

2701155

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Inline, Digital output terminal, Digital outputs: 4, 24 V DC, connection technology: 3-conductor, Extreme conditions version, 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. Thanks to special engineering measures and tests, the terminal can be used under extreme ambient conditions.

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
- · Can be used under extreme ambient conditions
- Extended temperature range of -40 °C ... +70 °C (see "Tested successfully: use under extreme ambient conditions" in the data sheet)
- · Coated PCBs

Commercial data

Item number	2701155
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR01
Product key	DRI132
Catalog page	Page 128 (C-6-2019)
GTIN	4046356713818
Weight per piece (including packing)	93.4 g
Weight per piece (excluding packing)	66 g
Customs tariff number	85389091
Country of origin	DE



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Technical data

Dimensions

Dimensional drawing	1140,5 119,8 0 0 0 0 0 0 0 0
Width	12.2 mm
Height	140.5 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)	41
Length code (dec)	65
Process data channel	4 bit
Input address area	0 Byte
Output address area	4 bit
Register length	4 bit
Required parameter data	3 Byte
Required configuration data	4 Byte

Output data

Digital

2.9.00	
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; electronic
Output voltage	24 V DC (U _S - 1 V)



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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} ≤ 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 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. 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
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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
Special properties	Extreme conditions version
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
Insulation characteristics	
Overvoltage category	II (IEC 60664-1, EN 60664-1)
Pollution degree	2 (IEC 60664-1, EN 60664-1)

Electrical properties

Current draw

Potentials: Communications power (U_L)

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 44 mA
Potentials: Segment circuit supply (U _S)	
Supply voltage	24 V DC (via voltage jumper)
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple)

max. 2 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

Inline connector
Spring-cage connection
0.08 mm ² 1.5 mm ²
0.08 mm ² 1.5 mm ²
28 16
8 mm

Inline connector



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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 (Standard)
	-40 $^{\circ}\text{C}$ 70 $^{\circ}\text{C}$ (Extended, see section "Tested successfully: use under extreme ambient conditions" in the data sheet.)
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)	-40 °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)
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Mounting

Mounting type	DIN rail mounting
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Classifications

ECLASS

	ECLASS-11.0	27242604		
	ECLASS-12.0	27242604		
	ECLASS-13.0	27242604		
ETIM				
	ETIM 9.0	EC001599		
UNSPSC				
	UNSPSC 21.0	32151600		



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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"

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