

## Controller - ILC 191 ME/INC - 2700075

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Inline controller with integrated pulse/direction/PWM interface, RS-485/RS-422, fast counters, and incremental encoder inputs, with programming options according to IEC 61131-3

### Product Description

The ILC 191 ME/INC modular small-scale controller for the Inline I/O system is at the heart of Easy Automation. The new ILC 1X1 series is characterized by its support for the Modbus/TCP and PROFINET Ethernet-based protocols. A new feature is the support for an optional SD card. 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, a two-channel fast counter with a cut-off frequency of up to 200 kHz, and two incremental encoder inputs for asymmetrical incremental encoders.

### Product Features

- Numerous protocols supported such as: HTTP, FTP, SNMP, SMTP, SQL, MySQL, etc.
- MODBUS TCP Client
- PROFINET-Device
- Large program memory and mass storage (1024 kB/1024 kB)
- Modbus TCP server
- HTML 5
- Free engineering with PC Worx Express (IEC 61131-3)
- Integrated pulse/direction/PWM interface
- Integrated RS-485/RS-422 interface
- Integrated fast counters and incremental encoder inputs
- Web server, FTP server, and Flash file system



### Key Commercial Data

|                                      |          |
|--------------------------------------|----------|
| Packing unit                         | 1 pc     |
| Weight per Piece (excluding packing) | 620.0 g  |
| Custom tariff number                 | 85371091 |
| Country of origin                    | Germany  |

# Controller - ILC 191 ME/INC - 2700075

## Technical data

### Note

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

### 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 |
| Diagnostics display   | No    |
| Controller redundancy | No    |

### Data interfaces

|                    |                                                                 |
|--------------------|-----------------------------------------------------------------|
| Interface          | INTERBUS local bus (master)                                     |
| Connection method  | Inline data jumper                                              |
| Transmission speed | 500 kBaud / 2 MBaud (can be switched)                           |
| 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                                               |
| Interface          | RS-422/485                                                      |
| Connection method  | 4-pos. for full duplex                                          |
|                    | 2-pos. for half duplex                                          |
| Interface          | Ethernet 10Base-T/100Base-TX                                    |

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### Data interfaces

|                    |               |
|--------------------|---------------|
| Connection method  | RJ45 socket   |
| Transmission speed | 10/100 MBit/s |

### PROFINET

|                 |                 |
|-----------------|-----------------|
| Device function | PROFINET device |
|-----------------|-----------------|

### Power supply

|                             |                       |
|-----------------------------|-----------------------|
| Typical current consumption | 350 mA                |
| Supply voltage              | 24 V DC               |
| Supply voltage range        | 19.2 V DC ... 30 V DC |
| Residual ripple             | ± 5 %                 |
| Power dissipation           | max. 8.4 W            |

### 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 supported branch terminals with remote bus branch | max. 3                                  |

### 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                                                      |
| Without analog input               | yes                                                         |
| Without analog output              | yes                                                         |
| Without pulse direction output     | No                                                          |
| Number of pulse direction outputs  | 2 (can be used as an alternative to pulse width modulation) |
| Output voltage                     | 5 V                                                         |
| Limit frequency                    | 150 kHz                                                     |
| Without counter input              | No                                                          |
| Number of inputs                   | 2                                                           |
| Input voltage range "1" signal     | 5 V DC ... 24 V DC                                          |

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### Technical data

#### Direct I/Os

|                                |                          |
|--------------------------------|--------------------------|
| Input frequency                | 200 kHz                  |
| Number of inputs               | 2 (3-coil, asymmetrical) |
| Input voltage range "1" signal | 5 V DC ... 24 V DC       |

#### General data

|                     |                       |
|---------------------|-----------------------|
| Processor           | Altera Nios II 64 MHz |
| Diagnostics display | No                    |

#### Standards and Regulations

|                               |                                               |
|-------------------------------|-----------------------------------------------|
| Shock                         | 25g, Criterion 1, according to IEC 60068-2-27 |
| Vibration (storage/transport) | 5g                                            |
| Vibration (operation)         | 5g                                            |

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27240409 |
| eCl@ss 4.1 | 27240409 |
| eCl@ss 5.0 | 27242207 |
| eCl@ss 5.1 | 27242207 |
| eCl@ss 6.0 | 27242207 |
| eCl@ss 7.0 | 27242207 |
| eCl@ss 8.0 | 27242207 |
| eCl@ss 9.0 | 27242207 |

#### ETIM

|          |          |
|----------|----------|
| 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

# Controller - ILC 191 ME/INC - 2700075

## Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

Approvals submitted

### Approval details

|                                                                                                  |
|--------------------------------------------------------------------------------------------------|
| UL Listed       |
| cUL Listed    |
| EAC                                                                                              |
| cULus Listed  |

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