

## Controller - ILC 150 ETH - 2985330

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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.

### Product Description

With the ILC 150 ETH, the highly modular Inline Controller range from Phoenix Contact has been extended to include a high-performance compact controller. This controller can be used to extend the possible field of application of Inline Controllers right down to smaller applications. With direct integration in the Inline automation system, the compact controller is highly modular and can be adapted to the relevant application requirements. Its integrated Ethernet interface enables parameterization and programming using PC WorX automation software according to IEC 61131, and it can also exchange data with OPC servers simultaneously and communicate with TCP/IP-compatible devices.

The Inline Controller range covers a wide performance range. From entry-level versions through to high-end controllers, users can find the right controller for their application. Within the product portfolio, users can choose between controllers with different computing capacities, with or without PROFINET controllers, and with or without GL approval.

### Your advantages

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



### Key Commercial Data

|              |                                                                                      |
|--------------|--------------------------------------------------------------------------------------|
| Packing unit | 1 pc                                                                                 |
| GTIN         |  |
| GTIN         | 4046356096409                                                                        |

### Technical data

#### Note

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

#### Dimensions

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## Technical data

### Dimensions

|        |          |
|--------|----------|
| Width  | 80 mm    |
| Height | 119.8 mm |
| Depth  | 71.5 mm  |

### 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)       |
| 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) |
| Shock                                    | 25g, Criterion 1, according to IEC 60068-2-27     |
| Vibration (operation)                    | 5g                                                |

### Control system

|                    |                               |
|--------------------|-------------------------------|
| Engineering tool   | PC WORX                       |
|                    | PC WORX EXPRESS               |
| Diagnostics tool   | DIAG+                         |
| Configuration tool | Config+ Version 1.01 or later |

### Mechanical design

|                       |       |
|-----------------------|-------|
| Weight                | 285 g |
| Diagnostics display   | No    |
| Controller redundancy | No    |

### Data interfaces

|                    |                                        |
|--------------------|----------------------------------------|
| Interface          | INTERBUS local bus (master)            |
| Number             | 1                                      |
| Connection method  | Inline data jumper                     |
| Transmission speed | 500 kBaud / 2 MBaud (can be switched)  |
| Interface          | Parameterization/operation/diagnostics |
| Number             | 1                                      |
| Connection method  | 6-pos. MINI DIN socket (PS/2)          |
| Transmission speed | max. 115.2 kbps                        |
| Interface          | Ethernet 10Base-T/100Base-TX           |
| Number             | 1                                      |
| Connection method  | RJ45 socket                            |
| Transmission speed | 10/100 Mbps                            |

### Power supply

|                             |                                                                     |
|-----------------------------|---------------------------------------------------------------------|
| Typical current consumption | 210 mA                                                              |
| Max. current consumption    | 870 mA (370 mA communications power + 500 mA analog voltage supply) |

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## Technical data

### Power supply

|                      |                       |
|----------------------|-----------------------|
| Supply voltage       | 24 V DC               |
| Supply voltage range | 19.2 V DC ... 30 V DC |
| Residual ripple      | ± 5 %                 |
| Power dissipation    | max. 5 W              |

### Fieldbus function

|                                                             |                                       |
|-------------------------------------------------------------|---------------------------------------|
| Amount of process data                                      | 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                                |

### Direct I/Os

|                                    |                              |
|------------------------------------|------------------------------|
| Input name                         | Digital inputs               |
| Number of inputs                   | 8                            |
| Connection method                  | Inline potential distributor |
| Connection technology              | 2, 3, 4-wire                 |
| Output name                        | Digital outputs              |
| Number of outputs                  | 4                            |
| Connection method                  | Spring-cage connection       |
| Connection technology              | 2, 3, 4-wire                 |
| Maximum output current per channel | 500 mA                       |

### IEC 61131 runtime system

|                         |                 |
|-------------------------|-----------------|
| Engineering tool        | PC WORX         |
|                         | PC WORX EXPRESS |
| Program memory          | typ. 256 kByte  |
| Mass storage            | 256 kByte       |
| Retentive mass storage  | 8 kByte (NVRAM) |
| Number of control tasks | 8               |
| Realtime clock          | Yes             |

### Standards and Regulations

|                               |                                               |
|-------------------------------|-----------------------------------------------|
| Vibration (storage/transport) | 5g                                            |
| Shock                         | 25g, Criterion 1, according to IEC 60068-2-27 |
| Vibration (operation)         | 5g                                            |

### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| REACH SVHC | 1,2-dimethoxyethane,ethylene glycol dimethyl ether (EGDME) 110-71-4                                 |
|            | Lead 7439-92-1                                                                                      |
| China RoHS | Environmentally Friendly Use Period = 50                                                            |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Controller - ILC 150 ETH - 2985330

### Approvals

#### Approvals

#### Approvals

DNV GL / BV / LR / BSH / RINA / UL Listed / cUL Listed / EAC / EAC / cULus Listed

#### Ex Approvals

ATEX / UL Listed / cUL Listed / cULus Listed

#### Approval details

|            |                                                                                     |                                                                                                                                                                                                                               |                          |
|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| DNV GL     |                                                                                     | <a href="http://exchange.dnv.com/tari/">http://exchange.dnv.com/tari/</a>                                                                                                                                                     | TAA00000BN               |
| BV         |    | <a href="http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials">http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials</a> | 20989/B2_BV              |
| LR         |  | <a href="http://www.lr.org/en">http://www.lr.org/en</a>                                                                                                                                                                       | 08/20033                 |
| BSH        |                                                                                     | <a href="http://www.bsh.de/de/index.jsp">http://www.bsh.de/de/index.jsp</a>                                                                                                                                                   | 658                      |
| RINA       |  | <a href="http://www.rina.org/en">http://www.rina.org/en</a>                                                                                                                                                                   | ELE183315XG              |
| UL Listed  |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>                                                                         | FILE E 140324            |
| cUL Listed |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>                                                                         | FILE E 140324            |
| EAC        |  |                                                                                                                                                                                                                               | EAC-Zulassung            |
| EAC        |  |                                                                                                                                                                                                                               | RU *-<br>DE.A*30.B.00238 |

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### Approvals

cULus Listed



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