

Controller - ILC 155 ETH - 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.

Product Description

With the ILC 155 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

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



Key Commercial Data

| | |
|--------------------------------------|-----------|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 352.800 g |
| Custom tariff number | 85371091 |
| Country of origin | Germany |

Technical data

Note

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Technical data

Note

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

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) |
| Connection method | Inline data jumper |
| Transmission speed | 500 kBaud / 2 MBaud (can be switched) |
| Interface | Parameterization/operation/diagnostics |
| Connection method | RS-232-C, 6-pos. MINI-DIN socket (PS/2), Ethernet 10/100 (RJ45) |
| Transmission speed | max. 115.2 kbps |
| Interface | Ethernet 10Base-T/100Base-TX |
| Connection method | RJ45 jack |
| Transmission speed | 10/100 Mbps |

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Power supply

| | |
|-----------------------------|---------------------------------------------------------------------|
| Typical current consumption | 210 mA |
| Max. current consumption | 870 mA (370 mA communications power + 500 mA analog voltage 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 |
| Program memory | 512 kByte |

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 | 512 kByte |
| Mass storage | 512 kByte |
| Retentive mass storage | 48 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 |

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Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27250203 |
| eCl@ss 4.1 | 27240601 |
| eCl@ss 5.0 | 27242215 |
| eCl@ss 5.1 | 27242207 |
| eCl@ss 6.0 | 27242207 |
| eCl@ss 7.0 | 27242207 |
| eCl@ss 8.0 | 27242207 |
| eCl@ss 9.0 | 27242207 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC000236 |
| ETIM 3.0 | EC000236 |
| ETIM 4.0 | EC000236 |
| ETIM 5.0 | EC000236 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 43172015 |
| UNSPSC 7.0901 | 43201404 |
| UNSPSC 11 | 43172018 |
| UNSPSC 12.01 | 43201404 |
| UNSPSC 13.2 | 43201404 |

Accessories

Accessories

Drivers and interfaces

Software - AX OPC SERVER - 2985945



AX OPC SERVER, communication interface for OPC-capable visualization with PC WORX-based controls.

Programming cable

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Accessories

Connecting cable - COM CAB MINI DIN - 2400127



Connecting cable, for connecting the controller to a PC (RS-232) for PC WORX with flow control, 3 m in length

Software - IPASSIGN - 2701094



IPAssign is an easy to use tool for setting the IP address of devices which rely on BOOTP. No installation or administrative rights are required to use IPAssign.

This product is free and only available from the "Downloads" tab.