

Controller - ILC 131 ETH/XC - 2701034

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Inline controller for use under harsh ambient conditions, with Ethernet interface for coupling to other controllers and systems, with programming options according to IEC 61131-3, complete with connector plug and labeling field.

Product description

With the ILC 131 ETH/XC, the highly modular Inline controller range from Phoenix Contact has been extended to include a powerful high-performance controller. This controller can be used to extend the possible field of application of Inline controllers right down to smaller applications. With direct integration into the Inline automation system, the high-performance 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 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.

Product Features

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



Key commercial data

| | |
|--------------------------------------|-----------|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 380.0 GRM |
| 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) | -40 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °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 mean sea level) |
| Air pressure (storage/transport) | 70 kPa ... 106 kPa (up to 3000 m above mean sea level) |
| Shock | 25g, Criterion 1, according to IEC 60068-2-27 |
| Vibration (operation) | 5g |

Control system

| | |
|--------------------|-------------------------------|
| Programming tool | PC Worx/PC Worx Express |
| Diagnostics tool | DIAG+ |
| Configuration tool | Config+ Version 1.01 or later |

Mechanical design

| | |
|--------|-------|
| Weight | 285 g |
|--------|-------|

Data interfaces

| | |
|--------------------|---|
| Interface | INTERBUS local bus (master) |
| Connection method | Inline data jumper |
| Transmission speed | 500 kBaud / 2 MBaud umschaltbar |
| 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 kBit/s |
| Interface | Ethernet 10Base-T/100Base-TX |
| Connection method | RJ45 socket |
| Transmission speed | 10/100 MBit/s |

PROFINET IO

| | |
|-----------------|-----------------|
| Device function | PROFINET device |
|-----------------|-----------------|

Power supply

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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 % |

Fieldbus function

| | |
|---|--|
| Amount of process data | max. 2048 Bit (INTERBUS) |
| | max. 8192 Bit (internal Modbus Client) |
| Number of supported devices | max. 63 |
| Number of local bus devices that can be connected | max. 63 (observe current consumption) |
| Number of devices with parameter channel | max. 8 |
| Module classification | INTERBUS master |

Direct I/Os

| | |
|------------------------------------|------------------------------|
| Output name | Digital outputs |
| Number of outputs | 4 |
| Connection method | 2, 3, 4-wire |
| Maximum output current per channel | 500 mA |
| Input name | Digital inputs |
| Number of inputs | 8 |
| Connection method | Inline potential distributor |
| Description of the input | EN 61131-2 type 1 NPN/PNP |

IEC 61131 runtime system

| | |
|----------------------------|------------------------------------|
| Programming tool | PC Worx/PC Worx Express |
| Processing speed | 1.7 ms (1 K mix instructions) |
| | 90 µs (1 K bit instructions) |
| Program memory | 192 kByte (16 K instructions (IL)) |
| Mass storage | 192 kByte |
| Retentive mass storage | 8 kByte (NVRAM) |
| Number of data blocks | depends on mass storage |
| Number of timers, counters | depends on mass storage |
| Number of control tasks | 8 |
| Realtime clock | Yes |

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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 |

ETIM

| | |
|----------|----------|
| 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 |

Approvals

Approvals

Approvals

UL Listed / cUL Listed / UL Listed / cUL Listed / DNV / RINA / GL / GL-SW / BSH / LR / GL / DNV / RINA / GL-SW / BSH / BV / cULus Listed / GL

Ex Approvals

ATEX / ATEX / UL Listed / cUL Listed / UL Listed / cUL Listed / cULus Listed

Approvals submitted

Approval details

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Approvals

UL Listed 

cUL Listed 

UL Listed 

cUL Listed 

DNV

RINA

GL

GL-SW

BSH

LR

GL

DNV

RINA


GL-SW

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Approvals

BSH

BV

cULus Listed 

GL

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

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- Подбор аналогов.
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Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)
Email: org@lifeelectronics.ru