PHŒNIX CONTACT

Controller - ILC 200 IB-PAC - 2862288

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Inline controller, complete with accessories (connector and labeling field). The controller is installed instead of a standard Inline bus coupler. It connects the station to the higher-level INTERBUS network in the same way as a bus coupler

Product Description

With the Inline Control CPU, the Inline station is transformed into a modular compact controller. The Inline controller is installed instead of the standard Inline bus terminal module. Thwe Inline Control connects the station to the higher-level network, just like a bus terminal module.
The integrated control functions can be programmed according to IEC 61131-3. These functions permit distributed and independent control of the Inline installation system. Fast inputs and outputs ensure short response times.
Use of the Inline controller or other Remote Field Controllers permits to set up pre-tested mechanical and electrical units that can be combined as desired to form a complete solution. By combining tested mechanical, electrical, I/O device and control program functional units, planning, installation and startup times are considerably reduced. Systems can also be expanded in a flexible manner by following this principle.
Programming with PC WORX
The Inline controller is programmed with PC WORX automation software. The programs are created using the international IEC 61131-3 standard. They are downloaded either over the INTERBUS interface or over the local RS-232 interface. Programs and configuration data are stored in the integrated flash memory in a non-volatile way. 8 Kbytes of non-volatile (NV)RAM is available for the remanent storage of variables and flags.

Your advantages

☑ Fast inputs for interrupt processing, event counting, and period measurement

☑ 24 V high-speed outputs for pulse width modulation

RoHS   INTERBUS

Key Commercial Data

Packing unit	1 pc
GTIN	4 017918 894696
GTIN	4017918894696
Weight per Piece (excluding packing)	523.700 g
Custom tariff number	85371091
Country of origin	Germany

Technical data

Note

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

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Technical data

Dimensions

Width	109.8 mm
Height	140.5 mm
Depth	71.5 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 75 °C
Permissible humidity (operation)	5 % ... 85 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 85 % (non-condensing)
Air pressure (operation)	70 kPa ... 108 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (up to 3500 m above sea level)
Shock	25g, Criterion 1, according to IEC 60068-2-27
Vibration (operation)	2g, criterion 1 according to IEC 60068-2-6

Control system

Engineering tool	PC WORX
Diagnostics tool	DIAG+ from version 1.14

Mechanical design

Weight	320 g
Diagnostics display	No
Controller redundancy	No

Data interfaces

Interface	INTERBUS local bus (master)
Number	1
Connection method	Inline data jumper
Transmission speed	500 kBaud / 2 MBaud (can be switched)
Interface	Higher-level INTERBUS remote bus (slave)
Number	1
Connection method	Inline shield connector
Transmission speed	500 kBaud
Interface	Parameterization/operation/diagnostics
Number	1
Connection method	6-pos. MINI DIN socket (PS/2)
Transmission speed	19200 Baud

Power supply

Power supply connection	8-pos. Inline connector
Typical current consumption	153 mA (no local bus device connected during idling, bus inactive)
Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC

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Power supply

Residual ripple	±5 %
Power dissipation	max. 3.25 W
Max. total permissible current consumption of all I/O terminal blocks	Communications power (7,5 V DC) ≤ 2 A DC
	Analog supply (24 V DC) ≤ 0.5 A

Fieldbus function

Amount of process data	max. 4096 Bit (INTERBUS-Master)
	160 Bit (INTERBUS-Slave)
Number of parameter data	max. 8 Byte (configurable)
Number of supported devices	max. 512
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
Program memory	typ. 384 kByte (32 K instructions (IL))

Direct I/Os

Input name	Digital inputs
Number of inputs	4
Connection method	Inline potential distributor
Connection technology	2, 3, 4-wire
Description of the input	Interrupt input, fast counter, pulse generator
Output name	Digital outputs
Number of outputs	2
Connection method	Spring-cage connection
Connection technology	2, 3, 4-wire
Maximum output current per channel	500 mA
Number of pulse direction outputs	2
Limit frequency	20 kHz
Number of inputs	4
Input frequency	40 kHz

IEC 61131 runtime system

Engineering tool	PC WORX
Program memory	typ. 384 kByte (32 K instructions (IL))
Mass storage	330 kByte
Retentive mass storage	8 kByte (NVRAM)
Number of control tasks	8

Standards and Regulations

Vibration (storage/transport)	2g, criterion 1 according to IEC 60068-2-6
Connection in acc. with standard	CUL
Shock	25g, Criterion 1, according to IEC 60068-2-27
Vibration (operation)	2g, criterion 1 according to IEC 60068-2-6

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Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Dimensional drawing
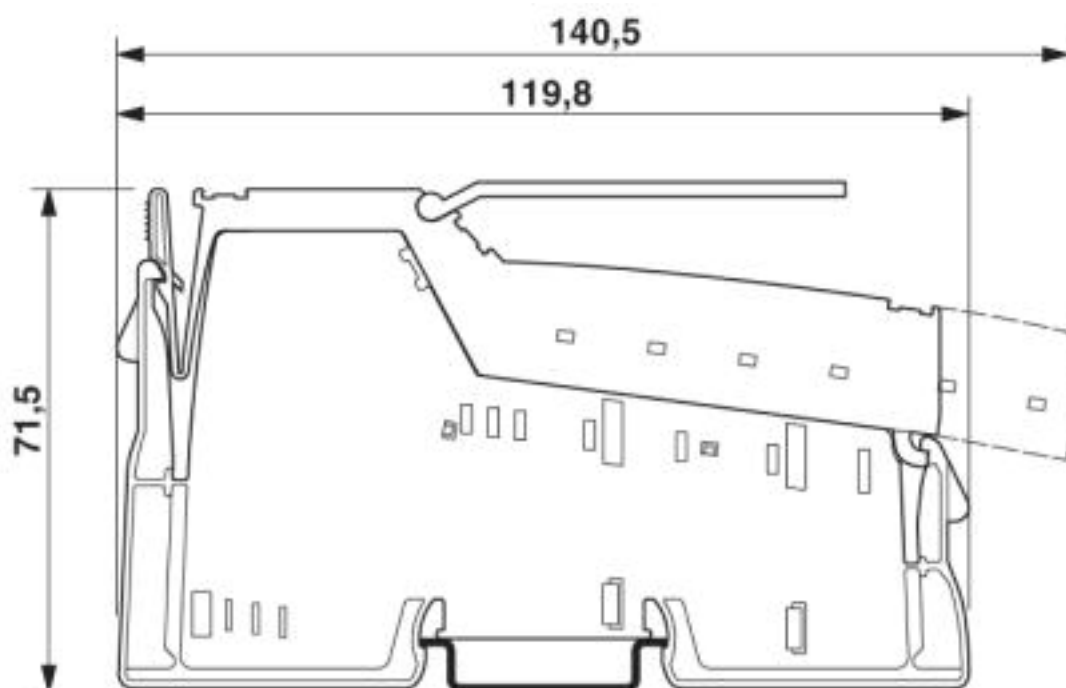
Classifications

eCl@ss

eCl@ss 4.0	27250200
eCl@ss 4.1	27240600
eCl@ss 5.0	27242700
eCl@ss 5.1	27242700
eCl@ss 6.0	27242200
eCl@ss 7.0	27242207
eCl@ss 8.0	27242207
eCl@ss 9.0	27242207

ETIM

ETIM 2.0	EC000236
ETIM 3.0	EC000236

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Classifications

ETIM

ETIM 4.0	EC000236
ETIM 5.0	EC000236
ETIM 6.0	EC000236
ETIM 7.0	EC000236

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172018
UNSPSC 12.01	43201404
UNSPSC 13.2	39122114
UNSPSC 18.0	39122114
UNSPSC 19.0	39122114
UNSPSC 20.0	39122114
UNSPSC 21.0	39122114

Approvals

Approvals

Approvals

UL Recognized / EAC

Ex Approvals

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324

EAC		RU *-DE.A*30.B.00238

Accessories

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Connector set

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Accessories

Connector set - ILC IB-PLSET - 2729622

Connector set, for Inline Remote Field Controller

Labeling panel

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm

Programming

Software - IBS OPC SERVER - 2729127

INTERBUS OPC server, communication interface between distributed INTERBUS and Ethernet networks and visualizations.

Software - PC WORX DEMO - 2985725

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

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Software - PC WORX BASIC LIC - 2985275

Software package for PC-based automation solutions, PC WORX BASIC license, contains all 5 IEC languages, without MSFC compiler, max. 2048 byte input and output data, version-specific license key

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Accessories

Software - PC WORX PRO LIC - 2985385

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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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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Software - PC WORX PRO-MSFC LIC - 2985495

Software package for PC-based automation solutions, PC WORX PRO-MSFC license, contains all 5 IEC languages and MSFC compiler, max. 64 Kbytes IN, 64 Kbytes OUT, version-specific license key

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