

Controller - ILC 330 ETH - 2737193

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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 330 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 field of application of Inline Controllers through to medium-sized 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

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



Key Commercial Data

| | |
|--------------|--|
| Packing unit | 1 pc |
| GTIN |  |
| GTIN | 4046356042765 |

Technical data

Dimensions

| | |
|--------|----------|
| Width | 182 mm |
| Height | 140.5 mm |

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Technical data

Dimensions

| | |
|-------|---------|
| 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 % (non-condensing) |
| Permissible humidity (storage/transport) | 10 % ... 95 % (non-condensing) |
| 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, accordance to IEC 60068-2-6 |

Control system

| | |
|------------------|-------------------------|
| Engineering tool | PC WORX |
| Diagnostics tool | DIAG+ from version 1.14 |

Mechanical design

| | |
|-----------------------|-------|
| Weight | 440 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/programming/diagnostics |
| Connection method | RS-232-C, 6-pos. MINI-DIN socket (PS/2), Ethernet 10/100 (RJ45) |
| Interface | Ethernet 10Base-T/100Base-TX |
| Connection method | RJ45 socket |
| Transmission speed | 10/100 Mbps |

Power supply

| | |
|-----------------------------|--|
| Typical current consumption | 250 mA (no local bus device connected during idling, bus inactive) |
| Supply voltage | 24 V DC \pm 5 % |
| Supply voltage range | 20.4 V DC ... 30 V DC |
| Residual ripple | \pm 5 % |
| Power dissipation | max. 6 W |

Fieldbus function

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

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Technical data

Fieldbus function

| | |
|---|----|
| Number of supported branch terminals with remote bus branch | 15 |
|---|----|

Direct I/Os

| | |
|------------------------------------|------------------------------------|
| Input name | Digital inputs |
| Number of inputs | 12 |
| Connection method | Inline potential distributor |
| Connection technology | 2, 3, 4-wire |
| Description of the input | Eight fast inputs, interrupt input |
| 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 |
| Program memory | typ. 750 kByte |
| Mass storage | 1.5 Mbyte |
| Retentive mass storage | 64 kByte (NVRAM) |
| Number of control tasks | 16 |
| Realtime clock | Integrated (battery backup) |

Standards and Regulations

| | |
|-------------------------------|--|
| Vibration (storage/transport) | 5g, 10 Hz ... 150 Hz, in accordance with IEC 60068-2-6 |
| Shock | 25g, Criterion 1, according to IEC 60068-2-27 |
| Vibration (operation) | 5g, accordance to IEC 60068-2-6 |

Environmental Product Compliance

| | |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 50 |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings

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Dimensional drawing

