

I/O module - ILB IB 24 DI16 DO16-DSUB



2878625

<https://www.phoenixcontact.com/us/products/2878625>

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Inline, Block IO, INTERBUS, D-SUB-9 female/D-SUB-9 male, Digital inputs: 16, 24 V DC, connection technology: 3-conductor, Digital outputs: 16, 24 V DC, connection technology: 3-conductor, degree of protection: IP20, including Inline connector

Your advantages

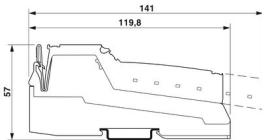
- 16 digital inputs
- Connection of sensors in 2- and 3-conductor technology
- Maximum permissible load current per sensor: 125 mA
- Maximum permissible load current from the terminal: 2 A
- 16 digital outputs
- Connection of actuators in 2- and 3-conductor technology
- Nominal current per output: 500 mA
- Total current of the terminal: 8 A
- Short-circuit and overload-protected outputs
- Diagnostic and status indicators

Commercial Data

Item number	2878625
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Sales Key	C21
Product Key	DRI1A1
Catalog Page	Page 164 (C-6-2019)
GTIN	4046356048590
Weight per Piece (including packing)	492.3 g
Weight per Piece (excluding packing)	440 g
Customs tariff number	85389091
Country of origin	DE

Technical Data

Dimensions

Dimensional drawing	
Width	156 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
Description of the input	EN 61131-2 type 1
Number of inputs	16
Connection method	Spring-cage connection
Connection technology	3-conductor
Nominal input voltage U_{IN}	24 V DC
Typical response time	approx. 500 μ s
Protective circuit	Short-circuit protection, overload protection of the sensor supply

Output data

Digital

Output name	Digital outputs
Connection method	Spring-cage connection
Connection technology	3-conductor
Number of outputs	16
Protective circuit	Short-circuit and overload protection
Output voltage	24 V DC

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Maximum output current per channel	500 mA
Nominal output voltage	24 V DC

Product properties

Type	Block design
Product type	I/O component
Scope of delivery	including Inline connector
No. of channels	32

Electrical properties

No. of channels	32
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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)
	max. 8 A
Current draw	80 mA

Potentials

	max. 8 A
Current draw	2 A

Potentials: Power supply to the actuator (U_{A1})

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
	max. 8 A
Current draw	4 A

Potentials: Power supply to the actuator (U_{A2})

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
	max. 8 A
Current draw	4 A

Potentials

	max. 8 A
Current draw	80 mA

Potentials

	max. 8 A
Current draw	2 A

Connection data

Connection technology

Connection name	Inline connector
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Conductor connection

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Connection method	Spring-cage connection
Conductor cross section solid	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

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)

Standards and regulations

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

Mounting

Mounting type	NS 35/7,5
Mounting type	DIN rail mounting

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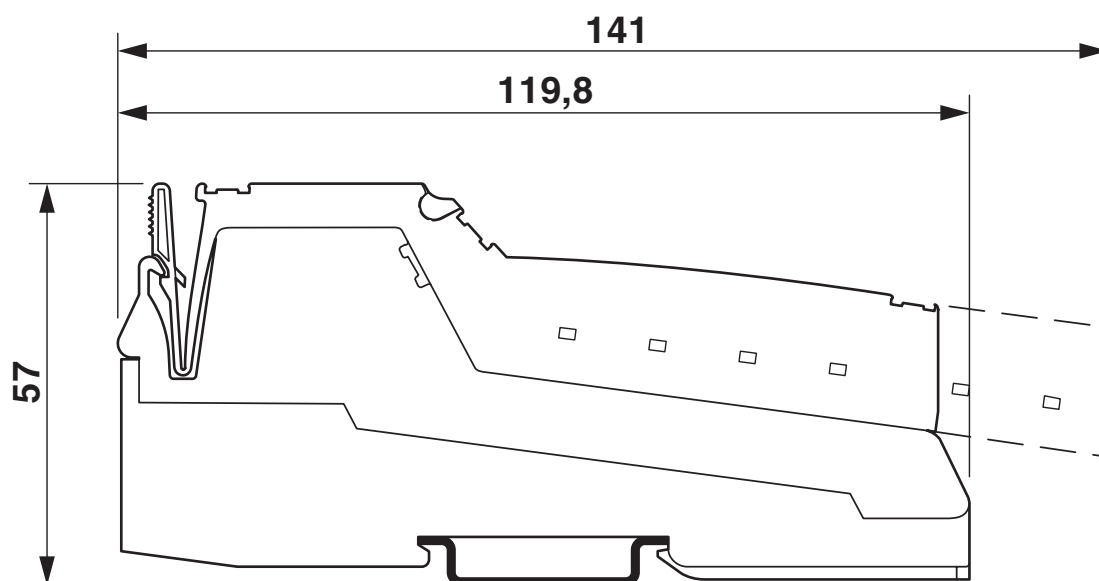
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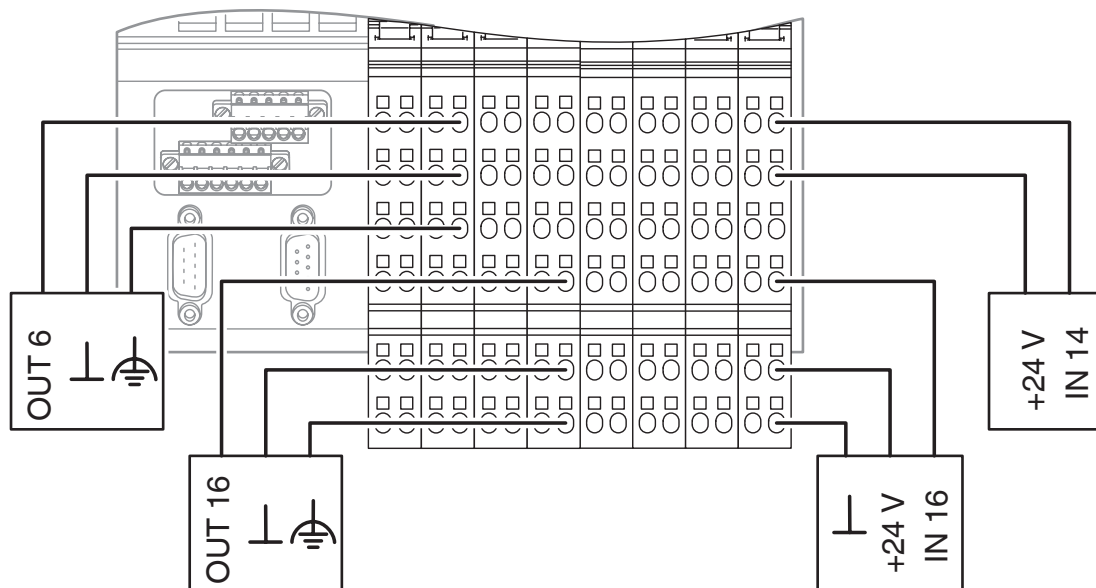


Drawings

Dimensional drawing



Connection diagram



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Approvals

INTERBUS CLUB

Approval ID: 454/02.12.05

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Classifications

ECLASS

ECLASS-9.0	27242604
ECLASS-10.0.1	27242604
ECLASS-11.0	27242604

ETIM

ETIM 8.0	EC001599
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UNSPSC

UNSPSC 21.0	32151600
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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Accessories

End clamp

End clamp - CLIPFIX 35-5 - 3022276

<https://www.phoenixcontact.com/us/products/3022276>



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray

Labeling field

Labeling field - IB IL FIELD 2 - 2727501

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Labeling field, width: 12.2 mm

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Insert strip

Insert strip - ESL 62X10 - 0809492

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Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems: Laser printer, mounting type: insert, lettering field size: 62 x 10 mm, Number of individual labels: 72



Flat zack marker sheet

Flat zack marker sheet - ZBFM 6/WH:UNBEDRUCKT - 0803618

<https://www.phoenixcontact.com/us/products/0803618>

Flat zack marker sheet, Sheet, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 5 x 5.5 mm, Number of individual labels: 100



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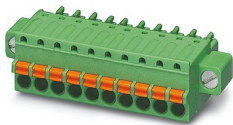
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PCB connector

PCB connector - FK-MCP 1,5/ 5-STF-3,81 - 1851261

<https://www.phoenixcontact.com/us/products/1851261>

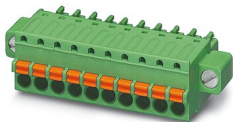


PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Female connector, number of potentials: 5, number of rows: 1, number of positions: 5, number of connections: 5, product range: FK-MCP 1,5/...-STF, pitch: 3.81 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, number of solder pins per potential: 1, plug-in system: COMBICON MC 1,5, locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard

PCB connector

PCB connector - FK-MCP 1,5/ 6-STF-3,81 - 1851274

<https://www.phoenixcontact.com/us/products/1851274>



PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Female connector, number of potentials: 6, number of rows: 1, number of positions: 6, number of connections: 6, product range: FK-MCP 1,5/...-STF, pitch: 3.81 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, number of solder pins per potential: 1, plug-in system: COMBICON MC 1,5, locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard

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Inline connector

Inline connector - IB IL SCN-12-ICP - 2727611

<https://www.phoenixcontact.com/us/products/2727611>



Connector, color coded, for digital 4, or 16-channel Inline input terminals

Inline connector

Inline connector - IB IL SCN-12-OCP - 2727624

<https://www.phoenixcontact.com/us/products/2727624>

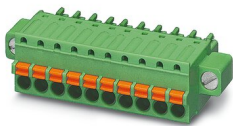


Connector, colored identification, for digital 4, or 16-channel Inline output terminal blocks

PCB connector

PCB connector - FK-MCP 1,5/ 4-STF-3,81 - 1851258

<https://www.phoenixcontact.com/us/products/1851258>



PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Female connector, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: FK-MCP 1,5/...-STF, pitch: 3.81 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, number of solder pins per potential: 1, plug-in system: COMBICON MC 1,5, locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard

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