASS-12.0 27242604	
ECLASS-13.0 27242604	

ETIM

	ETIM 9.0	EC001599		
UN	UNSPSC			
	UNSPSC 21.0	32151600		

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Environmental product compliance

REACh SVHC

Lead 7439-92-1

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