

# 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;<br>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 <sub>SS</sub> 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 |
|---|------------------------|

## Connection data

|                   |           |
|-------------------|-----------|
| Connection method | Push-Pull |
|-------------------|-----------|

## 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

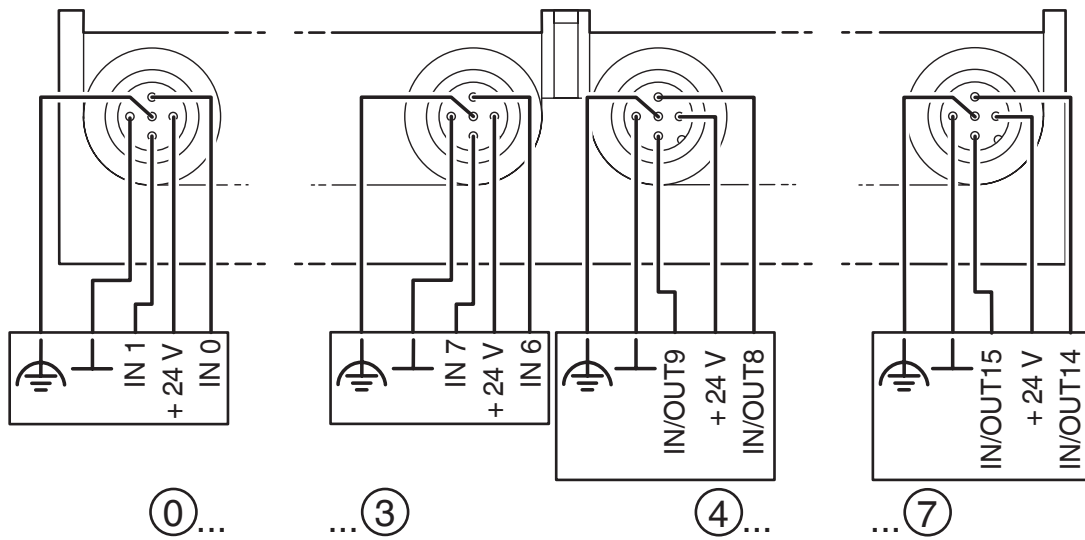
|                  |                                       |
|------------------|---------------------------------------|
| Protection class | III (IEC 61140, EN 61140, VDE 0140-1) |
|------------------|---------------------------------------|

## Mounting

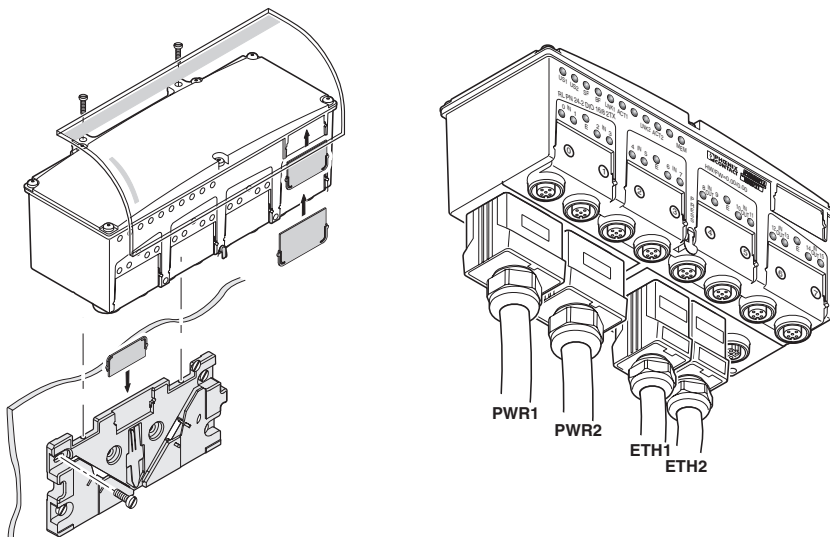
|               |                |
|---------------|----------------|
| Mounting type | Panel mounting |
|---------------|----------------|

## 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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