

ILC 155 ETH

Order No.: 2988188

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Inline Controller with Ethernet interface 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)	
sales group	K221
Pack	1 pcs.
Customs tariff	85371091
Catalog page information	Page 25 (AX-2009)

Product notes

WEEE/RoHS-compliant since:
03/27/2008



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Product description

With the ILC 155 ETH, the highly modular Inline Controller range from Phoenix Contact has been extended to include a high-performance compact controller. This controller can be used to extend the possible field of application of Inline Controllers right down to smaller 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 Ethernet interface enables 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 5
Diagnostics tool	DIAG+ from version 1.14

Mechanical design

Height	119.8 mm
Width	80 mm
Depth	71.5 mm
Weight	285 g
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)
Vibration (operation)	5 g

Data interfaces

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

Power supply

Typical current consumption	210 mA
Max. current consumption	870 mA (370 mA communications power + 500 mA analog voltage supply)
Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC

Residual ripple	$\pm 5 \%$
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INTERBUS data

Type	INTERBUS master
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. 16
Number of supported devices	max. 128
Number of I/O nodes	max. 4096
Battery	Integrated (rechargeable battery buffered)
Number of control tasks	8
Number of timers, counters	(depends on data memory)
Number of data blocks	(depends on data memory)
Data memory	512 kByte
Retentive data memory	48 kByte (NVRAM)

IEC 61131 runtime system

Programming tool	PC WORX 5
Processing speed	1.5 ms (1 K mix instructions) 90 μ s (1 K bit instructions)
Data memory	512 kByte
Retentive data memory	48 kByte (NVRAM)
Number of data blocks	(depends on data memory)
Number of timers, counters	(depends on data memory)
Number of control tasks	8
Realtime clock	Yes

Inline potential routing

Communications power U_L	7.5 V DC $\pm 5\%$
Power supply at U_L	max. 0.8 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	max. 8 A DC (Sum of $U_M + U_S$)
Current consumption from U_M	max. 8 A DC
Segment supply voltage U_S	24 V DC -15% / +20% (in acc. with EN 61131-2)
Power supply at U_S	max. 8 A (Sum of $U_M + U_S$)

Current consumption from U_s	max. 8 A DC
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

Certification Ex: PxC-EX

Accessories

Item	Designation	Description
Memory		
2988120	SD FLASH 256MB	Program and configuration memory, plug-in, 256 MB
2988816	SD 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.
2700551	SD FLASH 256MB PDPI BASIC	Program and configuration memory, plug-in, 256 MB with license key for licensing PDPI controller blocks.
2700552	SD FLASH 256MB PDPI PRO	Program and configuration memory, plug-in, 256 MB with license key for licensing PDPI controller blocks.
Plug/Adapter		
2730611	PRG CAB MINI DIN	Connection cable, to connect Remote Field Controllers to a PC (RS-232) for PC WORX, 3 m in length
Software		
2985945	AX OPC SERVER	AX OPC SERVER, communication interface for OPC-capable visualization with PC WORX-based controls.

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