IB IL 24/230 DOR4/HC-PAC - Relay module

2897716

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Inline, Relay terminal, Relay outputs: 4 (floating), N/O contact, 24 V DC, 230 V AC, high inrush current, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

Product description

The terminal is designed for use within an Inline station. It has four floating relay contacts. You can use the terminal block in protective extra-low voltage applications and in AC applications. When using the terminal block in AC applications, be sure to follow the applicable regulations and safety notes. Features - Safe isolation in accordance with EN 50178 - Floating connection for four actuators - Nominal current at the output: 10 A - High inrush current

Your advantages

- Floating connections for 4 actuators
- Nominal current: 10 A
- Safe isolation
- Low power consumption through use of bistable relays
- Diagnostic and status indicators

Commercial data

Item number	2897716
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR18
Product key	DRHABA
GTIN	4046356133081
Weight per piece (including packing)	254.1 g
Weight per piece (excluding packing)	229 g
Customs tariff number	85389099
Country of origin	DE

Technical data

Dimensions

Width	48.8 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

Mounting

Mounting type	DIN rail mounting

Material specifications

Color (Housing)	gray (RAL 7042)

Interfaces

Inline local bus

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

System properties

Programming data

Length code (hex)	09
ID code (dec.)	191
Length code (dec)	9
Process data channel	8 bit
Input address area	1 Byte
Output address area	8 bit
Parameter channel (PCP)	0 bit
Register length (bus)	8 bit

Fieldbus data telegram

Required parameter data	5 Byte
Required configuration data	5 Byte

Output data

Relay

Number of outputs	4 (floating)

Connection method	Spring-cage connection
Contact switching type	N/O contact
Contact material	$AgSnO_2$
Nominal output voltage (DC)	24 V DC
Nominal output voltage (AC)	230 V AC
Output voltage range (AC)	5 V AC ... 253 V AC
Output current (max. per channel)	max. 10 A (per channel)
Switching voltage	max. 250 V DC
	min. 5 V DC

Product properties

Product type	I/O component
Product family	Inline
Type	modular
Installation location	Control cabinet
Scope of supply	including Inline connectors and marking fields
No. of channels	4
Special properties	high inrush current

Electrical properties

Potentials: Communications power (U_L)

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 34 mA

Potentials: Supply of analog modules (U_{ANA})

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current draw	10 mA (maximum 55 mA during the switching process (duration of approximately 25 ms per switched relay))

Electrical isolation/isolation of the voltage ranges

Test voltage: Relay contact / Bus logics	4 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

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)	80 kPa ... 106 kPa (up to 2000 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)	0 % ... 85 % (non-condensing)
Permissible humidity (storage/transport)	0 % ... 85 % (slight temporary condensation may sometimes appear on the housing)

Standards and regulations

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

Classifications

ECLASS

ECLASS-13.0	27242604

ETIM

ETIM 9.0	EC001599

UNSPSC

UNSPSC 21.0	32151600

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

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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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com