

# ILC 155 ETH - Controller



2988188

<https://www.phoenixcontact.com/us/products/2988188>

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

## Your advantages

- Flash file system
- Complete INTERBUS master (4096 I/O points)
- FTP server
- Integrated web server for visualization with WebVisit
- Free engineering with PC Worx Express (IEC 61131-3)
- Numerous protocols supported such as: HTTP, FTP, SNMP, SMTP, SQL, MySQL, etc.

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2988188                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | NULL                           |
| Product key                          | DRAAAA                         |
| GTIN                                 | 4046356283847                  |
| Weight per piece (including packing) | 363.1 g                        |
| Weight per piece (excluding packing) | 352.8 g                        |
| Customs tariff number                | 85371091                       |
| Country of origin                    | DE                             |

## Technical data

### Notes

#### Utilization restriction

|          |   |
|----------|---|
| EMC note | EMC: class A product, see manufacturer's declaration in the download area |
|----------|---|

### Product properties

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

#### Display

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

### System properties

|                        |                  |
|------------------------|------------------|
| Retentive data storage | 48 kByte (NVRAM) |
|------------------------|------------------|

#### IEC 61131 runtime system

|                         |           |
|-------------------------|-----------|
| Program memory          | 512 kByte |
| Data storage system     | 512 kByte |
| Number of control tasks | 8         |

#### INTERBUS-Master

|   |                                       |
|---|---------------------------------------|
| Amount of process data                                      | max. 4096 bit (INTERBUS)              |
| Amount of process data (INTERBUS input/output data max.)    | max. 4096 bit (INTERBUS)              |
| Number of supported devices                                 | max. 128                              |
| Number of local bus devices that can be connected           | max. 63 (observe current consumption) |
| Number of devices with parameter channel                    | max. 16                               |
| Number of supported branch terminals with remote bus branch | max. 3                                |

#### Function

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

#### System requirements

|                       |                               |
|-----------------------|-------------------------------|
| Configuration tool    | Config+ Version 1.01 or later |
| Diagnostics tool      | DIAG+                         |
| Runtime system        | eCLR                          |
| Application interface | OPC                           |

### Electrical properties

|   |          |
|---|----------|
| Transmission medium                             | Copper   |
| Maximum power dissipation for nominal condition | max. 5 W |

#### Supply

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|                             |   |
|-----------------------------|---|
| Supply voltage              | 24 V DC   |
| Supply voltage range        | 19.2 V DC ... 30 V DC   |
| Residual ripple             | ± 5 %   |
| Max. current consumption    | 870 mA (370 mA communications power + 500 mA analog voltage supply) |
| Typical current consumption | 210 mA  |

## Real-time clock

|                            |  |
|----------------------------|--|
| Realtime clock             | yes  |
| Description realtime clock | integrated (rechargeable battery buffered) |

## Potentials

|                |                             |
|----------------|-----------------------------|
| Supply voltage | 7.5 V DC ±5 %               |
| Power supply   | 0.8 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 DC (sum of $U_M + U_S$ )                          |
| Current draw   | 8 A DC  |

## Potentials

|                |   |
|----------------|---|
| Supply voltage | 24 V DC -15 % / +20 % (in accordance with EN 61131-2) |
| Power supply   | 8 A (sum of $U_M + U_S$ )                             |
| Current draw   | 8 A DC  |

## Input data

### Digital:

|                       |                              |
|-----------------------|------------------------------|
| Input name            | Digital inputs               |
| Number of inputs      | 8                            |
| 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                      |
| Maximum output current per channel | 500 mA                 |

## Connection data

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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                                    |

## Interfaces

### INTERBUS local bus (master)

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

### Parameterization/operation/diagnostics

|                      |   |
|----------------------|---|
| Bus system           | RS-232  |
| Connection method    | RS-232-C, 6-pos. MINI-DIN socket (PS/2), Ethernet 10/100 (RJ45) |
| Transmission speed   | max. 115.2 kbps   |
| 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  | 80 mm    |
| Height | 119.8 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 % (according to DIN EN 61131-2)       |
| Permissible humidity (storage/transport) | 10 % ... 95 % (according to DIN EN 61131-2)       |
| Shock                                    | 25g, Criterion 1, according to IEC 60068-2-27     |
| Vibration (operation)                    | 5g  |
| 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) |

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## Mounting

Mounting type

DIN rail mounting

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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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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)