

# ILC 390 PN 2TX-IB - Controller



2985314

<https://www.phoenixcontact.com/us/products/2985314>

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Inline Controller with PROFINET interfaces 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
- Complete fieldbus master (8192 I/O points)
- Integrated Ethernet interface
- Numerous protocols supported such as: HTTP, FTP, SNTP, SNMP, SMTP, SQL, MySQL, etc.
- Integrated PROFINET controller and PROFINET device
- Engineering with PC Worx (IEC 61131-3)

## Commercial data

Item number	2985314
Packing unit	1 pc
Sales key	DR10
Product key	DRAAAC
GTIN	4046356077705
Weight per piece (including packing)	798.4 g
Weight per piece (excluding packing)	768.7 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
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### System properties

Retentive data storage	96 kByte (NVRAM)
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### IEC 61131 runtime system

Program memory	typ. 2 Mbyte
Data storage system	4 Mbyte
Number of control tasks	16

### INTERBUS-Master

Amount of process data	max. 8192 bit (INTERBUS-Master)
Amount of process data (INTERBUS input/output data max.)	max. 8192 bit (INTERBUS-Master)
Amount of process data	max. 512 bit (INTERBUS-Slave)
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	max. 63 (observe current consumption)
Number of devices with parameter channel	max. 62
Number of supported branch terminals with remote bus branch	max. 15

### PROFINET

Device function	PROFINET-Controller
Specification	Version 1.1
Update rate	min. 1 ms

### Function

Diagnostics display	no
Redundancy function	yes
Note on redundancy function	applicative system redundancy possible
Safety function	no

### Programming data

ID code (dec.)	3
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### Functionality

Programming languages supported	Programming in acc. with IEC 61131-3
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### System requirements

Diagnostics tool	DIAG+ from version 1.14
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Application interface	Device driver interface via TCP/IP sockets
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## Electrical properties

Transmission medium	Copper
Maximum power dissipation for nominal condition	max. 6 W

### Supply

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

### Real-time clock

Realtime clock	Integrated (battery backup)
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### Potentials

Supply voltage	7.5 V DC $\pm 5\%$
Power supply	2 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
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
Current draw	max. 5 A

## Input data

### Digital:

Input name	Digital inputs
Description of the input	Eight fast inputs, interrupt input
Number of inputs	12
Connection method	Inline potential distributor
Connection technology	2-, 3-, 4-conductor

## Output data

### Digital:

Output name	Digital outputs
Connection method	Spring-cage connection

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Connection technology	2-, 3-, 4-conductor
Number of outputs	4
Output voltage	24 V DC
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

Web server	no
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### 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

### INTERBUS local bus (master)

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

### Parameterization/programming/diagnostics

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

### INTERBUS (Slave)

Number of interfaces	1
Connection method	D-SUB-9 female/D-SUB-9 male

## Dimensions

Width	182 mm
Height	140.5 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 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)
Shock	25g, Criterion 1, according to IEC 60068-2-27
Vibration (operation)	5g, accordance to IEC 60068-2-6
Air pressure (operation)	70 kPa ... 106 kPa (2000 m above mean 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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## Classifications

### UNSPSC

UNSPSC 21.0	32151700
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 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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