PHŒNIX CONTACT

Controller - ILC 150 ETH - 2985330

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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 150 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 possible field of application of Inline Controllers right down to smaller 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.

Product Features

☑ Free engineering with PC Worx Express (IEC 61131-3)

☑ Numerous protocols supported such as: HTTP, FTP, SNTP, SNMP, SMTP, SQL, MySQL, etc.

☑ Complete fieldbus master (4096 I/O points)

☑ Flash file system

☑ FTP server

☑ Integrated web server for visualization with WebVisit

Ethernet

INTERBUS

Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	345.0 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)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °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

Power supply

Typical current consumption	210 mA
Max. current consumption	870 mA (370 mA communications power + 500 mA analog voltage supply)

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Technical data

Power supply

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC
Residual ripple	± 5 %
Verlustleistung	max. 5 W

Fieldbus function

Amount of process data	max. 4096 Bit (INTERBUS)
Number of supported devices	max. 128
Number of local bus devices that can be connected	max. 63 (observe current consumption)
Number of devices with parameter channel	max. 16
Number of branch terminals with remote bus branch	max. 3
Module classification	INTERBUS master

Direct I/Os

Input name	Digital inputs
Number of inputs	8
Connection method	Inline potential distributor
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 / PC WORX EXPRESS
Processing speed	1.5 ms (1 K mix instructions)
	90 µs (1 K bit instructions)
Program memory	typ. 256 kByte (21 K instructions (IL))
Mass storage	256 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

Classifications

eCl@ss

eCl@ss 4.0	27250203
eCl@ss 4.1	27240601

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Classifications

eCl@ss

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
UNSPSC 7.0901	43201404
UNSPSC 11	43172018
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

Approvals

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

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Ex Approvals

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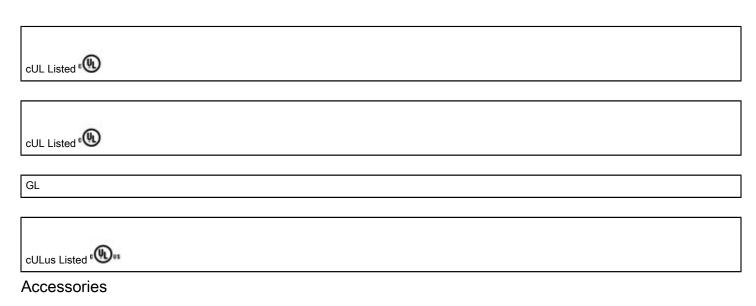

Approvals submitted

Approval details

LR

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Approvals

GL

BV

DNV

ABS

RINA

GL-SW

BSH

LR

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Approvals

cUL Listed

cUL Listed

GL

cULus Listed

Accessories

Accessories

Device parameterization

Software - AX+ BASIC - 2985068

Software-CD für FDT-Container zur Integration von Geräte-DTM (kostenlos zum Download)

Software - AX DTM LIB - 2988065

DTM library

Drivers and interfaces

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Accessories

Software - AX OPC SERVER - 2985945

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

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.

This product is free and only available from the "Downloads" tab.

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