PHŒNIX CONTACT

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.

Why buy this product

☑ Engineering with PC Worx (IEC 61131-3)

☑ Integrated Ethernet interface

☑ Numerous protocols supported such as: HTTP, FTP, SNTP, 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 PCE
GTIN	4 046356 042765
Weight per Piece (excluding packing)	779.6 GRM
Weight per piece (including packing)	779.6 GRM
Custom tariff number	85371091
Country of origin	Germany
Sales Key	O1 - Automatation Systems

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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 % (no condensation)
Permissible humidity (storage/transport)	10 % ... 95 % (no condensation)
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)	5 g, in accordance with 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

Power supply

Typical current consumption	250 mA (no local bus device connected during idling, bus inactive)
Supply voltage	24 V DC ±5 %
Supply voltage range	20.4 V DC ... 30 V DC
Residual ripple	± 5 %

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 branch terminals with remote bus branch	15
Module classification	INTERBUS master

Direct I/Os

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

IEC 61131 runtime system

Programming tool	PC WORX
Processing speed	0.7 ms (1 K mix instructions)
	11 µs (1 K bit instructions)
Program memory	typ. 750 kByte (64 K instructions (IL))
Mass storage	1.5 Mbyte
Retentive mass storage	64 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)

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 2.0	EC000236
ETIM 3.0	EC000236
ETIM 4.0	EC000236
ETIM 5.0	EC000236

UNSPSC

UNSPSC 6.01	43172015

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Classifications

UNSPSC

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 / cULus Listed

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Ex Approvals

Approvals submitted

Approval details

UL Listed

cUL Listed

UL Listed

cUL Listed

cULus Listed

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Accessories

Accessories

Device parameterization

Software - AX+ BASIC - 2985068

Software CD for FDT container for integrating device DTMs (free download)

Software - AX DTM LIB - 2988065

DTM library

Drivers and interfaces

Software - AX OPC SERVER - 2985945

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

Parameterization memory

Memory - CF FLASH 256MB - 2988780

Program and configuration memory, plug-in, 256 MB

Memory - CF FLASH 256MB APPLIC A - 2988793

Program and configuration memory, plug-in, 256 MB with license key for function block libraries, e.g., for SNMP, SQL, wireless, motion functions, etc.

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Accessories

Memory - CF FLASH 256MB PDPI BASIC - 2700549

Program and configuration memory, plug-in, 256 MB with license key for licensing the PDPI - BASIC function block for precise multi-channel controllers with self-optimization, additional functions: e.g., for heating and cooling functions or hydraulic movements.

Memory - CF FLASH 256MB PDPI PRO - 2700550

Program and configuration memory, plug-in, 256 MB with license key for licensing the PDPI - PRO function block for precise multi-channel controllers with self-optimization, additional functions: e.g., for setpoint processing, for heating and cooling functions.

Memory - CF FLASH 2GB - 2701185

Program and configuration memory, plug-in, 2 Gbytes.

Memory - CF FLASH 2GB APPLIC A - 2701189

Program and configuration memory, plug-in, 2 Gbytes with license key for function block libraries, e.g., for: SNMP, SQL, wireless, motion functions, etc.

Programming

Software - PC WORX DEMO - 2985725

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

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Accessories

Software - PC WORX BASIC LIC - 2985275

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

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Software - PC WORX PRO LIC - 2985385

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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Programming cable

Connecting cable - PRG CAB MINI DIN - 2730611

Connecting cable, for connecting the controller to a PC (RS-232) for PC Worx, 3 m in length

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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. With a simple selection, you can filter out all of the devices except those from Phoenix Contact.

Necessary add-on products

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Program and configuration memory, plug-in, 256 MB

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Drawings

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Dimensioned drawing

140,5

71,5

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