

Controller - ILC 370 PN 2TX-IB - 2876915

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Inline Controller with PROFINET interfaces 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 370 PN 2TX-IB, the highly modular Inline Controller range from Phoenix Contact has been extended to include a high-performance PROFINET 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 PROFINET interfaces enable 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.

Product Features

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



Key commercial data

| | |
|--------------------------------------|-----------|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 824.0 GRM |
| Custom tariff number | 85371091 |
| Country of origin | Germany |

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Technical data

Dimensions

| | |
|--------|----------|
| Width | 182 mm |
| Height | 140.5 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 % (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

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

Mechanical design

| | |
|--------|-------|
| Weight | 440 g |
|--------|-------|

Data interfaces

| | |
|--------------------|---|
| Interface | INTERBUS local bus (master) |
| Connection method | Inline data jumper |
| Transmission speed | 500 kBaud / 2 MBaud umschaltbar |
| 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 MBit/s |
| Interface | INTERBUS (Slave) |
| Connection method | D-SUB-9 female/D-SUB-9 male |

PROFINET

| | |
|-----------------|------------------------|
| Device function | PROFINET-IO controller |
| Specification | Version 1.1 |
| Update rate | min. 1 ms |

Power supply

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Technical data

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 | <p></p> |

Fieldbus function

| | |
|---|---|
| Amount of process data | max. 8192 Bit (INTERBUS-Master) |
| | max. 512 Bit (INTERBUS-Slave) |
| 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 | max. 63 (observe current consumption) |
| Number of devices with parameter channel | max. 62 |
| Number of branch terminals with remote bus branch | max. 15 |
| Module classification | INTERBUS master/slave |
| Processing speed | 0.3 ms |

Direct I/Os

| | |
|------------------------------------|------------------------------------|
| Input name | Digital inputs |
| Number of inputs | 12 |
| Connection method | Inline potential distributor |
| Description of the input | Eight fast inputs, interrupt input |
| Output name | Digital outputs |
| Number of outputs | 4 |
| Connection method | 2, 3, 4-wire |
| Maximum output current per channel | 500 mA |

IEC 61131 runtime system

| | |
|----------------------------|--|
| Programming tool | PC WORX |
| Processing speed | 0.3 ms (1 K mix instructions) |
| | 7 μ s (1 K bit instructions) |
| Program memory | typ. 2 Mbyte (170 K instructions (IL)) |
| Mass storage | 4 Mbyte |
| Retentive mass storage | 96 kByte (NVRAM) |
| Number of data blocks | depends on mass storage |
| Number of timers, counters | depends on mass storage |
| Number of control tasks | 16 |
| Realtime clock | Integrated (battery backup) |

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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 |

ETIM

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

UNSPSC

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|---------------|----------|
| 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 / cULus Listed

Ex Approvals

Approvals submitted

Approval details

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| UL Listed  |
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Approvals

