


# ILC 390 PN 2TX-IB

Order No.: 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 connector and labeling field.

Commercial data	
GTIN (EAN)	 4 046356 077705
sales group	K221
Pack	1 pcs.
Customs tariff	85371091
Catalog page information	Page 29 (AX-2009)

### Product notes

WEEE/RoHS-compliant since:  
12/09/2009



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### Product description

With the ILC 390 PN 2TX-IB, the highly modular Inline Controller range from Phoenix Contact has been extended to include a high-performance PROFINET IO controller. This controller can be used to extend the field of application of Inline Controllers through to medium-sized 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 PROFINET 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 IO controllers, and with or without GL approval.

### Technical data

#### Control system

Programming tool	PC WORX
Diagnostics tool	DIAG+ from version 1.14

#### Mechanical design

Height	140.5 mm
Width	182 mm
Depth	71.5 mm
Weight	440 g
Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 75 °C
Permissible humidity (operation)	5 % ... 90 % (no condensation)
Permissible humidity (storage/transport)	5 % ... 90 % (no condensation)

#### Data interfaces

Interface	INTERBUS local bus (master)
Type of connection	Inline data jumper
Interface	Parameterization/programming/diagnostics
Type of connection	RS-232-C, 6-pos. MINI-DIN female connector (PS/2), Ethernet 10/100 (RJ45)
Interface	INTERBUS (Slave)
Type of connection	D-SUB-9 female/D-SUB-9 male
Interface	Ethernet 10Base-T/100Base-TX
Type of connection	RJ45 female connector
Transmission speed	10/100 MBit/s

#### PROFINET IO

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

**Power supply**

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

**INTERBUS data**

Type	Master/Slave
Number of Inline terminals which can be connected	63
Note on the number of Inline terminals which can be connected	observe current consumption
Number of devices with parameter channel (PCP)	max. 62
Number of supported devices	max. 512 (in total, of which 254 are remote bus devices/bus segments)
Number of I/O nodes	max. 8192
Battery	Integrated (rechargeable battery buffered)
Number of control tasks	16
Number of timers, counters	(depends on data memory)
Number of data blocks	(depends on data memory)
Data memory	4 Mbyte
Retentive data memory	96 kByte (NVRAM)

**IEC 61131 runtime system**

Programming tool	PC WORX
Processing speed	0.2 ms (1 K mix instructions) 6 $\mu$ s (1 K bit instructions)
Data memory	4 Mbyte
Retentive data memory	96 kByte (NVRAM)
Number of data blocks	(depends on data memory)
Number of timers, counters	(depends on data memory)
Number of control tasks	16
Realtime clock	Integrated (battery backup)

**Inline potential routing**

Communications power $U_L$	7.5 V DC $\pm 5\%$
Power supply at $U_L$	2 A DC (observe derating)

Main circuit supply $U_M$	24 V DC -20% / +20% (in accordance with EN 61131-2)
Power supply at $U_M$	max. 8 A
Segment supply voltage $U_S$	24 V DC -20% / +20% (in accordance with EN 61131-2)
Power supply at $U_S$	max. 8 A
Current consumption from $U_S$	max. 5 A
I/O supply voltage $U_{ANA}$	24 V DC -15% / +20%
Power supply at $U_{ANA}$	0.5 A DC (observe derating)

### Certificates / Approvals



Certification CUL, UL

### Accessories

Item	Designation	Description
<b>Memory</b>		
2988780	CF FLASH 256MB	Program and configuration memory, plug-in, 256 MB
2988793	CF FLASH 256MB APPLIC A	Program and configuration memory, plug-in, 256 MB with license key for function block libraries, e.g., for SNMP, SQL, wireless, motion functions, etc.
2700549	CF FLASH 256MB PDPI BASIC	Program and configuration memory, plug-in, 256 MB with license key for licensing PDPI controller blocks.
2700550	CF FLASH 256MB PDPI PRO	Program and configuration memory, plug-in, 256 MB with license key for licensing PDPI controller blocks.
<b>Plug/Adapter</b>		
2730611	PRG CAB MINI DIN	Connection cable, to connect Remote Field Controllers to a PC (RS-232) for PC WORX, 3 m in length
<b>Software</b>		
2985945	AX OPC SERVER	AX OPC SERVER, communication interface for OPC-capable visualization with PC WORX-based controls.
2985275	PC WORX BASIC LIC	Software package for PC-based automation solutions, PC WORX BASIC license, contains all 5 IEC languages, without MSFC compiler, max. 256 byte input and output data, version-specific license key

2985725	PC WORX DEMO	Software package for PC-based automation solutions, PC WORX DEMO, contains all 5 IEC languages, with MSFC compiler, max. 16 bytes input and output data
2985385	PC WORX PRO LIC	Software package for PC-based automation solutions, PC WORX PRO license, contains all 5 IEC languages, with MSFC compiler, max. 128 kB input and output data, version-specific license key

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