Extract from the online catalog

ILC 200 IB

Order No.: 2729800

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Inline controller, without connecting plug 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.

Commercial data	
GTIN (EAN)	4 017918 185992
sales group	K221
Pack	1 pcs.
Customs tariff	85371091
Catalog page information	Page 93 (AX-2005)

Product notes

WEEE/RoHS-compliant since: 01/07/2008

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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.

Technical data

Control system	
Programming tool	PC WORX 3
Diagnostics tool	DIAG+ from version 1.14
Mechanical design	
Height	119.8 mm
Width	109.8 mm
Depth	71.5 mm
Weight	320 g
Degree of protection	IP20
Data interfaces	
Interface	INTERBUS local bus (master)
Connection method	Inline data jumper
Interface	Higher-level INTERBUS remote bus (slave)
Connection method	Inline shield connector
Interface	Parameterization/operation/diagnostics
Connection method	RS-232-C, 6-pos. MINI-DIN female connector (PS/2), Inline shield connector
Interface	Integrated inputs /outputs
Connection method	2 Inline connectors
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
Residual ripple	±5%

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

INTERBUS data

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 PCP data	0, 1, 2 or 4 words PCP configurable
Number of supported devices	max. 512
Number of I/O nodes	max. 4096
Number of control tasks	8
Number of timers, counters	(depends on data memory)
Number of data blocks	(depends on data memory)
Data memory	330 kByte
Retentive data memory	8 kByte (NVRAM)

Local diagnostics

Monitored function	Higher-level network
Optical representation	LED
Name	BA, RC, RD, TR

IEC 61131 runtime system

Programming tool	PC WORX 3
	PC WORX 2
Processing speed	1.3 ms (1 K bit instructions)
Data memory	330 kByte
Retentive data memory	8 kByte (NVRAM)
Number of data blocks	(depends on data memory)
Number of timers, counters	(depends on data memory)
Number of control tasks	8

Inline potential routing

Communications power U_L	7.5 V DC ±5%
Power supply at U_L	2 A DC (observe derating)
Main circuit supply U_M	24 V DC -15% / +20% (in acc. with EN 61131-2)

Power supply at U_M	8 A (maximum)
Segment supply voltage U_S	24 V DC -15% / +20% (in acc. with EN 61131-2)
Power supply at U_S	8 A (maximum)
Current consumption from U_S	max. 2 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, GOST, UL

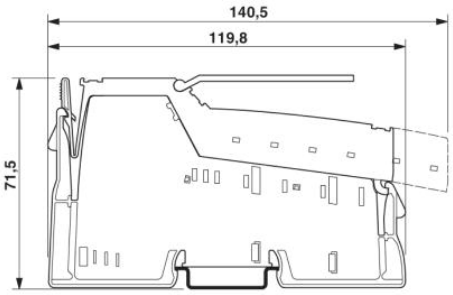
Accessories

Item	Designation	Description
Cable/conductor		
2730611	PRG CAB MINI DIN	Connection cable, to connect Remote Field Controllers to a PC (RS-232) for PC WORX, 3 m in length
Literature		
2729716	ILC 200 IB UM	User manual, German, for Inline Controllers, only available as a download.
2729729	ILC 200 IB UM E	User manual, English, for Inline Controllers, only available as a download.
Marking		
2727501	IB IL FIELD 2	Labeling field, width: 12.2 mm
Plug/Adapter		
2729622	ILC IB-PLSET	Connector set, for Inline Remote Field Controller
Software		
2729127	IBS OPC SERVER	INTERBUS OPC server, communication interface between distributed INTERBUS and Ethernet networks and visualizations.

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
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
2985495	PC WORX PRO-MSFC LIC	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

Diagrams/Drawings

Dimensioned drawing



FAQs

- **Is it admissible to use a bit function of a library as first command in a POE?**

  Every POE needs a defined entry data type. The command in the first line changes the data type according to the respective command. In the case of a function from a library, the data type cannot be recognized during compilation and the ANY_NUM data type will be assumed erroneously, whereas the function is actually an ANY_BIT function. When downloading such a program, the device firmware 4.6 recognizes the different data type and aborts the download. You can avoid this download abort by inserting a valid command or a dummy in the first line which does not have access to the bit function of the library, e.g.: DUMMY:=DUMMY.

- **Is it possible to implement a bus parameterization with isolated disconnection if an incorrect bus is connected?**

  Yes, it is possible. Before a bus start it however is necessary to activate the configuration frame. Activate configuration frame: Code: 0711 Parameter_Count: 0001 Frame_Reference: 0001 Start bus: Code: 0701

- **Is preprocessing possible in conjunction with PC WORX 3 on controller ILC 200 IB of PLC type "M68_32"?**

  No, pre-processing using PC WorX 3 is only possible on "IPC_32" PLCs.

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