# ILC 330 PN - Controller

2988191

https://www.phoenixcontact.com/gb/products/2988191

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Inline Controller with PROFINET interfaces for coupling to other controllers and systems, with programming options according to IEC 61131-3, complete with plug and labeling field.

## Your advantages

- Engineering with PC Worx (IEC 61131-3)
- Integrated Ethernet interface
- Numerous protocols supported such as: HTTP, FTP, SNTP, SNMP, SMTP, SQL, MySQL, etc.
- Integrated PROFINET controller and PROFINET device
- Integrated web server for visualization with WebVisit
- FTP server
- Flash file system
- Complete fieldbus master (8192 I/O points)

## Commercial data

| | |
|---|---|
| Item number | 2988191 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DRAAAC |
| Product key | DRAAAC |
| GTIN | 4046356341738 |
| Weight per piece (including packing) | 794.8 g |
| Weight per piece (excluding packing) | 765.3 g |
| Customs tariff number | 85371091 |
| Country of origin | Information on the country of origin is provided with the delivery. |

# Technical data

## Product properties

| | |
|---|---|
| Product type | Controller |
| Product family | Inline |
| Type | modular |

Display

| | |
|---|---|
| Diagnostics display | no |

## System properties

IEC 61131 runtime system

| | |
|---|---|
| Program memory | typ. 750 kByte (64 K instructions (IL)) |
| Retentive data storage | 64 kByte (NVRAM) |
| Data storage system | 1.5 Mbyte |
| Number of data blocks | depending on data storage |
| Number of control tasks | 16 |

System limits

| | |
|---|---|
| Amount of process data (INTERBUS input/output data) | max. 8192 bit (INTERBUS) |
| Number of supported devices (INTERBUS) | max. 512 (in total, of which 254 are remote bus devices/bus segments) |
| Number of local bus devices that can be connected (INTERBUS) | max. 63 (observe current consumption) |
| Number of devices with parameter channel | max. 62 |
| Number of supported branch terminals with remote bus branch | 15 |

PROFINET

| | |
|---|---|
| Device function | PROFINET-Controller |
| Specification | Version 1.1 |
| Update rate | min. 1 ms |

Function

| | |
|---|---|
| Diagnostics display | no |
| Redundancy function | no |

Functionality

| | |
|---|---|
| Programming tool | PC Worx |

System requirements

| | |
|---|---|
| Diagnostics tool | DIAG+ from version 1.14 |

## Electrical properties

| | |
|---|---|
| Transmission medium | Copper |
| Maximum power dissipation for nominal condition | max. 6 W |

Supply

| | |
|---|---|
| Supply voltage | 24 V DC ±5 % |
| Supply voltage range | 20.4 V DC ... 30 V DC |
| Residual ripple | ± 5 % |
| Typical current consumption | 250 mA (no local bus device connected during idling, bus inactive) |

Real-time clock

| | |
|---|---|
| Realtime clock | Integrated (battery backup) |

Potentials

| | |
|---|---|
| Supply voltage | 7.5 V DC ±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 | max. 8 A |

Potentials

| | |
|---|---|
| Supply voltage | 24 V DC -15 % / +20 % (in accordance with EN 61131-2) |
| Power supply | max. 8 A |
| Current draw | max. 5 A |

## Input data

Digital:

| | |
|---|---|
| Input name | Digital inputs |
| Description of the input | Eight fast inputs, interrupt input |
| Number of inputs | 12 |
| Connection method | Inline potential distributor |
| Connection technology | 2-, 3-, 4-conductor |

## Output data

Digital:

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

## Connection data

Inline connector

| | |
|---|---|
| Connection method | Spring-cage connection |
| Conductor cross-section, rigid | 0.08 mm² ... 1.5 mm² |
| Conductor cross-section, flexible | 0.08 mm² ... 1.5 mm² |
| Conductor cross-section AWG | 28 ... 16 |

## Interfaces

INTERBUS local bus (master)

| | |
|---|---|
| Connection method | Inline data jumper |
| Transmission speed | 500 kBaud / 2 MBaud (can be switched) |

Parameterization/programming/diagnostics

| | |
|---|---|
| Bus system | RS-232 |
| Connection method | RS-232-C, 6-pos. MINI-DIN socket (PS/2), Ethernet 10/100 (RJ45) |
| Transmission physics | Copper |
| No. of channels | 1 |

Ethernet 10Base-T/100Base-TX

| | |
|---|---|
| Bus system | RJ45 |
| Connection method | RJ45 jack |
| Transmission speed | 10/100 Mbps |
| No. of channels | 1 |

## Dimensions

| | |
|---|---|
| Width | 182 mm |
| Height | 140.5 mm |
| Depth | 71.5 mm |

## Material specifications

| | |
|---|---|
| Color | green (RAL 6021) |

## Environmental and real-life conditions

Ambient conditions

| | |
|---|---|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -25 °C ... 55 °C |
| Ambient temperature (storage/transport) | -25 °C ... 85 °C |
| Permissible humidity (operation) | 10 % ... 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 10 % ... 95 % (non-condensing) |
| Shock | 25g, Criterion 1, according to IEC 60068-2-27 |
| Vibration (operation) | 5g, accordance to IEC 60068-2-6 |
| 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) |

## Mounting

| | |
|---|---|
| Mounting type | DIN rail mounting |

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(a), 6(a)-I, 6(c), 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

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


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