

ILB PB 24 DI16 DO16

Order No.: 2862411

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Inline Block IO digital input/output module, PROFIBUS, 16 inputs, 24 V DC, 2, 3-wire connection technology, 16 outputs, 24 V DC, 500 mA, 2, 3-wire connection technology

**Commercial data**

EAN	4017918923884
Pack	1 pcs.
Customs tariff	85389091
Weight/Piece	0.5158 KG
Catalog page information	Page 325 (AX-2009)

Product notes

WEEE/RoHS-compliant since:
11/27/2007



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Technical data**Interface**

Fieldbus system	PROFIBUS DP
Name	PROFIBUS-DP
Type of connection	D-SUB-9 female connector

Transmission rate	9.64 kBaud to 12 MBaud
Transmission speed	9,6 kBit/s 12 MBit/s
Number of positions	9

Digital inputs

Input name	Digital inputs
Description of the input	EN 61131-2 type 1
Type of connection	Spring-cage connection
Connection method	2, 3-wire
Number of inputs	16
Typical response time	Approx. 500 µs
Protective circuitry	Short circuit protection, overload protection of the sensor supply
Input voltage	24 V DC
Input voltage range "0" signal	-30 V DC ... 5 V DC
Input voltage range "1" signal	15 V DC ... 30 V DC
Nominal input current at U_{IN}	5 mA

Digital outputs

Output name	Digital outputs
Type of connection	Spring-cage connection
Connection method	2, 3-wire
Number of outputs	16
Maximum output current per channel	500 mA
Protective circuitry	Short circuit and overload protection
Output voltage	24 V DC
Nominal output voltage	24 V DC
Maximum output current per module / terminal block	8 A
Maximum output current per module	8 A
Nominal load, inductive	12 VA
Nominal load, lamp	12 W
Nominal load, ohmic	12 W

Power supply for module electronics

Supply voltage	24 V DC
Range of supply voltages	19.2 V DC ... 30 V DC
Supply current	70 mA
Current consumption	Approx. 70 mA

General data

Width	156 mm
Height	141.1 mm
Depth	57 mm
Note on dimensions	Specifications with male connectors
Weight	500 g
Note on weight specifications	with male connectors
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	85 % (no condensation)
Permissible humidity (storage/transport)	95 % (no condensation)
Air pressure (operation)	80 kPa ... 108 kPa (up to 2000 m above mean sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (up to 3500 m above mean sea level)
Degree of protection	IP20
Test section	I/Os / Profibus 500 V AC 50 Hz 1 min
	I/O area / FE 500 V AC 50 Hz 1 min
	PROFIBUS / FE 500 V AC 50 Hz 1 min
Conformance with EMC directives	EN 55011:1998+A1:1999 Class A
Emitted interference	Industrial environment
Mechanical tests	Vibration (operation) in acc. with IEC 60068-2-6:1982 5g
	Shock test in acc. with IEC 60068-2-27 25g
Diagnostics messages	Short circuit / overload of the digital outputs Message in the diagnostics register
	Short circuit, sensor supply Message in the diagnostics register
	Undervoltage Power supply for sensors Message in the diagnostics register
Mounting type	DIN rail

Certificates / Approvals



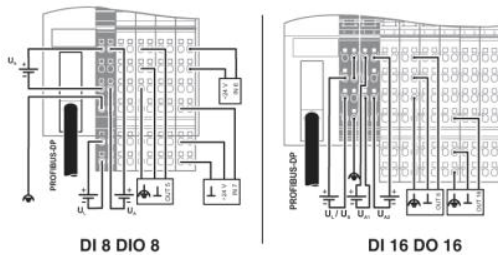
Certification CUL, UL
 Certification Ex: CUL-EX LIS, UL-EX LIS

Accessories

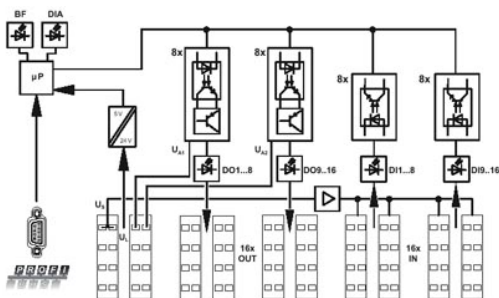
Item	Designation	Description
Plug/Adapter		
2727611	IB IL SCN-12-ICP	Connector, color coded, for digital 4, or 16-channel Inline input terminals
2727624	IB IL SCN-12-OCP	Connector, colored identification, for digital 4, or 16-channel Inline output terminal blocks
2727637	IB IL SCN-PWR IN-CP	Connector, colored, for Inline power and segment terminal blocks
2744348	SUBCON-PLUS-PROFIB	SUB-D connector, 9-pos., with two cable entries, bus system: Profibus with 12 Mbps (termination resistor can be connected via a slide switch), pin assignment: 3, 5, 6, 8, Version: Male

Diagrams/Drawings

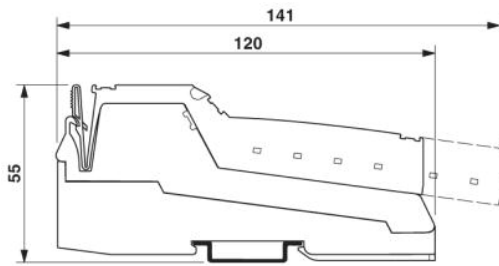
Connection diagram



Block diagram



Dimensioned drawing



The illustration shows the general dimensional drawing of the Inline Block I/O product family

Approbationslogos (EX-Bereich)



Address

PHOENIX CONTACT Inc., USA
586 Fulling Mill Road
Middletown, PA 17057, USA
Phone (800) 888-7388
Fax (717) 944-1625
<http://www.phoenixcon.com>



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