

# IB IL 24/48 DOR 2/W-XC-PAC - Inline terminal



2701214

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Inline, Relay terminal, Relay output: 2 (floating contacts), 2 floating changeover contacts, 24 V AC / 48 V DC, for switching ohmic loads, Extreme conditions version, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Similar figure

## 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. Thanks to special engineering measures and tests, the terminal can be used under extreme ambient conditions.

## Your advantages

- 2 relays
- Floating connections for 2 actuators
- Total current of the terminal: 4 A
- Diagnostic and status indicators
- Nominal current per output: 2 A

## Commercial data

Item number	2701214
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR01
Product key	DRI133
GTIN	4046356727792
Weight per piece (including packing)	85.4 g
Weight per piece (excluding packing)	63 g
Customs tariff number	85389091
Country of origin	DE

2701214

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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

### Material specifications

Color	green
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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

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

Required parameter data	3 Byte
Required configuration data	4 Byte

### Output data

#### Digital:

Output name	Relay output
Output description	Relay changeover contact

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2701214

<https://www.phoenixcontact.com/us/products/2701214>

Connection method	Spring-cage connection
Number of outputs	2 (floating contacts)
Maximum output current per channel	2 A
Maximum output current per module	4 A
Nominal output voltage	24 V AC 48 V DC
Output voltage range	5 V AC ... 30 V AC 5 V DC ... 60 V DC

## Relay

Contact switching type	2 floating changeover contacts
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 2 A (30 V DC) 1 A (60 V DC)
Switching power	60 W 62.5 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
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 Extreme conditions version

## Electrical properties

### Potentials: Communications power ( $U_L$ )

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

### 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
Test voltage: Contact / PE	1 kV, 50 Hz, 1 min

## Connection data

### Connection technology

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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 (Standard)
	-40 °C ... 70 °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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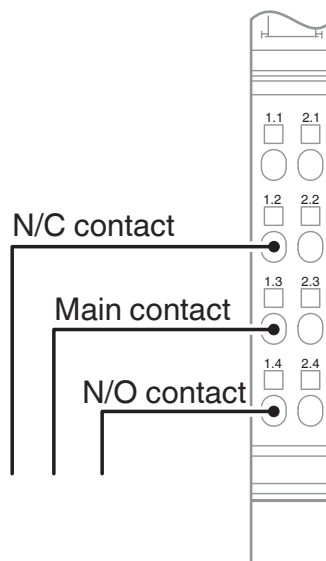
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## Drawings

Dimensional drawing



Connection diagram



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## Classifications

### UNSPSC

UNSPSC 21.0	32151602
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## Environmental product compliance

### China RoHS

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

### EU REACH SVHC

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