

ILC 200 IB - Controller

2729800

<https://www.phoenixcontact.com/us/products/2729800>



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Inline controller, without connecting plug and labeling field. The controller is installed instead of a standard Inline bus coupler. It connects the station to the higher-level INTERBUS network in the same way as a bus coupler.

Your advantages

- Fast inputs for interrupt processing, event counting, and period measurement
- 24 V high-speed outputs for pulse width modulation

Commercial data

Item number	2729800
Packing unit	1 pc
Sales key	DR10
Product key	DRAAAB
GTIN	4017918185992
Weight per piece (including packing)	387 g
Weight per piece (excluding packing)	342.4 g
Customs tariff number	85371091
Country of origin	DE

Technical data

Product properties

Product type	Controller
Product family	Inline
Type	modular

Display

Diagnostics display	no
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System properties

Retentive data storage	8 kByte (NVRAM)
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IEC 61131 runtime system

Program memory	typ. 384 kByte (32 K instructions (IL))
Data storage system	330 kByte
Number of control tasks	8

INTERBUS-Master

Amount of process data	max. 4096 bit (INTERBUS-Master)
Amount of process data (INTERBUS input/output data max.)	max. 4096 bit (INTERBUS-Master)
Amount of process data	160 bit (INTERBUS-Slave)
Number of parameter data	max. 8 Byte (configurable)
Number of supported devices	max. 512 (of which 254 are remote bus devices/bus segments)
Number of local bus devices that can be connected	max. 63 (observe current consumption)
Number of devices with parameter channel	max. 62
Number of supported branch terminals with remote bus branch	max. 15

Function

Diagnostics display	no
Redundancy function	no

Local diagnostics

Designation	BA, RC, RD, TR
Monitored function	Higher-level network
Optical representation	LED

Programming data

ID code (dec.)	3
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System requirements

Diagnostics tool	DIAG+ from version 1.14
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Electrical properties

Local diagnostics	BA, RC, RD, TR Higher-level network LED
	FC RUN, SYSFAIL IEC 61131 runtime system LED
	RDY/RUN, BSA, FAIL, PF INTERBUS master LED

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Transmission medium	Copper
Maximum power dissipation for nominal condition	max. 3.25 W

Supply

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC
Power supply connection	8-pos. Inline connector
Max. total permissible current consumption of all I/O terminal blocks	Communications power (7,5 V DC) \leq 2 A DC Analog supply (24 V DC) \leq 0.5 A
Residual ripple	\pm 5 %
Typical current consumption	153 mA (no local bus device connected during idling, bus inactive)

Potentials

Supply voltage	7.5 V DC \pm 5 %
Power supply	2 A DC (observe derating)

Potentials

Supply voltage	24 V DC -15 % / +20 %
Power supply	0.5 A DC (observe derating)

Potentials

Supply voltage	24 V DC -15 % / +20 % (in accordance with EN 61131-2)
Power supply	8 A (maximum)

Potentials

Supply voltage	24 V DC -15 % / +20 % (in accordance with EN 61131-2)
Power supply	8 A (maximum)
Current draw	max. 2 A

Input data

Digital:

Input name	Digital inputs
Description of the input	Interrupt input, fast counter, pulse generator
Number of inputs	4
Connection method	Inline potential distributor
Connection technology	2-, 3-, 4-conductor
Input voltage	2 x 24 V DC + 2 x 5/24 V DC
Typical input current per channel	40 mA
Typical response time	< 1 ms

Counter:

Number of inputs	4
Input frequency	40 kHz

Output data

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Digital:

Output name	Digital outputs
Connection method	Spring-cage connection
Connection technology	2-, 3-, 4-conductor
Number of outputs	2
Output voltage	24 V DC
Maximum output current per channel	500 mA

Pulse direction

Number of pulse direction outputs	2
Limit frequency	20 kHz

Connection data

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

Interfaces

INTERBUS local bus (master)

Number of interfaces	1
Connection method	Inline data jumper
Transmission speed	500 kBaud / 2 MBaud (can be switched)

Higher-level INTERBUS remote bus (slave)

Connection method	Inline shield connector
Transmission speed	500 kBaud
No. of channels	1

Parameterization/operation/diagnostics

Bus system	RS-232
Number of interfaces	1
Connection method	6-pos. MINI DIN socket (PS/2)
Transmission speed	19200 Baud
Transmission physics	Copper

Dimensions

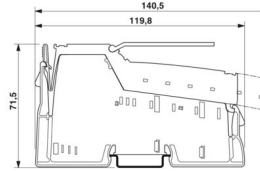
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Dimensional drawing



Width	109.8 mm
Height	119.8 mm
Depth	71.5 mm

Material specifications

Color	green (RAL 6021)
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 75 °C
Permissible humidity (operation)	5 % ... 85 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 85 % (non-condensing)
Shock	25g, Criterion 1, according to IEC 60068-2-27
Vibration (operation)	2g, criterion 1 according to IEC 60068-2-6
Air pressure (operation)	70 kPa ... 108 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (up to 3500 m above sea level)

Mounting

Mounting type	DIN rail mounting
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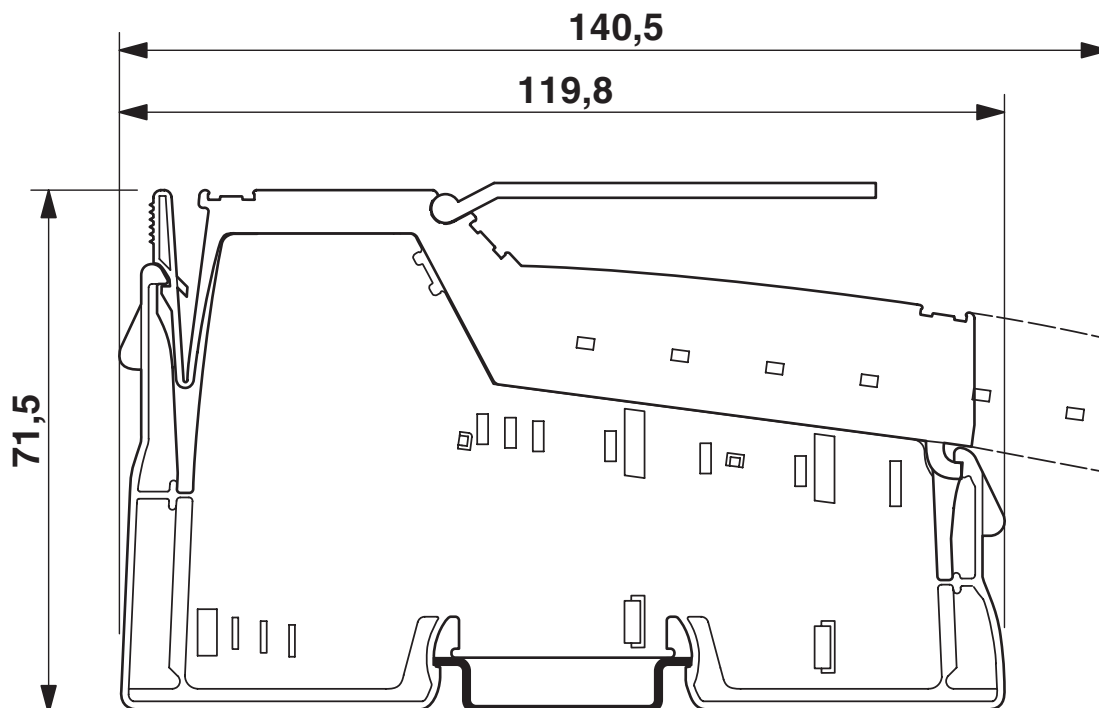
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Drawings

Dimensional drawing



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Classifications

UNSPSC

UNSPSC 21.0	32151700
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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