


ILC 370 ETH 2TX-IB

Order No.: 2876999

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2876999>

Inline Controller with Ethernet interfaces for coupling to other controllers and systems, with programming options according to IEC 61131-3, complete with connector and labeling field.

Commercial data

| | |
|--------------------------|--|
| GTIN (EAN) |  4 046356 048323 |
| Note | Made-to-order |
| sales group | K221 |
| Pack | 1 pcs. |
| Customs tariff | 85371091 |
| Catalog page information | Page 29 (AX-2009) |

Product notes

WEEE/RoHS-compliant since:
12/08/2009



<http://www.download.phoenixcontact.com>
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Product description

With the ILC 370 ETH 2TX-IB, 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 IO controllers, and with or without GL approval.

Technical data

Control system

| | |
|------------------|-------------------------|
| Programming tool | PC WORX 3 |
| Diagnostics tool | DIAG+ from version 1.14 |

Mechanical design

| | |
|----------------------|----------|
| Height | 140.5 mm |
| Width | 182 mm |
| Depth | 71.5 mm |
| Weight | 440 g |
| Degree of protection | IP20 |

Data interfaces

| | |
|--------------------|---|
| Interface | INTERBUS local bus (master) |
| Type of connection | Inline data jumper |
| Interface | Parameterization/programming/diagnostics |
| Type of connection | RS-232-C, 6-pos. MINI-DIN female connector (PS/2), Ethernet 10/100 (RJ45) |
| Interface | INTERBUS (Slave) |
| Type of connection | D-SUB-9 female/D-SUB-9 male |
| Interface | Ethernet 10Base-T/100Base-TX |
| Type of connection | RJ45 female connector |
| Transmission speed | 10/100 MBit/s |

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 % |

INTERBUS data

| | |
|---|--------------|
| Type | Master/Slave |
| Number of Inline terminals which can be connected | 63 |

| | |
|---|---|
| Note on the number of Inline terminals which can be connected | observe current consumption |
| Number of devices with parameter channel (PCP) | max. 62 |
| Number of supported devices | max. 512 (in total, of which 254 are remote bus devices/bus segments) |
| Number of I/O nodes | max. 8192 |
| Battery | Integrated (rechargeable battery buffered) |
| Number of control tasks | 16 |
| Number of timers, counters | (depends on data memory) |
| Number of data blocks | (depends on data memory) |
| Data memory | 4 Mbyte |
| Retentive data memory | 96 kByte (NVRAM) |

IEC 61131 runtime system

| | |
|----------------------------|----------------------------------|
| Programming tool | PC WORX 3 |
| Processing speed | 0.3 ms (1 K mix instructions) |
| | 7 μ s (1 K bit instructions) |
| Data memory | 4 Mbyte |
| Retentive data memory | 96 kByte (NVRAM) |
| Number of data blocks | (depends on data memory) |
| Number of timers, counters | (depends on data memory) |
| Number of control tasks | 16 |
| Realtime clock | Integrated (battery backup) |

Inline potential routing

| | |
|--------------------------------|---|
| Communications power U_L | 7.5 V DC \pm 5% |
| Power supply at U_L | 2 A DC (observe derating) |
| Main circuit supply U_M | 24 V DC -20% / +20% (in accordance with EN 61131-2) |
| Power supply at U_M | max. 8 A |
| Segment supply voltage U_S | 24 V DC -20% / +20% (in accordance with EN 61131-2) |
| Power supply at U_S | max. 8 A |
| Current consumption from U_S | max. 5 A |
| I/O supply voltage U_{ANA} | 24 V DC -15% / +20% |
| Power supply at U_{ANA} | 0.5 A DC (observe derating) |

Certificates / Approvals



Certification CUL, UL

Accessories

| Item | Designation | Description |
|---------------------|---------------------------|---|
| Memory | | |
| 2988780 | CF FLASH 256MB | Program and configuration memory, plug-in, 256 MB |
| 2988793 | CF FLASH 256MB APPLIC A | Program and configuration memory, plug-in, 256 MB with license key for function block libraries, e.g., for SNMP, SQL, wireless, motion functions, etc. |
| 2700549 | CF FLASH 256MB PDPI BASIC | Program and configuration memory, plug-in, 256 MB with license key for licensing PDPI controller blocks. |
| 2700550 | CF FLASH 256MB PDPI PRO | Program and configuration memory, plug-in, 256 MB with license key for licensing PDPI controller blocks. |
| Plug/Adapter | | |
| 2730611 | PRG CAB MINI DIN | Connection cable, to connect Remote Field Controllers to a PC (RS-232) for PC WORX, 3 m in length |
| Software | | |
| 2985945 | AX OPC SERVER | AX OPC SERVER, communication interface for OPC-capable visualization with PC WORX-based controls. |
| 2985275 | PC WORX BASIC LIC | Software package for PC-based automation solutions, PC WORX BASIC license, contains all 5 IEC languages, without MSFC compiler, max. 256 byte input and output data, version-specific license key |
| 2985725 | PC WORX DEMO | Software package for PC-based automation solutions, PC WORX DEMO, contains all 5 IEC languages, with MSFC compiler, max. 16 bytes input and output data |
| 2985385 | PC WORX PRO LIC | Software package for PC-based automation solutions, PC WORX PRO license, contains all 5 IEC languages, with MSFC compiler, max. 128 kB input and output data, version-specific license key |

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