PHŒNIX CONTACT

Controller - ILC 170 ETH 2TX - 2916532

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Inline Controller with Ethernet 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 170 ETH 2TX, 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 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.

Your advantages

- ☑ Numerous protocols supported such as: HTTP, FTP, SNTP, SNMP, SMTP, SQL, MySQL, etc.
- ☑ Free engineering with PC Worx Express (IEC 61131-3)
- ☑ Complete INTERBUS master (4096 I/O points)
- ☑ FTP server
- ☑ Integrated web server for visualization with WebVisit
- ☑ Flash file system

RoHS **Ethernet** **INTERBUS**

Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 174107
GTIN	4046356174107

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area

Dimensions

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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 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

Control system

Engineering tool	PC WORX
	PC WORX EXPRESS
Diagnostics tool	DIAG+
Configuration tool	Config+ Version 1.01 or later

Mechanical design

Weight	295 g
Diagnostics display	No
Controller redundancy	No

Data interfaces

Interface	INTERBUS local bus (master)
Number	1
Connection method	Inline data jumper
Transmission speed	500 kBaud / 2 MBaud (can be switched)
Interface	Parameterization/operation/diagnostics
Number	1
Connection method	6-pos. MINI DIN socket (PS/2)
Transmission speed	max. 115.2 kbps
Interface	Ethernet 10Base-T/100Base-TX
Number	2
Connection method	RJ45 socket
Transmission speed	10/100 Mbps

PROFINET

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 %
Power dissipation	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. 24
Number of supported branch terminals with remote bus branch	max. 3

Direct I/Os

Input name	Digital inputs
Number of inputs	8
Connection method	Inline potential distributor
Connection technology	2, 3, 4-wire
Output name	Digital outputs
Number of outputs	4
Connection method	Spring-cage connection
Connection technology	2, 3, 4-wire
Maximum output current per channel	500 mA

IEC 61131 runtime system

Engineering tool	PC WORX
	PC WORX EXPRESS
Program memory	512 kByte
Mass storage	512 kByte
Retentive mass storage	48 kByte (NVRAM)
Number of control tasks	8
Realtime clock	Yes

Standards and Regulations

Vibration (storage/transport)	5g
Shock	25g, Criterion 1, according to IEC 60068-2-27
Vibration (operation)	5g

Environmental Product Compliance

REACh SVHC	1,2-dimethoxyethane,ethylene glycol dimethyl ether (EGDME) 110-71-4
	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50

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Environmental Product Compliance

	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Approvals

Approvals

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DNV GL / LR / UL Listed / cUL Listed / ABS / EAC / DNV GL / BV / EAC / RINA / BSH / BV / LR / ABS / BSH / RINA / UL Listed / cUL Listed / EAC / EAC

Ex Approvals

UL Listed / cUL Listed / UL Listed / cUL Listed

Approval details

DNV GL		http://exchange.dnv.com/tari/	A-13984

LR	Lloyd's Register	http://www.lr.org/en	08/20033

UL Listed	(UL) LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324

cUL Listed	c(UL) LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324

ABS		http://www.eagle.org/eagleExternalPortalWEB/	17-HG1621871-PDA

EAC	EHC		RU *-DE.A*30.B.00238

DNV GL		http://exchange.dnv.com/tari/	A-13984

BV	BUREAU VERITAS	http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials	20989/B2_BV

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Approvals

EAC			RU *- DE.A*30.B.00238
RINA		http://www.rina.org/en	ELE183315XG
BSH		http://www.bsh.de/de/index.jsp	658
BV		http://www.veristar.com/portal/veristarinfo/generalinfo/ approved/approvedProducts/equipmentAndMaterials	20989/B2_BV
LR		http://www.lr.org/en	08/20033
ABS		http://www.eagle.org/eagleExternalPortalWEB/	17-HG1621871-PDA
BSH		http://www.bsh.de/de/index.jsp	658
RINA		http://www.rina.org/en	ELE183315XG
UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
EAC			EAC-Zulassung
EAC			EAC-Zulassung

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