

RL PN 24-2 DIO 16/8 2TX - Distributed I/O device



2773652

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Digital I/O device for PROFINET; 100Base-TX, fast startup, SNMPv2, TFTP, LLDP, PDev, eight inputs (24 V DC), eight configurable inputs or outputs (24 V DC, max. 0.5 A), VARIOSUB push/pull connection method, rugged metal housing, degree of protection IP67



Your advantages

- Rugged metal housing
- Comprehensive diagnostic functions
- Push/pull connector for PROFINET, either with fiber optic or twisted pair
- Push/pull connector for supply voltage
- M12 connector for I/O devices

Commercial data

Item number	2773652
Packing unit	1 pc
Sales key	DR03
Product key	DRI523
GTIN	4046356336642
Weight per piece (including packing)	1,289.7 g
Weight per piece (excluding packing)	1,180 g
Customs tariff number	85176200
Country of origin	DE

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Technical data

Dimensions

Width	182.5 mm
Height	71.5 mm
Depth	79.8 mm
Note on dimensions	without male connectors, with mounting panel

Interfaces

PROFINET

No. of channels	2
Connection method	VARIOSUB push-pull connectors
Designation connection point	Copper cable
Number of positions	4
Transmission speed	10/100 Mbps (auto negotiation)
Transmission physics	Twisted pair connection

System properties

PROFINET

Device function	PROFINET device
Specification	PROFINET-IO RT, Spec. 2.1
Conformance Class	B

Input data

Digital:

Input name	Digital inputs
Description of the input	IEC 61131-2 type 1
Number of inputs	16 (8 fixed and 8 freely selectable)
Connection method	M12 connector
Connection technology	2-, 3-, 4-conductor
Nominal input voltage U_{IN}	24 V DC
Protective circuit	Electronic short-circuit/overload protection for each group; Reverse polarity protection

Output data

Digital:

Output name	Digital outputs
Connection method	M12 connector
Connection technology	2-, 3-conductor
Number of outputs	8 (Can also be used as an input)
Protective circuit	Electronic short-circuit/overload protection for each channel
Output voltage	24 V

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Maximum output current per channel	500 mA
Nominal output voltage	24 V
Output voltage when switched off	max. 0.5 V
Output current when switched off	0 A
Nominal load, inductive	12 VA (1.2 H, 48 Ω)
Nominal load, lamp	12 W
Nominal load, ohmic	12 W
Maximum operating frequency with ohmic nominal load	300 Hz
Behavior with overload	Auto restart
Behavior with inductive overload	Output can be destroyed
Overcurrent shut-down	min. 0.7 A

Product properties

Product type	I/O component
Product family	Ruggedline
Type	Block design
No. of channels	16

Electrical properties

Supply: Module electronics

Connection method	VARIOSUB push-pull connectors
Designation	US1
Supply voltage	24 V DC
Supply voltage range	18.5 V DC ... 30 V DC (including ripple)
Ripple	Max 3.6 V _{SS} within the permissible voltage range

Electrical isolation/isolation of the voltage ranges

Test voltage: Between bus logic and outputs	500 V AC, 50 Hz, 1 min
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Connection data

Connection method	Push-Pull
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Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-20 °C ... 55 °C
Degree of protection	IP65/IP67
Note	Seal unused slots/connections to ensure the degree of protection.
Air pressure (operation)	860 hPa ... 1080 hPa (up to 1500 m above sea level)
Air pressure (storage/transport)	660 hPa ... 1080 hPa (up to 3500 m above sea level)
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	100 %
Permissible humidity (storage/transport)	95 % (non-condensing)

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Standards and regulations

Protection class

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

Mounting

Mounting type

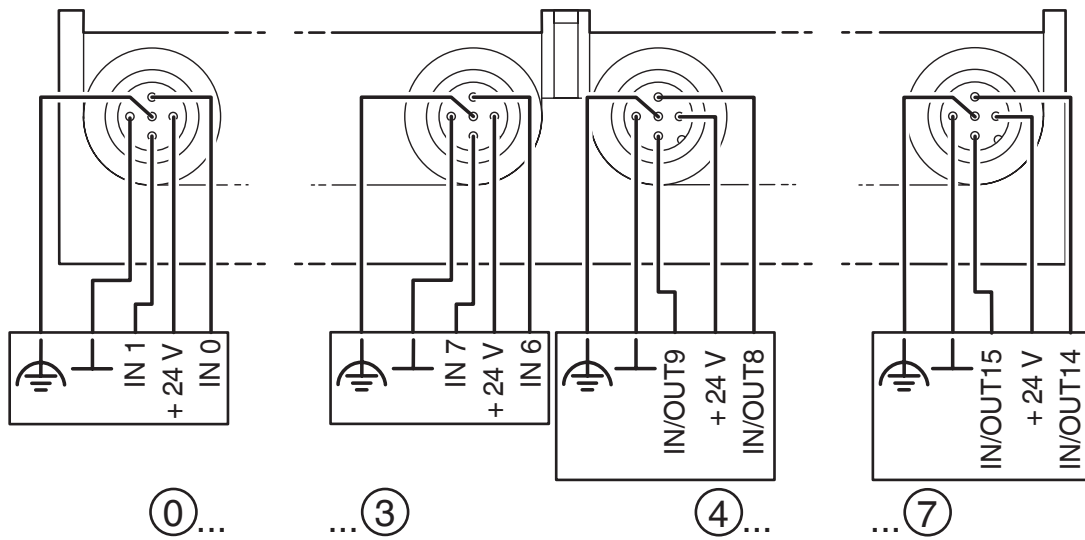
Panel mounting

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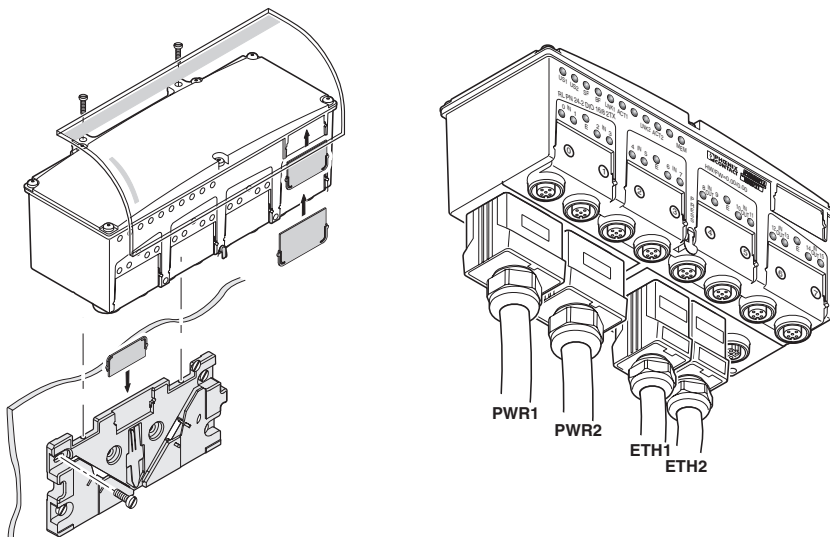
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Drawings

Connection diagram



Functional drawing



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Classifications

UNSPSC

UNSPSC 21.0	32151600
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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