ILC 170 ETH 2TX - Controller

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

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

Commercial data

Item number	2916532
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	DRA
Product key	DRAAAA
GTIN	4046356174107
Weight per piece (including packing)	378.4 g
Weight per piece (excluding packing)	356.1 g
Customs tariff number	85371091
Country of origin	DE

Technical data

Product properties

Product type	Controller
Product family	Inline
Type	modular

Display

Diagnostics display	no

System properties

Retentive data storage	48 kByte (NVRAM)

IEC 61131 runtime system

Program memory	512 kByte
Data storage system	512 kByte
Number of control tasks	8

INTERBUS-Master

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

PROFINET

Device function	PROFINET device

Function

Diagnostics display	no
Redundancy function	no

System requirements

Engineering tool	PC Worx
	PC Worx Express
Configuration tool	Config+ Version 1.01 or later
Diagnostics tool	DIAG+
Runtime system	eCLR
Application interface	OPC

Electrical properties

Transmission medium	Copper
Maximum power dissipation for nominal condition	max. 5 W

Supply

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC

Residual ripple	± 5 %
Max. current consumption	870 mA (370 mA communications power + 500 mA analog voltage supply)
Typical current consumption	210 mA

Real-time clock

Realtime clock	yes
Description realtime clock	integrated (rechargeable battery buffered)

Potentials

Supply voltage	7.5 V DC ±5 %

Potentials

Supply voltage	24 V DC -15 % / +20 %

Potentials

Supply voltage	24 V DC -15 % / +20 % (in accordance with EN 61131-2)
Current draw	8 A DC

Potentials

Supply voltage	24 V DC -15 % / +20 % (in accordance with EN 61131-2)
Current draw	max. 8 A DC

Input data

Digital:

Input name	Digital inputs
Number of inputs	8
Connection method	Inline potential distributor
Connection technology	2-, 3-, 4-conductor

Output data

Digital:

Output name	Digital outputs
Connection method	Spring-cage connection
Connection technology	2-, 3-, 4-conductor
Number of outputs	4
Maximum output current per channel	500 mA

Connection data

Inline connector

Connection method	Spring-cage connection
Conductor cross-section, rigid	0.08 mm² ... 1.5 mm²
Conductor cross-section, flexible	0.08 mm² ... 1.5 mm²
Conductor cross-section AWG	28 ... 16

Interfaces

INTERBUS local bus (master)

Number of interfaces	1
Connection method	Inline data jumper
Transmission speed	500 kBaud / 2 MBaud (can be switched)

Parameterization/operation/diagnostics

Bus system	RS-232
Number of interfaces	1
Connection method	6-pos. MINI DIN socket (PS/2)
Transmission speed	max. 115.2 kbps
Transmission physics	Copper
No. of channels	1

Ethernet 10Base-T/100Base-TX

Bus system	RJ45
Number of interfaces	2
Connection method	RJ45 jack
Transmission speed	10/100 Mbps
No. of channels	2

Dimensions

Width	80 mm
Height	119.8 mm
Depth	71.5 mm

Material specifications

Color	green (RAL 6021)

Environmental and real-life conditions

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

Mounting

Mounting type	DIN rail mounting

Classifications

UNSPSC

UNSPSC 21.0	39122114

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)

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