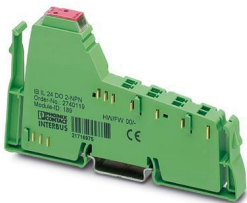


IB IL 24 DO 2-NPN - Inline terminal

2740119

<https://www.phoenixcontact.com/us/products/2740119>

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Inline digital output terminal, without accessories, 2 outputs, 24 V DC, npn-wired, 2-, 3-, and 4-conductor connection technology

Product description

The terminal is designed for use within an Inline station. It is used to output digital signals.

Your advantages

- Diagnostic and status indicators
- 2 digital outputs, npn-wired
- Connection of actuators in 2-, 3-, and 4-conductor technology
- Nominal current per output: 500 mA
- Total current of the terminal: 1 A
- Short-circuit and overload-protected outputs

Commercial data

Item number	2740119
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DRI132
GTIN	4017918570095
Weight per piece (including packing)	65.9 g
Weight per piece (excluding packing)	47.09 g
Customs tariff number	85389091
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

Material specifications

Color	green
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Interfaces

Inline local bus

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 Byte
Output address area	2 bit
Parameter channel (PCP)	0 bit
Register length (bus)	2 bit

Fieldbus data telegram

Required parameter data	3 Byte
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Output data

Digital:

Output name	Digital outputs
Output description	With negative logic
Connection method	Spring-cage connection
Connection technology	2-, 3-, 4-conductor

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Number of outputs	2
Protective circuit	Short-circuit and overload protection
Output voltage	24 V DC ($U_S - 1$ V)
Maximum output current per channel	500 mA
Maximum output current per module	1 A
Nominal output voltage	24 V DC (voltage difference at $I_{nom} \leq 1$ V)
Nominal load, inductive	12 W
Nominal load, lamp	12 W
Nominal load, ohmic	12 VA
Behavior with overload	Auto restart
Behavior with inductive overload	Output can be destroyed
Behavior at voltage switch-off	The output follows the power supply without delay

Product properties

Product type	I/O component
Product family	Inline
Type	modular
No. of channels	2
Diagnostics messages	Short-circuit or overload of the digital outputs Error message in the diagnostic code (bus) and display (2 Hz) via the LED (D) on the module

Electrical properties

Potentials: Communications power (U_L)

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 32 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. 1 A

Electrical isolation/isolation of the voltage ranges

Test voltage: 5 V supply, incoming remote bus/7.5 V supply (bus logics)	500 V AC, 50 Hz, 1 min
Test voltage: 5 V supply, outgoing remote bus/7.5 V supply (bus logics)	500 V AC, 50 Hz, 1 min
Test voltage: 7.5 V supply (bus logics)/24 V supply (I/O)	500 V AC, 50 Hz, 1 min
Test voltage: 24 V supply (I/O) / functional ground	500 V AC, 50 Hz, 1 min

Connection data

Connection technology

Connection name	Inline connector
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Inline connector

Connection method	Spring-cage connection
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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

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 % (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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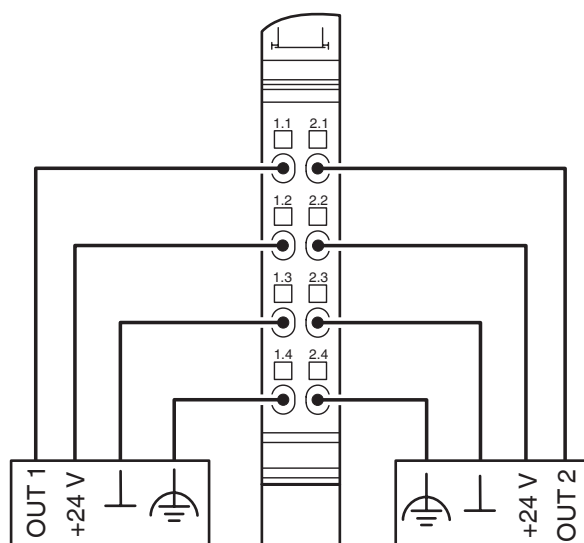
<https://www.phoenixcontact.com/us/products/2740119>

Drawings

Dimensional drawing



Connection diagram



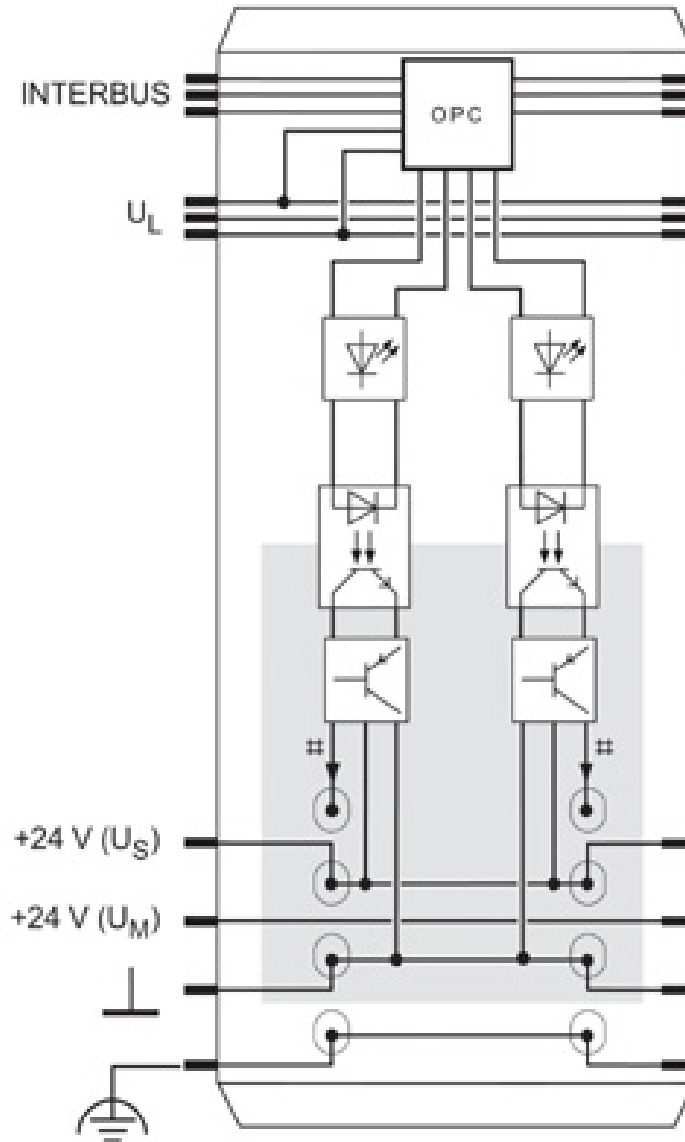
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Block diagram



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Environmental product compliance

EU REACH SVHC

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