

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

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)	71.74 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

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)	C2
Length code (dec)	194
Process data channel	2 bit
Input address area	0 bit
Output address area	2 bit
Register length	2 bit
Required parameter data	3 Byte
Required configuration data	4 Byte

Output data

Relay	
Number of outputs	2 (floating)
Connection method	Spring-cage connection

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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 μ A
	max. 2 A (30 V DC)
	max. 1 A (60 V DC)
Switching capacity	60 W
	62 VA (ohmic)
Limiting continuous current	2 A (at maximum ambient temperature)
Mechanical service life	2x 10 ⁵ 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

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

Connection data

Connection technology

Connection name	Inline connector
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Conductor connection

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

Inline connector

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
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)

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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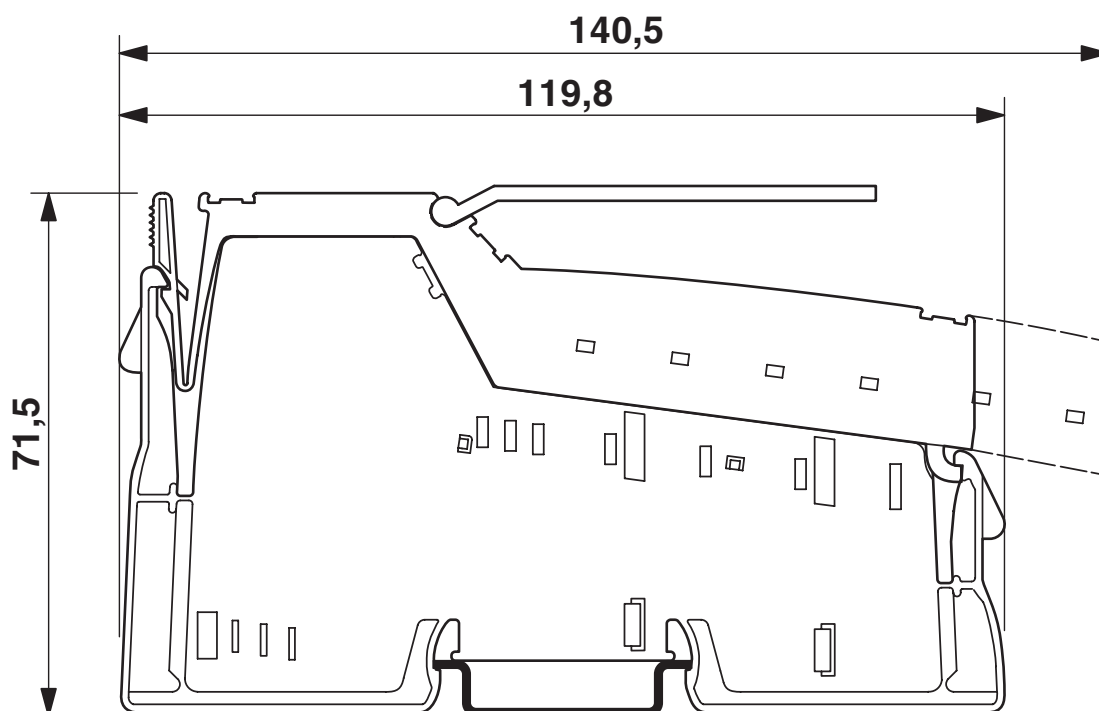


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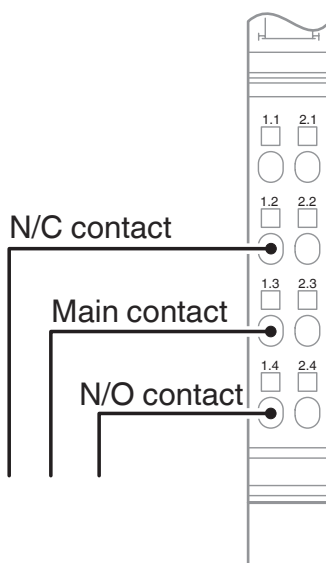
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Drawings

Dimensional drawing



Connection diagram



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Approvals

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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 9.0	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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