

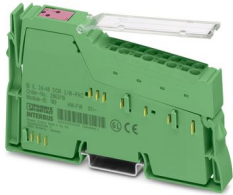
# IB IL 24/48 DOR 2/W-PAC - Relay module



2863119

<https://www.phoenixcontact.com/us/products/2863119>

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Inline, Relay terminal, Relay outputs: 2 (floating), Changeover contact, 24 V AC, 48 V DC, for switching ohmic loads, 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 has two floating SPDT relay contacts, which are independent of one another.

## Your advantages

- 2 relays
- Floating connections for 2 actuators
- Switching current per channel: 2 A, maximum

## Commercial data

Item number	2863119
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR01
Product key	DRI133
GTIN	4017918939229
Weight per piece (including packing)	75.5 g
Weight per piece (excluding packing)	63 g
Customs tariff number	85389099
Country of origin	DE

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## Technical data

### Dimensions

Dimensional drawing	
Width	12.2 mm
Height	119.8 mm
Depth	71.5 mm
Note on dimensions	Housing dimensions

### Notes

Note on application	
Note on application	Only for industrial use

### Material specifications

Color (Housing)	green (RAL 6021)
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### Interfaces

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

### System properties

Programming data (LocalbusSlave)	
Length code (hex)	C2
ID code (dec.)	189
Length code (dec)	194
Process data channel	2 bit
Input address area	0 bit
Output address area	2 bit
Parameter channel (PCP)	0 bit
Register length (bus)	2 bit

Fieldbus data telegram (PROFIBUS)	
Required parameter data	3 Byte
Required configuration data	4 Byte

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## Output data

### Relay

Number of outputs	2 (floating)
Connection method	Spring-cage connection
Contact switching type	Changeover contact
Switching voltage	min. 10 mV (DC) max. 30 V AC (PELV (EN 61131)) max. 60 V DC (PELV (EN 61131))
Switching current	min. 10 $\mu$ A max. 2 A (30 V DC) max. 1 A (60 V DC)
Switching power	60 W 62 VA (ohmic)
Limiting continuous current	2 A (at maximum ambient temperature)
Mechanical service life	2x 10 <sup>5</sup> cycles

## Product properties

Product type	I/O component
Product family	Inline
Type	modular
Installation location	Control cabinet
Scope of supply	including Inline connector and labeling field
No. of channels	2
Operating mode	Process data mode with 2 bits
Special properties	for switching ohmic loads

### Insulation characteristics

Overvoltage category	II (IEC 60664-1, EN 60664-1)
Pollution degree	2 (IEC 60664-1, EN 60664-1)

## Electrical properties

Maximum power dissipation for nominal condition	0.8 W
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### Potentials: Communications power ( $U_L$ )

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 30 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)
Current draw	max. 4 A

### Electrical isolation/isolation of the voltage ranges

Test voltage: Relay contact / Bus logics	1.5 kV, 50 Hz, 1 min
Test voltage: Contact/contact	1 kV, 50 Hz, 1 min

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Test voltage: Contact/functional ground	1 kV, 50 Hz, 1 min
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## Connection data

### Connection technology

Connection name	Inline connector
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### 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 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)

### Mechanical test

Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	2g
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	25g

## 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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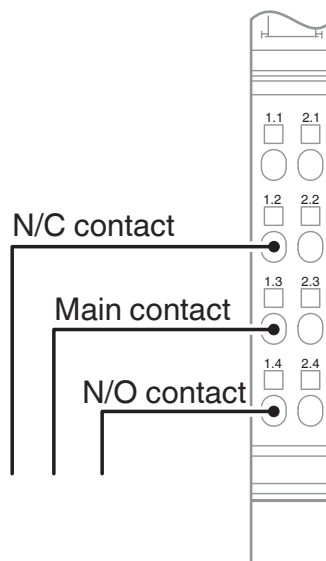
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## Drawings

Dimensional drawing



Connection diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2863119>



**LR**

Approval ID: LR23398855TA



**BV**

Approval ID: 20989\_C1 BV

**ABS**

Approval ID: 22-2226444-PDA

**DNV**

Approval ID: TAA00002CU

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## Classifications

### ECLASS

ECLASS-13.0	27242604
ECLASS-15.0	27242604

### ETIM

ETIM 10.0	EC001599
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### UNSPSC

UNSPSC 21.0	32151600
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## Environmental product compliance

### EU RoHS

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

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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