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

2863119

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CRA-READY



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; The product is being prepared for compliance with the Cyber Resilience Act (CRA).

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

ELEKTROGERÄTE RÜCKNAHME

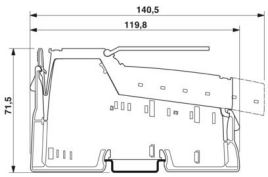
Commercial data

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

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	Only for industrial use
Note on application	As things stand now, we are preparing the product so that, as of December 11, 2027, it will comply with the requirements of the EU Cyber Resilience Act (CRA) based on the information currently available regarding the CRA.

Mounting

Mounting type	DIN rail mounting

Material specifications

Color (Housing)	green (RAL 6021)

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 (PROFIBUS)

Required parameter data	3 Byte
Required configuration data	4 Byte

Output data

Relay

Number of outputs	2 (floating)
Connection method	Spring-cage connection
Contact switching type	Changeover contact
Contact material	$AgSnO_2$, hard gold-plated
Contact resistance	75 mΩ
Nominal output voltage (AC)	24 V AC
Nominal output voltage (DC)	48 V DC
Output voltage range (AC)	5 V AC ... 30 V AC
Output voltage range (DC)	5 V DC ... 60 V DC
Switching voltage	min. 10 mV (DC)
	max. 30 V AC (PELV (EN 61131))
	max. 60 V DC (PELV (EN 61131))
Switching current	min. 10 µA
	max. 2 A (30 V DC)
	max. 1 A (60 V DC)
Limiting continuous current	2 A (at maximum ambient temperature)
Switching power	60 W
	62 VA (ohmic)
Switching frequency	1 Hz (without load)
	1 Hz (with load)
Coil resistance	178 Ω ±10 % (at 20 °C)
Typical response time	typ. 20 ms
Bouncing time	4 ms (for on and off)
Typical release time	typ. 20 ms
Service life electrical	10^8 cycles
Mechanical service life	2x 10^5 cycles
Common potentials	all contacts floating

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	The product is being prepared for compliance with the Cyber

	Resilience Act (CRA)
	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

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

Inline connector

Connection method	Spring-cage connection
Conductor cross-section, rigid	0.08 mm² ... 1.5 mm²
Conductor cross-section, flexible	0.08 mm² ... 1.5 mm²
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

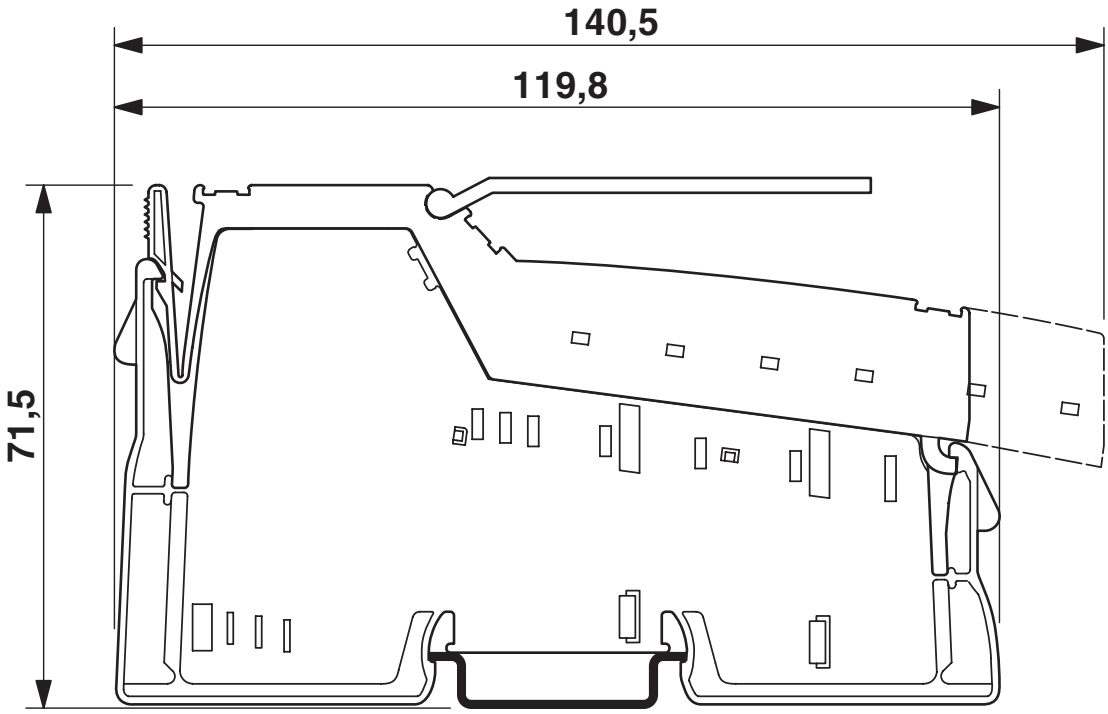
Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	2g
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	25g

Standards and regulations

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

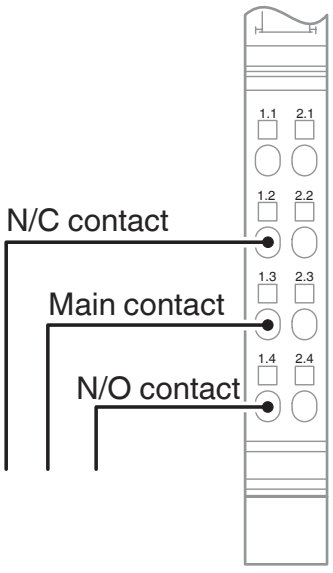
Drawings

Dimensional drawing



Dimensions (in mm)

Connection diagram



Connection example

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

Classifications

ECLASS

ECLASS-13.0	27242604
ECLASS-15.0	27242604

ETIM

ETIM 10.0	EC001599

UNSPSC

UNSPSC 21.0	32151600

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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