ILC 200 UNI-PAC - Controller

2862291

https://www.phoenixcontact.com/us/products/2862291

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

Inline controller with an INTERBUS local bus interface for the Inline installation system, with programming facility in acc. with IEC 61131-3, complete with accessories (connector and labeling field)

Product description

Inline controller
ILC 200 UNI transforms every Inline station into a distributed functional unit. ILC 200 UNI is installed below an Inline bus coupler (INTERBUS, PROFIBUS, DeviceNet™, Ethernet...). It then controls all the signals of the Inline station in every fieldbus system. This ensures maximum independence from the higher-level fieldbus system.
The functions which can be executed on ILC 200 UNI range from emergency operation functions in the event of a failure of the higher-level fieldbus, to redundancy functions and process data preprocessing, through to the distributed functional unit.
Plant engineering with its constantly changing customer requirements regarding both the fieldbus system and centralized control systems is the main field of application. ILC 200 UNI makes it possible to use identical functional units even when the higher-level fieldbus changes. This saves costs during plant engineering and at startup.
Direct fast inputs and outputs which can be used flexibly in different operating modes such as interrupt input, event counting and pulse generation ensure short response times on site.
All programming of the Inline controller is carried out with PC WORX, the automation software according to IEC 61131.

Your advantages

- Fast inputs for interrupt processing, event counting, and period measurement
- 24 V high-speed outputs for pulse width modulation

Commercial data

Item number	2862291
Packing unit	1 pc
Sales key	DR10
Product key	DRAAAB
GTIN	4017918909116
Weight per piece (including packing)	448.9 g
Weight per piece (excluding packing)	366.3 g
Customs tariff number	85371091
Country of origin	DE

Technical data

Product properties

Product type	Controller
Product family	Inline
Type	modular

Display

Diagnostics display	no

System properties

Retentive data storage	8 kByte (NVRAM)

IEC 61131 runtime system

Program memory	typ. 384 kByte (32 K instructions (IL))
Data storage system	330 kByte
Number of control tasks	8

INTERBUS-Master

Amount of process data	max. 4096 bit (INTERBUS-Master)
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

Function

Diagnostics display	no
Redundancy function	no

Local diagnostics

Monitored function	INTERBUS
Optical representation	LED: D, TR

Module

ID code (dec.)	205
ID code (hex)	CD
Required parameter data	1 Byte
Required configuration data	5 Byte

System requirements

Engineering tool	PC Worx
Diagnostics tool	DIAG+ from version 1.14

Electrical properties

Local diagnostics	INTERBUS LED: D, TR
	Power supply LED: UL, UM, US

	IEC 61131 runtime system LED: FCRUN, SYSFAIL, RDY/RUN, BSA, FAIL, PF
Transmission medium	Copper
Maximum power dissipation for nominal condition	max. 1.875 W

Supply

Supply voltage	7.5 V DC (the power supply comes from the upstream bus coupler)
Supply voltage range	19.2 V DC ... 30 V DC
Max. total permissible current consumption of all I/O terminal blocks	Communications power (7,5 V DC) the power supply comes from the upstream bus coupler
	Analog supply (24 V DC) = 0.5 A
Residual ripple	±5 %
Typical current consumption	250 mA (no local bus device connected during idling, bus inactive)

Real-time clock

Realtime clock	Integrated (battery backup)

Potentials

Supply voltage	7.5 V DC ±5 %
Current draw	typ. 250 mA

Potentials

Supply voltage	24 V DC -15 % / +20 %

Potentials

Supply voltage	24 V DC -15 % / +20 % (in accordance with EN 61131-2)

Potentials

Supply voltage	24 V DC -15 % / +20 % (in accordance with EN 61131-2)
Current draw	max. 2 A

Input data

Digital:

Input name	Digital inputs
Description of the input	Interrupt input, fast counter, pulse generator
Number of inputs	4
Connection method	Inline potential distributor
Connection technology	2-, 3-, 4-conductor
Input voltage	2 x 24 V DC + 2 x 5/24 V DC
Typical input current per channel	40 mA
Typical response time	< 1 ms

Counter:

Number of inputs	4
Input frequency	40 kHz

Output data

Digital:

Output name	Digital outputs
Connection method	Spring-cage connection
Connection technology	2-, 3-, 4-conductor
Number of outputs	2
Output voltage	24 V DC
Maximum output current per channel	500 mA

Pulse direction

Number of pulse direction outputs	2
Limit frequency	20 kHz

Connection data

Inline connector

Connection method	Spring-cage connection
Conductor cross-section, rigid	0.08 mm² ... 1.5 mm²
Conductor cross-section, flexible	0.08 mm² ... 1.5 mm²
Conductor cross-section AWG	28 ... 16

Interfaces

INTERBUS local bus (master)

Number of interfaces	1
Connection method	Inline data jumper
Transmission speed	500 kBaud / 2 MBaud (can be switched)

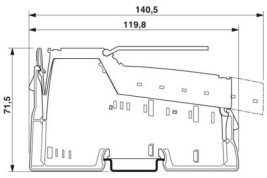
Higher-level INTERBUS local bus (slave)

Number of interfaces	1
Connection method	Inline data jumper
Transmission speed	500 kBaud
No. of channels	1

Parameterization/operation/diagnostics

Bus system	RS-232
Number of interfaces	1
Connection method	6-pos. MINI DIN socket (PS/2)
Transmission speed	19200 Baud
Transmission physics	Copper

Dimensions

Dimensional drawing	
Width	73 mm
Height	140.5 mm
Depth	71.5 mm

Material specifications

Color	green (RAL 6021)

Environmental and real-life conditions

Ambient conditions

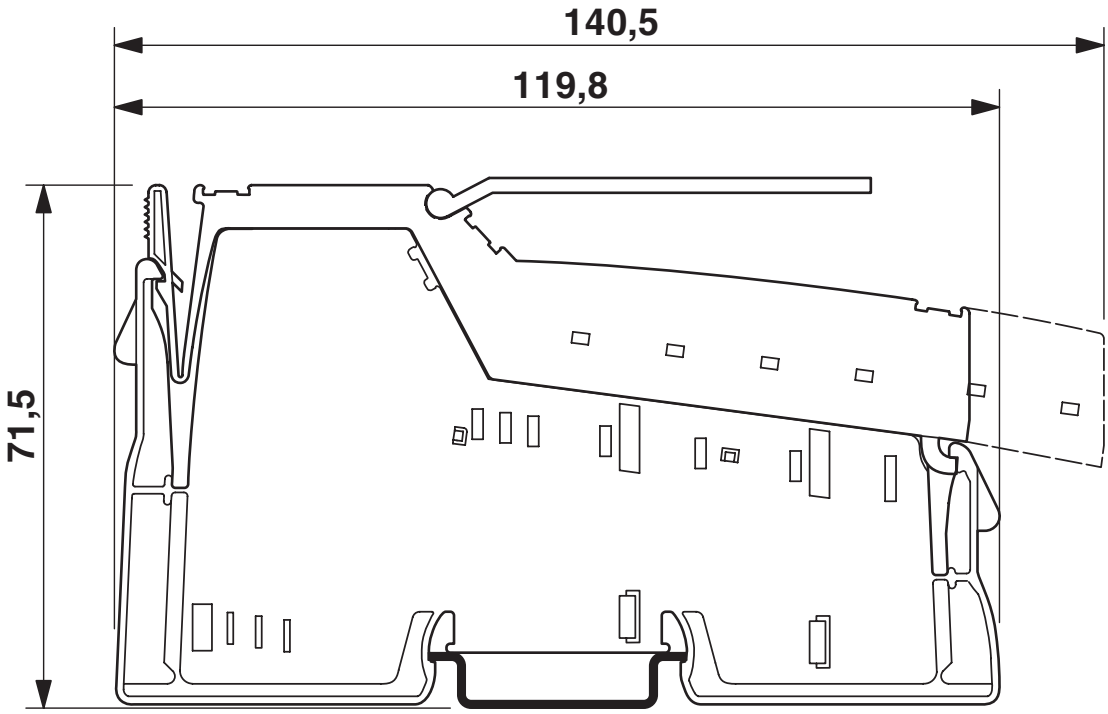
Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 75 °C
Permissible humidity (operation)	5 % ... 85 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 85 % (non-condensing)
Shock	25g, Criterion 1, according to IEC 60068-2-27
Vibration (operation)	2g, criterion 1 according to IEC 60068-2-6
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)

Mounting

Mounting type	DIN rail mounting

Drawings

Dimensional drawing



Classifications

ETIM

ETIM 8.0	EC000236

UNSPSC

UNSPSC 21.0	32151700

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: n/a)

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com