

# ILB IB 24 DI16-DSUB - I/O module



2878421

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Inline Block IO digital input module, INTERBUS, 16 inputs, 24 V DC, 2-, 3-conductor connection technology



## Commercial data

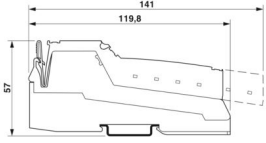
Item number	2878421
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DRI1A1
GTIN	4046356048569
Weight per piece (including packing)	319.1 g
Weight per piece (excluding packing)	263.56 g
Customs tariff number	85389091
Country of origin	DE

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## Technical data

### Dimensions

Dimensional drawing	
Width	95 mm
Height	141 mm
Depth	57 mm
Note on dimensions	Specifications with connectors

### Material specifications

Color	green
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### Interfaces

#### INTERBUS

Connection method	D-SUB-9 female/D-SUB-9 male
Transmission speed	500 kbps

### Input data

#### Digital:

Input name	Digital inputs
Number of inputs	16 (IEC 61131-2 type 1)
Connection method	Spring-cage connection
Connection technology	2-, 3-conductor
Nominal input voltage $U_{IN}$	24 V DC
Typical response time	approx. 500 $\mu$ s
Protective circuit	Short-circuit protection, overload protection of the sensor supply

### Product properties

Product type	I/O component
Product family	Inline
Type	Block design
No. of channels	16

### Electrical properties

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

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)

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Power supply	max. 8 A
Current draw	60 mA

## Potentials: Sensor supply (U<sub>S</sub>)

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Power supply	max. 8 A
Current draw	2 A

## Potentials

Power supply	max. 8 A
Current draw	60 mA

## Potentials

Power supply	max. 8 A
Current draw	2 A

## Connection data

### Connection technology

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

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Degree of protection	IP20
Air pressure (operation)	80 kPa ... 108 kPa (up to 2000 m above sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (up to 3500 m above sea level)
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	max. 85 % (non-condensing)
Permissible humidity (storage/transport)	95 % (non-condensing)

### Mechanical test

Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	5g
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	25g 25g

## Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
Noise emission	Class B (residential)

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## Mounting

Mounting type	NS 35/7,5
	DIN rail mounting

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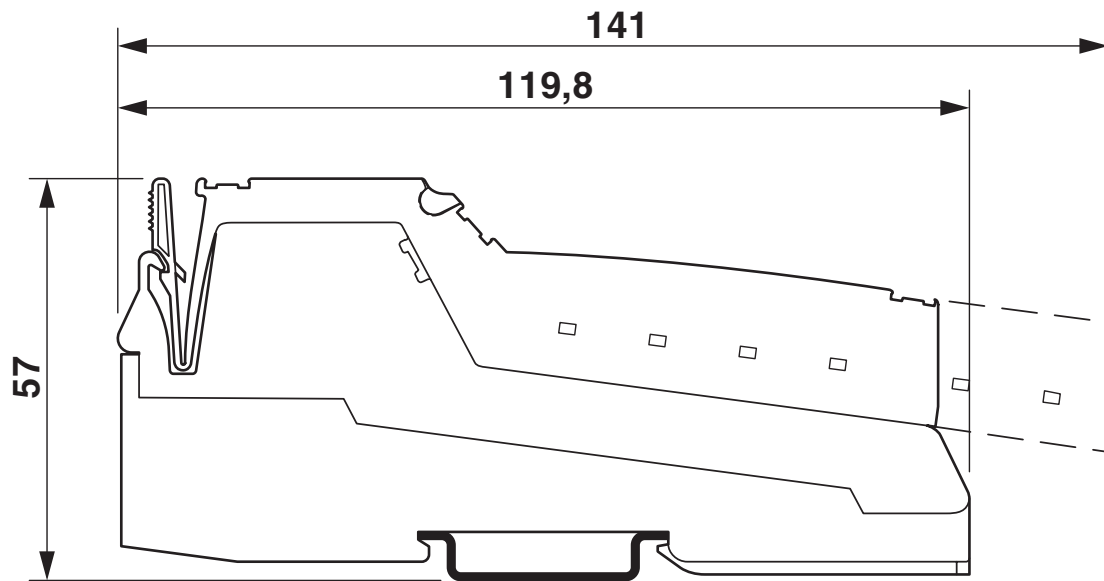
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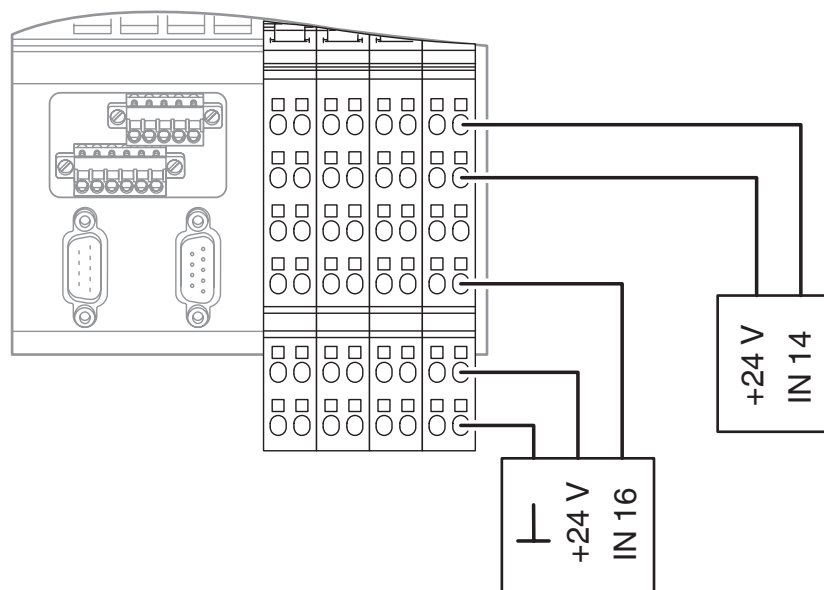


## Drawings

Dimensional drawing



Connection diagram



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## Environmental product compliance

EU REACH SVHC

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