

# ILC 190 ETH 2TX - Controller



2700527

<https://www.phoenixcontact.com/us/products/2700527>

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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.

## Your advantages

- Flash file system
- Integrated web server for visualization with WebVisit
- 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	2700527
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR10
Product key	DRAAAA
GTIN	4046356569422
Weight per piece (including packing)	365.9 g
Weight per piece (excluding packing)	285 g
Customs tariff number	85371091
Country of origin	DE

## Technical data

### Notes

#### Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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### Product properties

Product type	Controller
Product family	Inline
Type	modular

#### Display

Diagnostics display	no
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### System properties

Retentive data storage	48 kByte (NVRAM)
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#### IEC 61131 runtime system

Program memory	1 Mbyte
Data storage system	1 Mbyte
Number of control tasks	8

#### INTERBUS-Master

Amount of process data	max. 4096 bit (INTERBUS)
Amount of process data (INTERBUS input/output data max.)	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
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#### Function

Diagnostics display	no
Redundancy function	no

#### System requirements

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

### Electrical properties

Transmission medium	Copper
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Maximum power dissipation for nominal condition	max. 5 W
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## 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 %
Power supply	max. 0.8 A DC (observe derating)

## Potentials

Supply voltage	24 V DC -15 % / +20 %
Power supply	0.5 A DC (observe derating)

## Potentials

Supply voltage	24 V DC -15 % / +20 % (in accordance with EN 61131-2)
Power supply	max. 8 A DC (sum of $U_M + U_S$ )
Current draw	max. 8 A DC

## Potentials

Supply voltage	24 V DC -15 % / +20 % (in accordance with EN 61131-2)
Power supply	max. 8 A (sum of $U_M + U_S$ )
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 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.08 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section AWG	28 ... 16

## Interfaces

### INTERBUS local bus (master)

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

### Parameterization/operation/diagnostics

Bus system	RS-232
Connection method	RS-232-C, 6-pos. MINI-DIN socket (PS/2), Ethernet 10/100 (RJ45)
Transmission speed	max. 115.2 kbps
Transmission physics	Copper
No. of channels	1

### Ethernet 10Base-T/100Base-TX

Bus system	RJ45
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)
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## 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

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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
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## Environmental product compliance

### 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.)	No substance above 0.1 wt%
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