

## For Electric Actuators Fieldbus-compatible Gateway (GW) Unit Series *LEC-G*



- The LE series electric actuators are applicable to Fieldbus protocols.
- Conversion unit for Fieldbus network and LEC serial communication

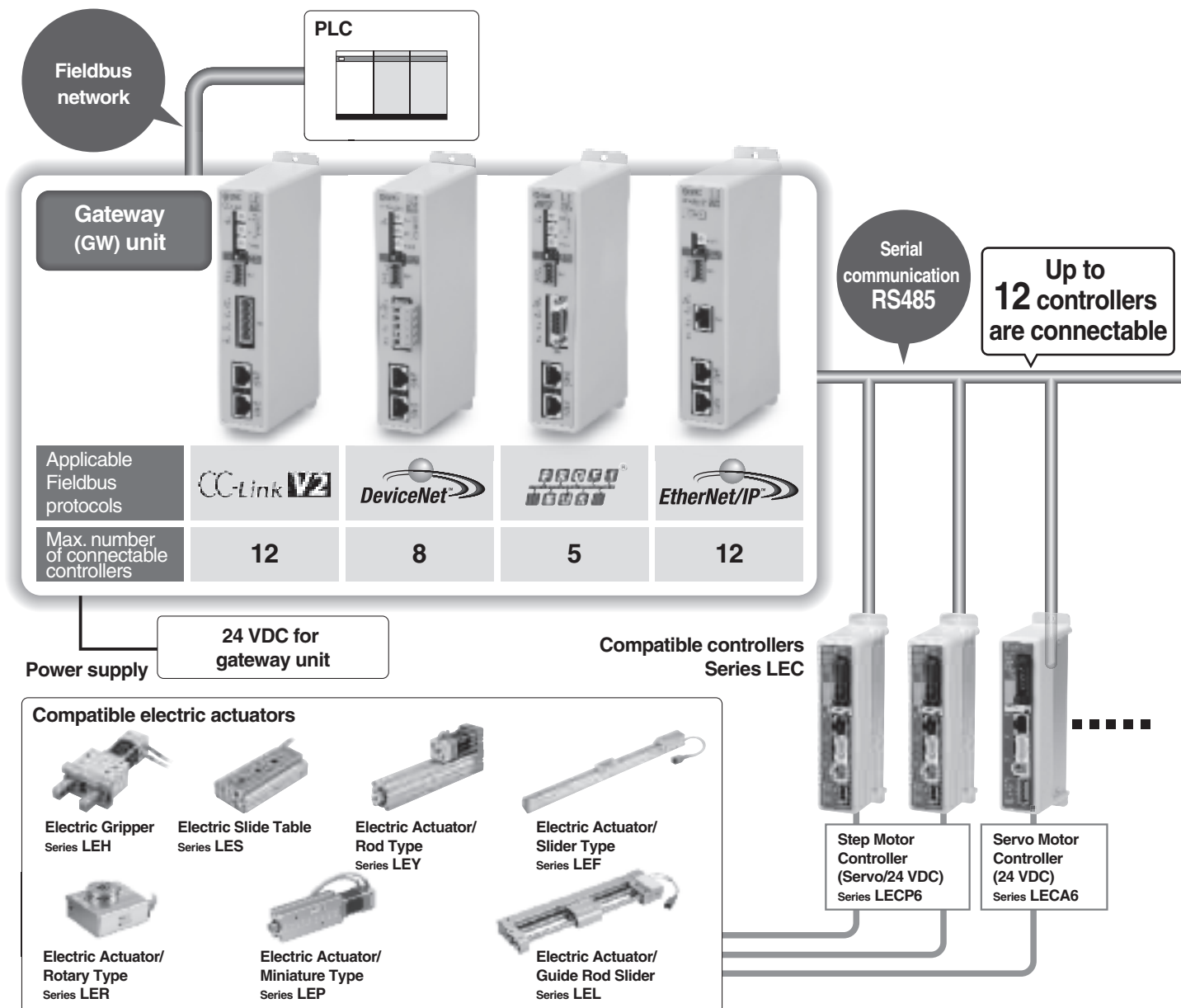
Applicable Fieldbus protocols: CC-Link V2, DeviceNet, Profibus, EtherNet/IP

- Two methods of operation

Step data input: Operate using preset step data in the controller.

Numerical data input: The actuator operates using values such as position and speed from the PLC.

- Position, speed, etc. values can be checked on the PLC.



## How to Order

### GW unit

LEC - G MJ2

#### Applicable Fieldbus protocols

|     |                  |
|-----|------------------|
| MJ2 | CC-Link Ver. 2.0 |
| DN1 | DeviceNet™       |
| PR1 | PROFIBUS DP      |
| EN1 | EtherNet/IP™     |

#### Mounting

|     |                   |
|-----|-------------------|
| Nil | Screw mounting    |
| D   | DIN rail mounting |



### Cable

LEC - CG 1 - L

#### Cable type

|   |                        |
|---|------------------------|
| 1 | Communication cable    |
| 2 | Cable between branches |

#### Cable length

|   |       |
|---|-------|
| K | 0.3 m |
| L | 0.5 m |
| 1 | 1 m   |



Communication cable



Cable between branches

### Branch connector

LEC - CGD

#### Branch connector



## Specifications

| Model                          |                                                           |                                   | LEC-GMJ2□                                       |                                                                 | LEC-GDN1□                           | LEC-GPR1□                                                       | LEC-GEN1□                           |
|--------------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------|-----------------------------------------------------------------|-------------------------------------|-----------------------------------------------------------------|-------------------------------------|
| Communication specifications   | Applicable system                                         | Fieldbus                          | CC-Link                                         |                                                                 | DeviceNet™                          | PROFIBUS DP                                                     | EtherNet/IP™                        |
|                                |                                                           | Version <sup>Note 1)</sup>        | Ver. 2.0                                        |                                                                 | Release 2.0                         | V1                                                              | Release 1.0                         |
|                                | Communication speed [bps]                                 |                                   | 156 k/625 k/2.5 M /5 M/10 M                     |                                                                 | 125 k/250 k/500 k                   | 9.6 k/19.2 k/45.45 k/ 93.75 k/187.5 k/500 k/ 1.5 M/3 M/6 M/12 M | 10 M/100 M                          |
|                                | Configuration file <sup>Note 2)</sup>                     |                                   | —                                               |                                                                 | EDS file                            | GSD file                                                        | EDS file                            |
|                                | I/O occupation area                                       |                                   | 4 stations occupied (8 times setting)           | Input 896 points<br>108 words<br>Output 896 points<br>108 words | Input 186 bytes<br>Output 182 bytes | Input 57 words<br>Output 57 words                               | Input 256 bytes<br>Output 256 bytes |
|                                | Power supply for communication                            | Power supply voltage [V]          | —                                               |                                                                 | 11 to 25 VDC                        | —                                                               | —                                   |
|                                |                                                           | Internal current consumption [mA] | —                                               |                                                                 | 100                                 | —                                                               | —                                   |
|                                | Communication connector specifications                    |                                   | Connector (Accessory)                           |                                                                 | Connector (Accessory)               | D-sub                                                           | RJ45                                |
| Terminating resistor           |                                                           | Not included.                     |                                                 | Not included.                                                   | Not included.                       | Not included.                                                   |                                     |
| Power supply voltage [V]       |                                                           |                                   | 24 VDC ±10%                                     |                                                                 |                                     |                                                                 |                                     |
| Current consumption [mA]       | Not connected to teaching box                             |                                   | 200                                             |                                                                 |                                     |                                                                 |                                     |
|                                | Connected to teaching box                                 |                                   | 300                                             |                                                                 |                                     |                                                                 |                                     |
| EMG output terminal            |                                                           |                                   | 30 VDC 1 A                                      |                                                                 |                                     |                                                                 |                                     |
| Controller specifications      | Applicable controllers                                    |                                   | Series LECP6, Series LECA6                      |                                                                 |                                     |                                                                 |                                     |
|                                | Communication speed [bps] <sup>Note 3)</sup>              |                                   | 115.2 k/230.4 k                                 |                                                                 |                                     |                                                                 |                                     |
|                                | Max. number of connectable controllers <sup>Note 4)</sup> |                                   | 12                                              | 8 <sup>Note 5)</sup>                                            | 5                                   | 12                                                              |                                     |
| Accessories                    |                                                           |                                   | Power supply connector, communication connector |                                                                 |                                     | Power supply connector                                          |                                     |
| Operating temperature range    |                                                           |                                   | 32 to 104°F (0 to 40°C) (No freezing)           |                                                                 |                                     |                                                                 |                                     |
| Operating humidity range [%RH] |                                                           |                                   | 90 or less (No condensation)                    |                                                                 |                                     |                                                                 |                                     |
| Storage temperature range      |                                                           |                                   | 14 to 140°F (–10 to 60°C) (No freezing)         |                                                                 |                                     |                                                                 |                                     |
| Storage humidity range [%RH]   |                                                           |                                   | 90 or less (No condensation)                    |                                                                 |                                     |                                                                 |                                     |
| Weight                         | Screw mounting type                                       |                                   | 7.05 oz (200 g)                                 |                                                                 |                                     |                                                                 |                                     |
|                                | DIN rail mounting type                                    |                                   | 7.76 oz (220 g)                                 |                                                                 |                                     |                                                                 |                                     |

Note 1) Please note that the version is subject to change.

Note 2) Each file can be downloaded from the SMC website, <http://www.smcworld.com>

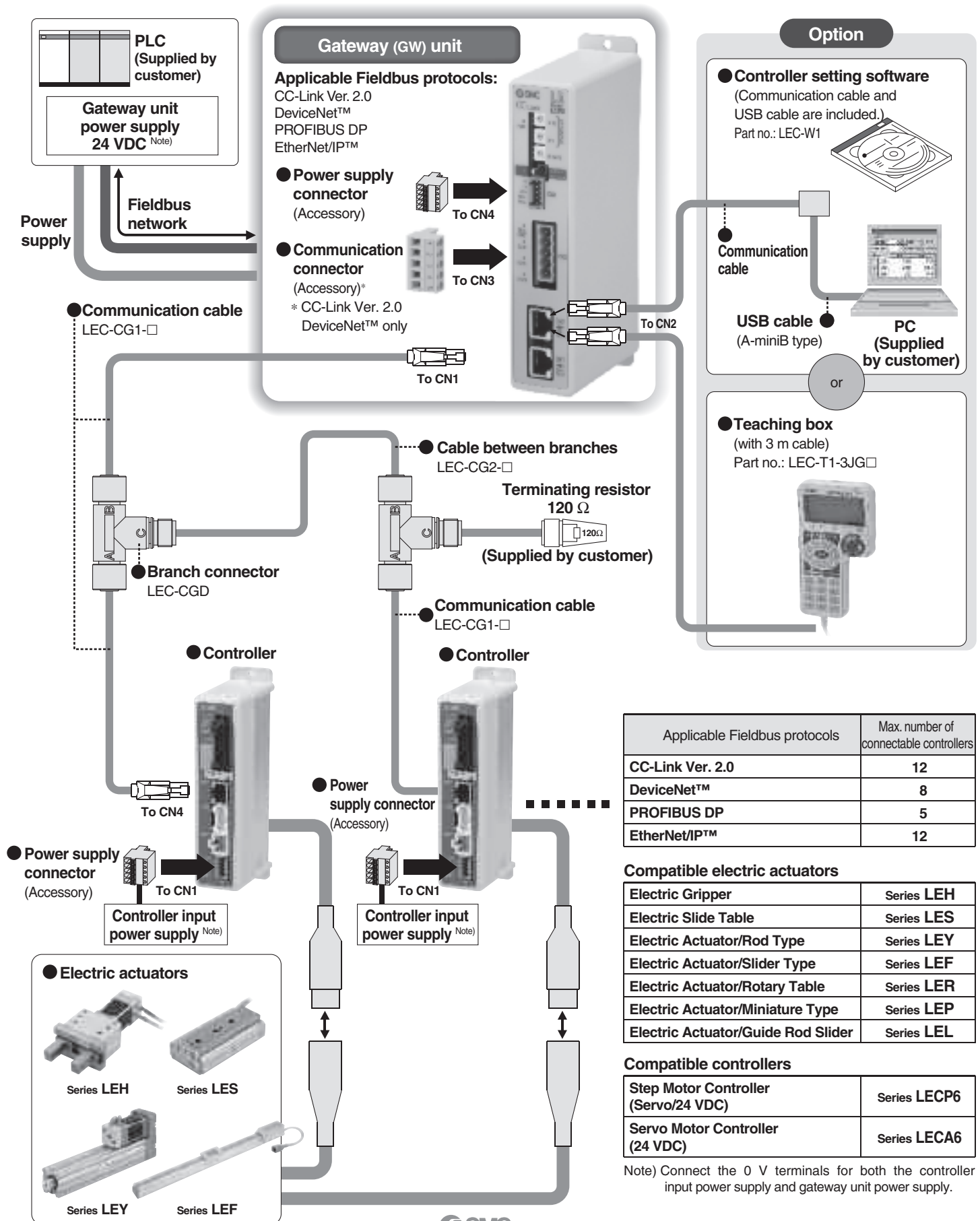
Note 3) When using a teaching box (LEC-T1-□), set the communication speed to 115.2 kbps.

Note 4) Communication response time for 1 controller is approximately 30 ms.

Refer to "Communication Response Time Guideline" for response times when several controllers are connected.

Note 5) For step data input, up to 12 controllers connectable.

## System Construction



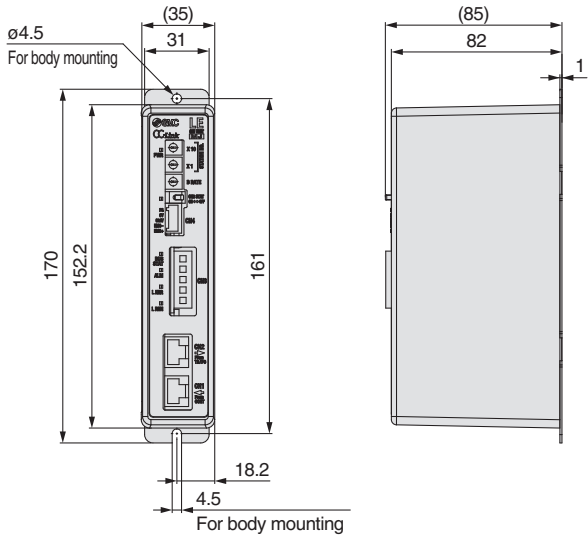
# Series LEC-G

## Dimensions

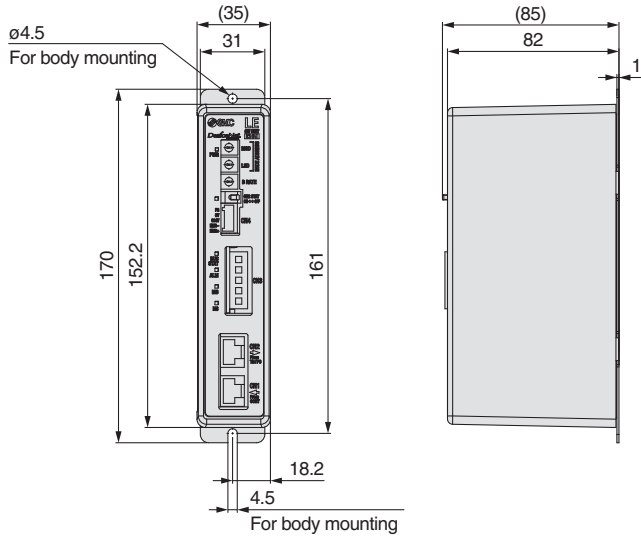
(mm)

### Screw mounting (LEC-G□□□)

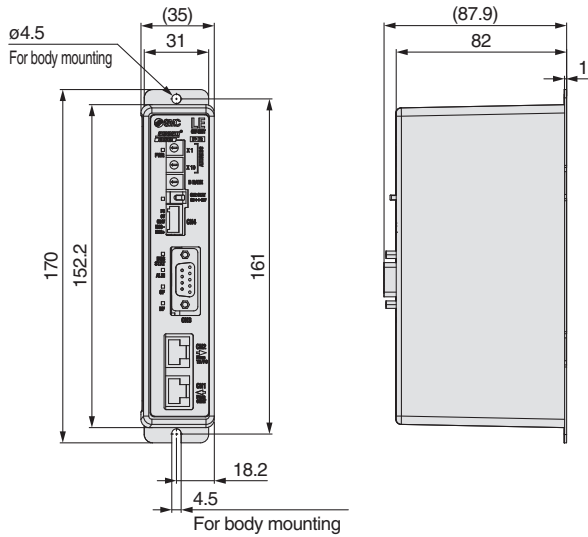
Applicable Fieldbus protocol: CC-Link Ver. 2.0



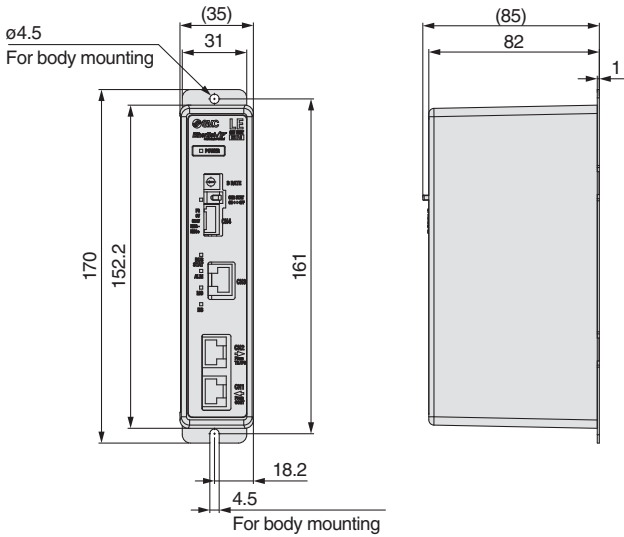
Applicable Fieldbus protocol: DeviceNet™



Applicable Fieldbus protocol: PROFIBUS DP



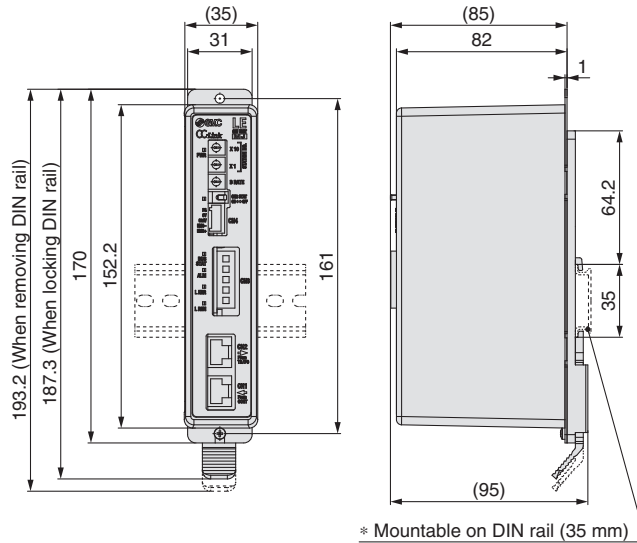
Applicable Fieldbus protocol: EtherNet/IP™



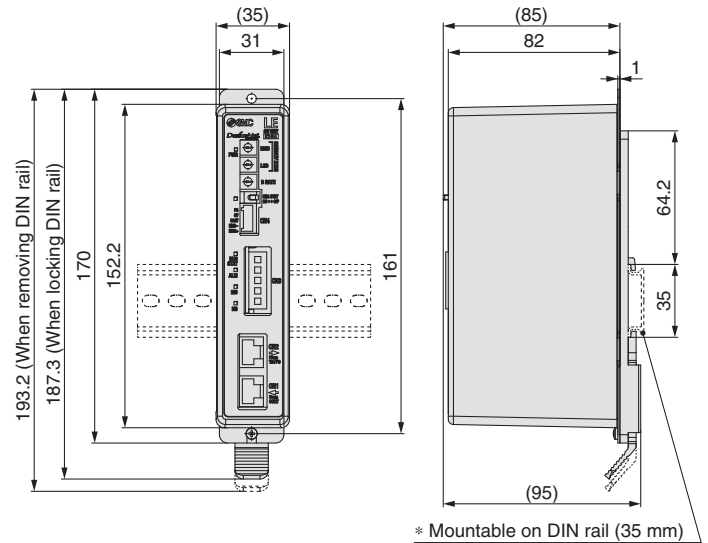
## Dimensions

### DIN rail mounting (LEC-G□□□D)

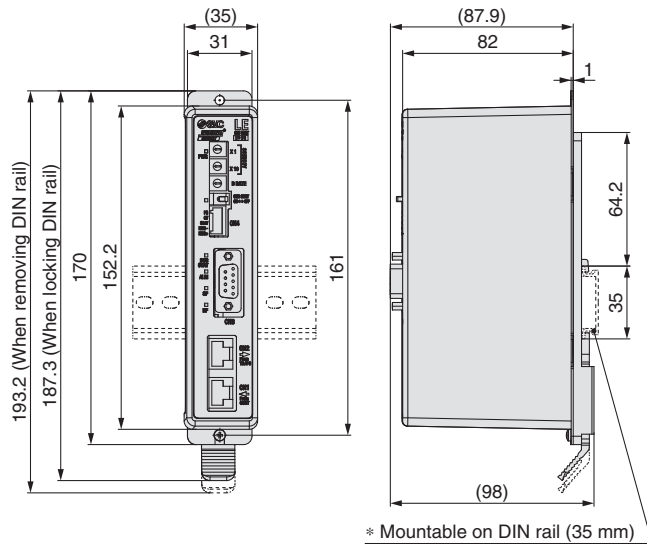
Applicable Fieldbus protocol: CC-Link Ver. 2.0



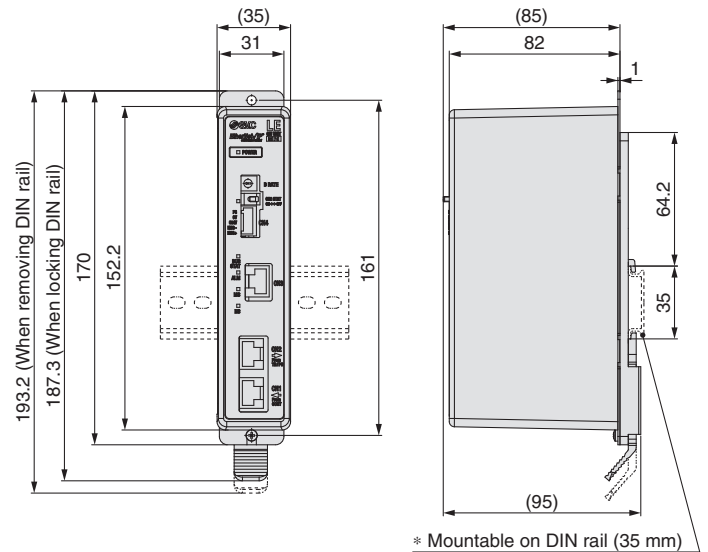
Applicable Fieldbus protocol: DeviceNet™



Applicable Fieldbus protocol: PROFIBUS DP



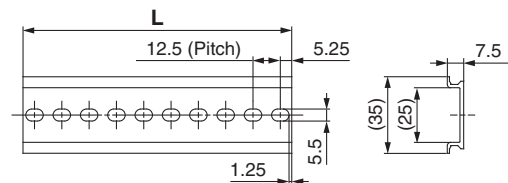
Applicable Fieldbus protocol: EtherNet/IP™



### DIN rail

#### AXT100-DR-□

\* For □, enter a number from the "No." line in the table below.  
 Refer to the dimensions above for the mounting dimensions.

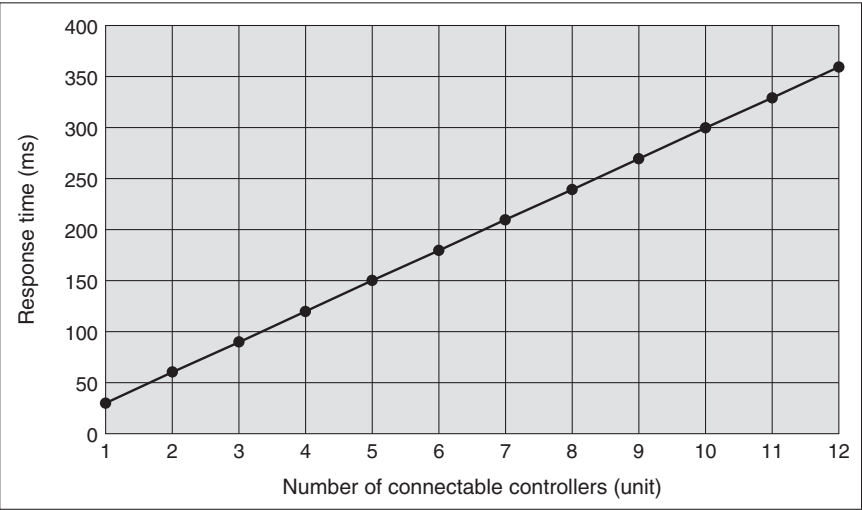


### L Dimension [mm]

| No. | 1   | 2     | 3   | 4     | 5   | 6     | 7   | 8     | 9   | 10    | 11  | 12    | 13  | 14    | 15  | 16    | 17  | 18    | 19  | 20    |
|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| L   | 23  | 35.5  | 48  | 60.5  | 73  | 85.5  | 98  | 110.5 | 123 | 135.5 | 148 | 160.5 | 173 | 185.5 | 198 | 210.5 | 223 | 235.5 | 248 | 260.5 |
| No. | 21  | 22    | 23  | 24    | 25  | 26    | 27  | 28    | 29  | 30    | 31  | 32    | 33  | 34    | 35  | 36    | 37  | 38    | 39  | 40    |
| L   | 273 | 285.5 | 298 | 310.5 | 323 | 335.5 | 348 | 360.5 | 373 | 385.5 | 398 | 410.5 | 423 | 435.5 | 448 | 460.5 | 473 | 485.5 | 498 | 510.5 |

**Communication Response Time Guideline**

Response time between gateway unit and controllers depends on the number of controllers connected to the gateway unit.  
For response time, refer to the graph below.



\* This graph shows delay times between gateway unit and controllers.  
Fieldbus network delay time is not included.

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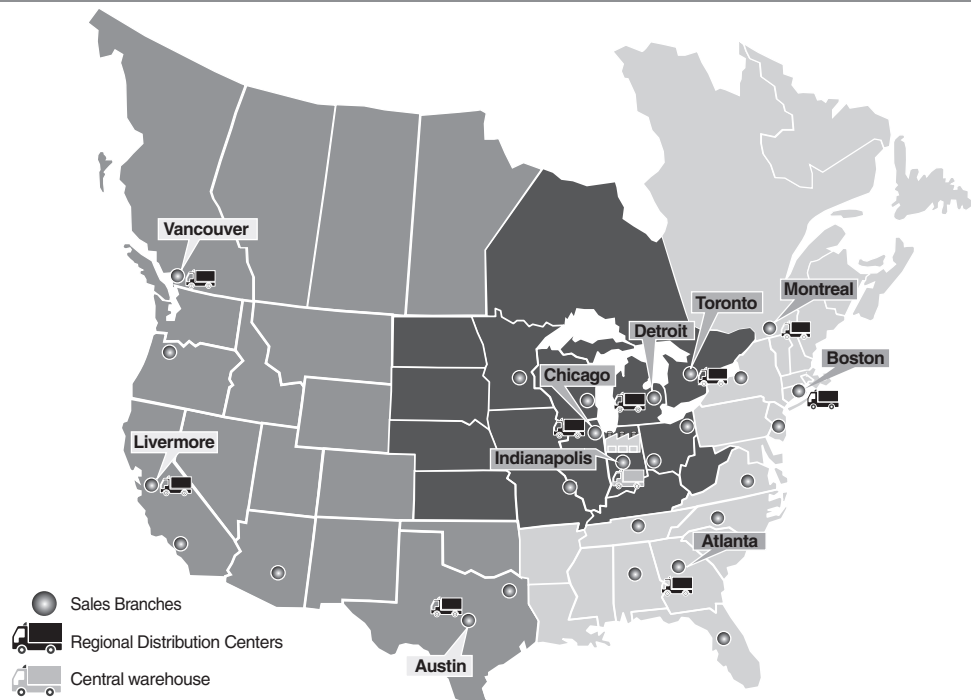
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