

Controller - ILC 191 ME/AN - 2700074

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Inline controller with integrated pulse/direction/PWM interface, RS-485/RS-422, analog inputs (0 ... 10 V), and analog outputs (0 ... 10 V), with programming options according to IEC 61131-3

Product description


With the ILC 191 ME/AN, the highly modular Inline controller range from Phoenix Contact has been extended to include a powerful compact controller. The controller already has 8 digital inputs and 4 outputs, a two-channel pulse/direction/PWM interface, an integrated RS-232 interface and RS-485/RS-422 interface, and a two-channel analog output and input (0 - 10 V). With direct integration into 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.

Why buy this product

- ✓ Numerous protocols supported such as: HTTP, FTP, SNMP, SMTP, SQL, MySQL, etc.
- ✓ Free engineering with PC Worx Express (IEC 61131-3)
- ✓ Integrated pulse/direction/PWM interface
- ✓ Integrated RS-485/RS-422 interface
- ✓ Integrated analog I/Os
- ✓ Web server, FTP server, and Flash file system



Key commercial data

Packing unit	1 pc
GTIN	 4 046356 479097
Weight per Piece (excluding packing)	450.0 g
Weight per piece (including packing)	606.5 g
Custom tariff number	85371091
Country of origin	Germany
Sales Key	O1 - Automatisation Systems

Technical data

Note

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Technical data

Note

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

Width	164 mm
Height	136.8 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 mean sea level)
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3000 m above mean sea level)
Shock	25g, Criterion 1, according to IEC 60068-2-27
Vibration (operation)	5g

Control system

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

Mechanical design

Weight	285 g
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Data interfaces

Interface	INTERBUS local bus (master)
Connection method	Inline data jumper
Transmission speed	500 kBaud / 2 MBaud umschaltbar
Interface	Parameterization/operation/diagnostics
Connection method	RS-232-C, 6-pos. MINI-DIN socket (PS/2), Ethernet 10/100 (RJ45)
Transmission speed	max. 115,2 kBit/s
Connection method	4-pos. for full duplex 2-pos. for half duplex
Interface	Ethernet 10Base-T/100Base-TX
Connection method	RJ45 socket
Transmission speed	10/100 MBit/s

PROFINET

Device function	PROFINET device
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Power supply

Typical current consumption	310 mA
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Power supply

Max. current consumption	960 mA (460 mA + 500 mA analog power supply)
Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC
Residual ripple	± 5 %
Power dissipation	<p></p>

Fieldbus function

Amount of process data	max. 4096 Bit (INTERBUS)
	max. 32768 Bit (internal Modbus Client)
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 branch terminals with remote bus branch	max. 3
Module classification	INTERBUS master
Processing speed	1.3 ms

Direct I/Os

Input name	Digital inputs
Number of inputs	8
Connection method	Inline potential distributor
Description of the input	EN 61131-2 type 1 NPN/PNP
Output name	Digital outputs
Number of outputs	4
Connection method	2, 3, 4-wire
Maximum output current per channel	500 mA
Number of pulse direction outputs	2 (can be used as an alternative to pulse width modulation)
Output voltage	5 V
Limit frequency	150 kHz
Number of inputs	2
Voltage input signal	0 V DC ... 10 V DC (Resolution: 11 bits)
Number of outputs	2
Voltage output signal	0 V DC ... 10 V DC (Resolution: 11 bits)

IEC 61131 runtime system

Programming tool	PC WORX / PC WORX EXPRESS
Processing speed	1.3 ms (1 K mix instructions)
	90 µs (1 K bit instructions)
Program memory	1 Mbyte (86 K instructions (IL))
Mass storage	1 Mbyte
Retentive mass storage	48 kByte (NVRAM)
Number of data blocks	depends on mass storage
Number of timers, counters	depends on mass storage

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IEC 61131 runtime system

Number of control tasks	8
Realtime clock	Yes

Classifications

eCl@ss

eCl@ss 4.0	27250203
eCl@ss 4.1	27240601
eCl@ss 5.0	27242215
eCl@ss 5.1	27242207
eCl@ss 6.0	27242207
eCl@ss 7.0	27242207

ETIM

ETIM 2.0	EC000236
ETIM 3.0	EC000236
ETIM 4.0	EC000236
ETIM 5.0	EC000236

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172018
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

Approvals

Approvals

Approvals

UL Listed / cUL Listed / UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approvals submitted

Approval details

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Approvals

UL Listed 

cUL Listed 

UL Listed 

cUL Listed 

cULus Listed 

Accessories

Accessories

Drivers and interfaces

Software - AX OPC SERVER - 2985945



AX OPC SERVER, communication interface for OPC-capable visualization with PC WORX-based controls.

Parameterization memory

Memory - SD FLASH 256MB - 2988120



Program and configuration memory, plug-in, 256 MB

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Accessories

Memory - SD FLASH 256MB APPLIC A - 2988816



Program and configuration memory, plug-in, 256 Mbytes with license key for function block libraries, e.g., for: SNMP, SQL, wireless, motion functions, etc.

Memory - SD FLASH 256MB PDPI PRO - 2700552



Program and configuration memory, plug-in, 256 MB with license key for licensing the PDPI - PRO function block for precise multi-channel controllers with self-optimization, additional functions: e.g., for setpoint processing, for heating and cooling functions.

Memory - SD FLASH 256MB PDPI BASIC - 2700551



Program and configuration memory, plug-in, 256 MB with license key for licensing the PDPI - BASIC function block for precise multi-channel controllers with self-optimization, additional functions: e.g., for heating and cooling functions or hydraulic movements.

Memory - SD FLASH 512MB - 2988146



Program and configuration memory, plug-in, 512 Mbyte.

Memory - SD FLASH 512MB APPLIC A - 2701799



Program and configuration memory, plug-in, 512 MB with license key for functional block libraries, e.g., for: SNMP, SQL, wireless, motion functions, etc.

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Accessories

Memory - SD FLASH 512MB PDPI BASIC - 2701800



Program and configuration memory, plug-in, 512 MB with license key for licensing the PDPI - BASIC functional block for precise multi-channel controllers with self-optimization, e.g., for heating and cooling functions or hydraulic movements.

Memory - SD FLASH 512MB PDPI PRO - 2701801



Program and configuration memory, plug-in, 512 MB with license key for licensing the PDPI - PRO functional block for precise multi-channel controllers with self-optimization, additional functions: e.g., for setpoint processing, for heating and cooling functions.

Memory - SD FLASH 2GB - 2988162



Program and configuration memory

Memory - SD FLASH 2GB APPLIC A - 2701190



Program and configuration memory, plug-in, 2 Gbytes with license key for function block libraries, e.g., for: SNMP, SQL, wireless, motion functions, etc.

Programming cable

Connecting cable - COM CAB MINI DIN - 2400127



Connecting cable, for connecting the controller to a PC (RS-232) for PC WORX with flow control, 3 m in length

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Accessories

Software - IPASSIGN - 2701094



IPAssign is an easy to use tool for setting the IP address of devices which rely on BOOTP. No installation or administrative rights are required to use IPAssign.

This product is free and only available from the "Downloads" tab.