

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



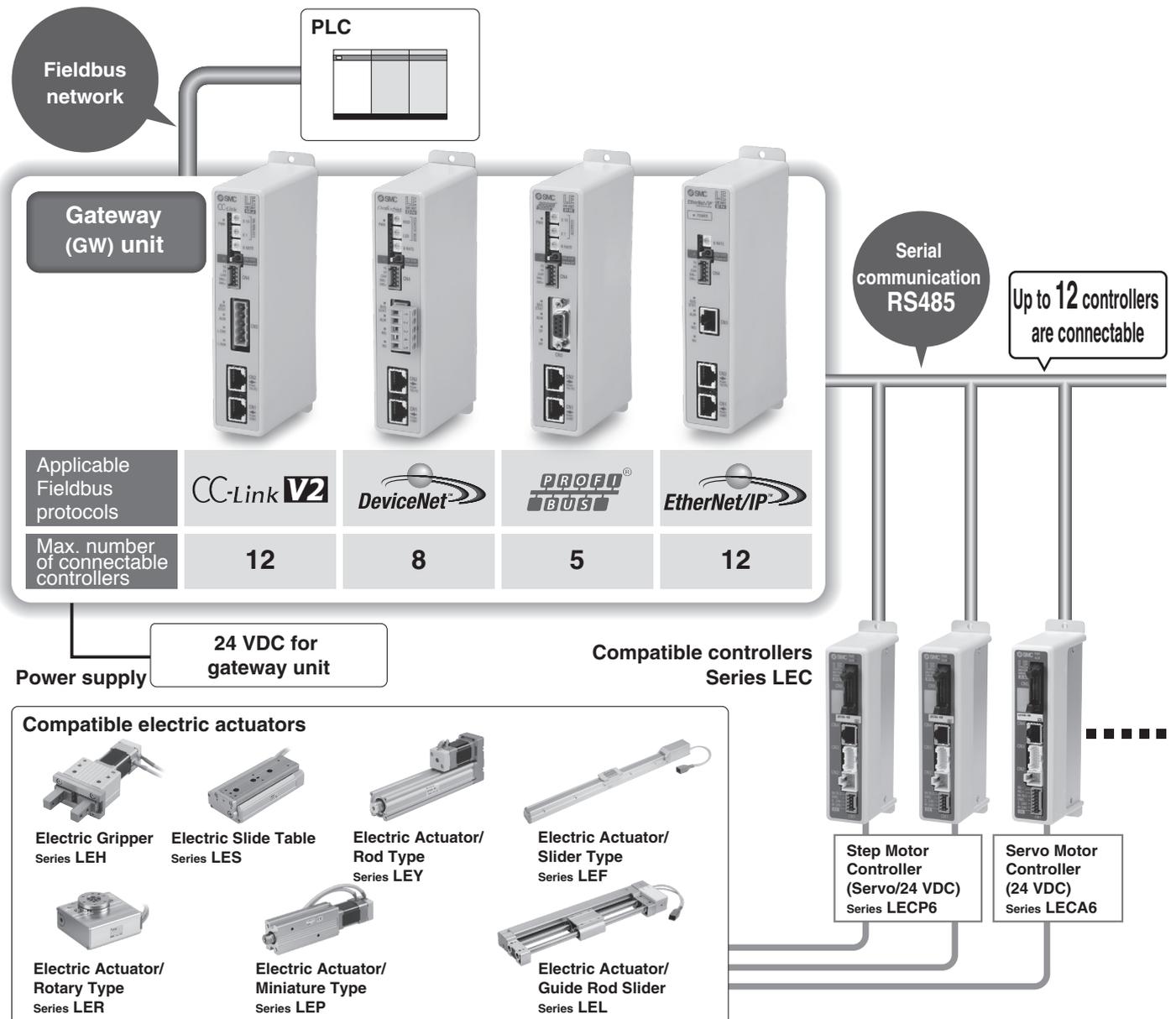
Applicable Fieldbus protocols: CC-Link V2

■ 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.



Series LEC-G

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

—	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 Version <small>Note 1)</small>	CC-Link Ver. 2.0	DeviceNet™ Release 2.0	PROFIBUS DP V1	EtherNet/IP™ 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 <small>Note 2)</small>	—		EDS file	GSD file	EDS file
	I/O occupation area	4 stations occupied (8 times setting)	Input 896 points 108 words Output 896 points 108 words	Input 186 bytes Output 182 bytes	Input 57 words Output 57 words	Input 256 bytes Output 256 bytes
	Power supply for communication	Power supply voltage [V] Internal current consumption [mA]	— —	11 to 25 VDC 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] <small>Note 3)</small>	115.2 k/230.4 k				
	Max. number of connectable controllers <small>Note 4)</small>	12	8 <small>Note 5)</small>	5	12	
Accessories	Power supply connector, communication connector			Power supply connector		
Operating temperature range [°C]	0 to 40 (No freezing)					
Operating humidity range [%RH]	90 or less (No condensation)					
Storage temperature range [°C]	-10 to 60 (No freezing)					
Storage humidity range [%RH]	90 or less (No condensation)					
Weight [g]	Screw mounting type	200				
	DIN rail mounting type	220				

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.

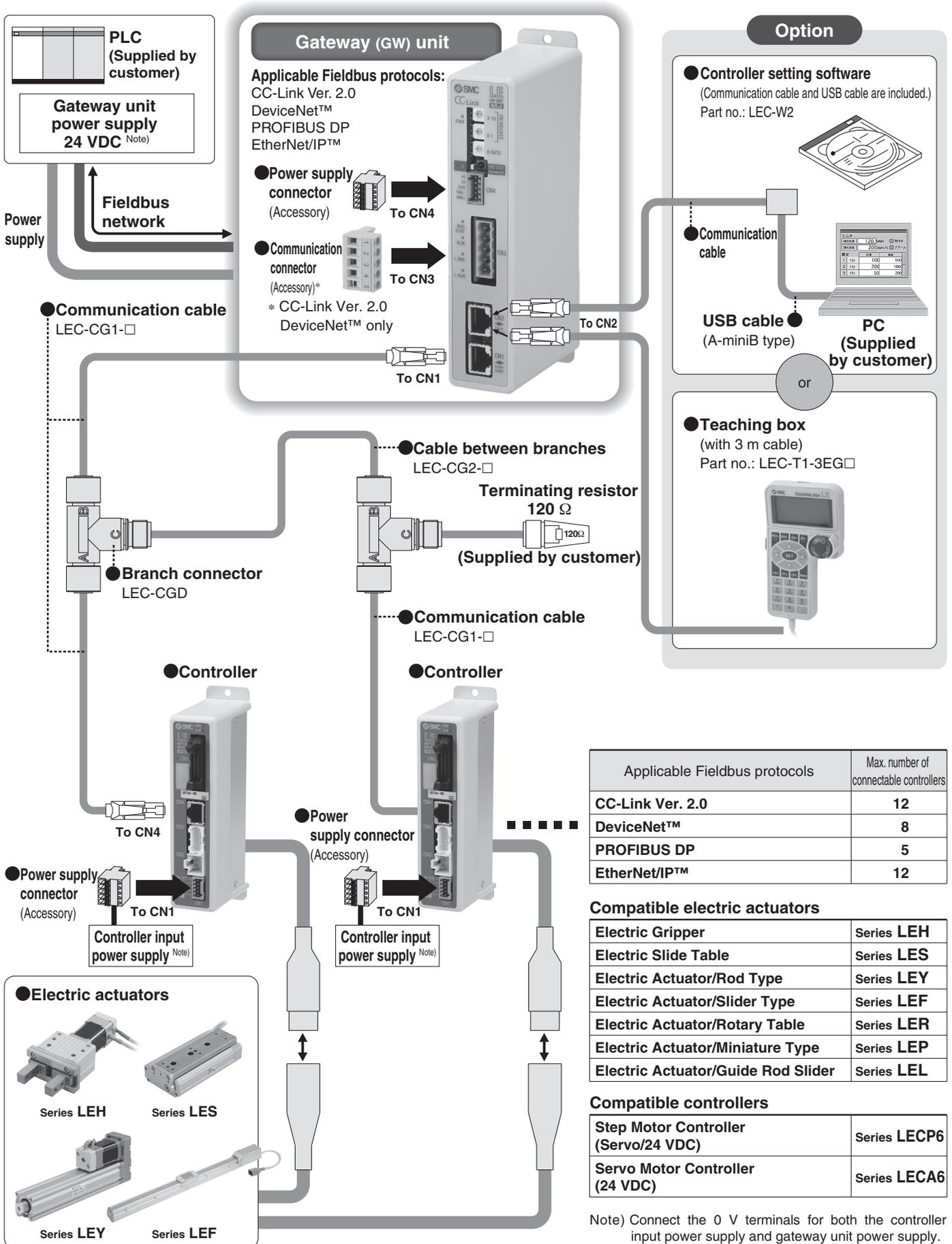
Note 5) For step data input, up to 12 controllers connectable.

Trademark

DeviceNet™ is a trademark of ODVA.

EtherNet/IP™ is a trademark of ODVA.

System Construction



Applicable Fieldbus protocols	Max. number of connectable controllers
CC-Link Ver. 2.0	12
DeviceNet™	8
PROFIBUS DP	5
EtherNet/IP™	12

Compatible electric actuators

Electric Gripper	Series LEH
Electric Slide Table	Series LES
Electric Actuator/Rod Type	Series LEY
Electric Actuator/Slider Type	Series LEF
Electric Actuator/Rotary Table	Series LER
Electric Actuator/Miniature Type	Series LEP
Electric Actuator/Guide Rod Slider	Series LEL

Compatible controllers

Step Motor Controller (Servo/24 VDC)	Series LECP6
Servo Motor Controller (24 VDC)	Series LECA6

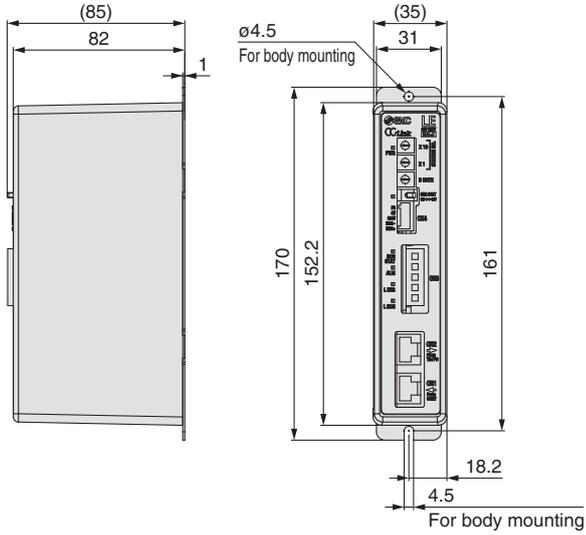
Note) Connect the 0 V terminals for both the controller input power supply and gateway unit power supply.

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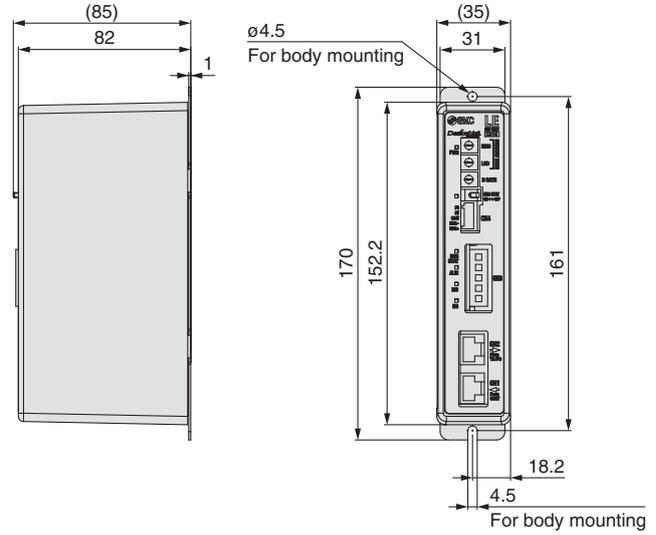
Dimensions

Screw mounting (LEC-G□□□)

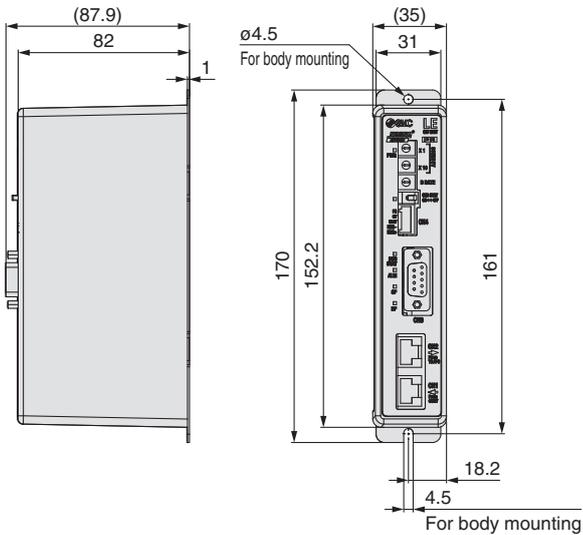
Applicable Fieldbus protocol: CC-Link Ver. 2.0



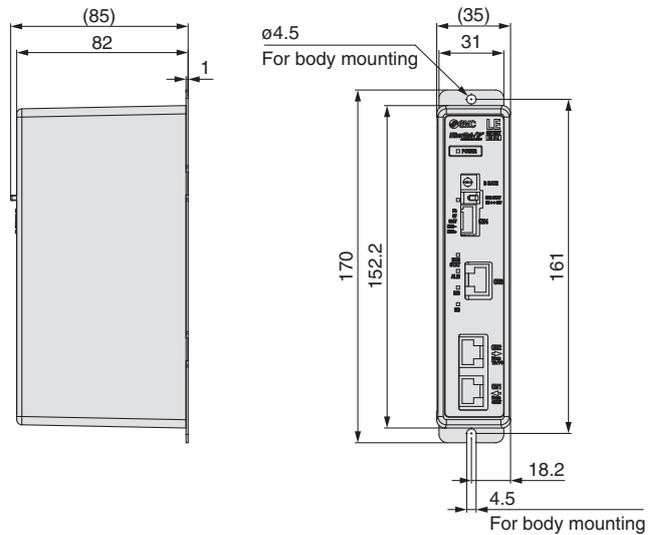
Applicable Fieldbus protocol: DeviceNet™



Applicable Fieldbus protocol: PROFIBUS DP



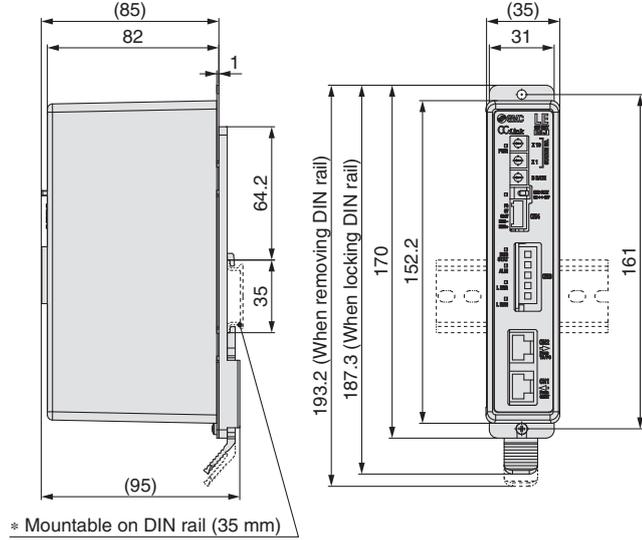
Applicable Fieldbus protocol: EtherNet/IP™



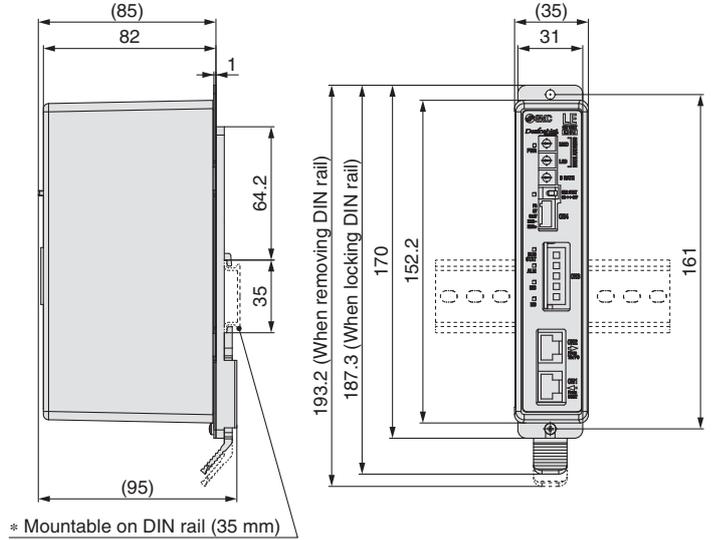
Dimensions

DIN rail mounting (LEC-G□□□D)

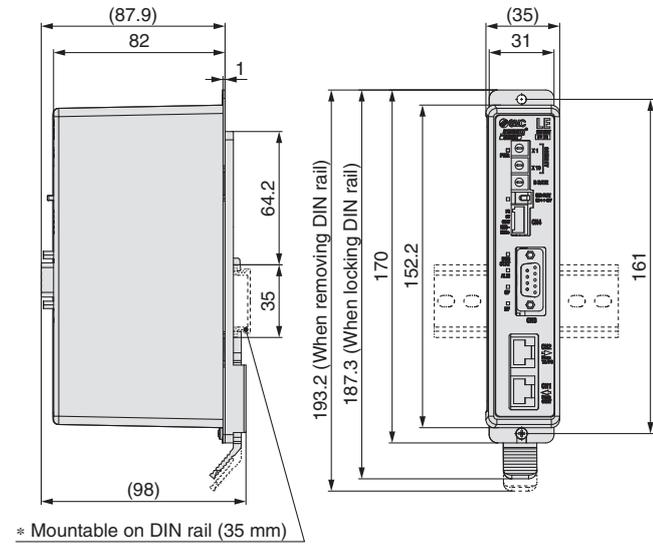
Applicable Fieldbus protocol: CC-Link Ver. 2.0



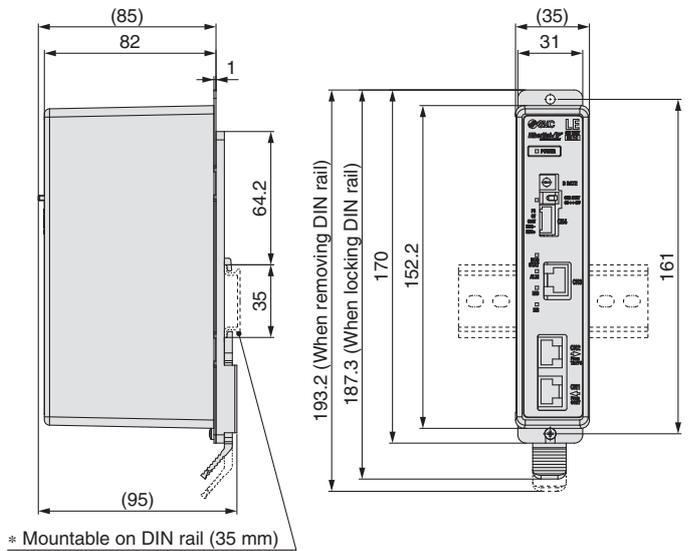
Applicable Fieldbus protocol: DeviceNet™



Applicable Fieldbus protocol: PROFIBUS DP



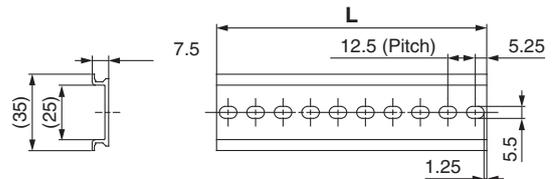
Applicable Fieldbus protocol: EtherNet/IP™



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.



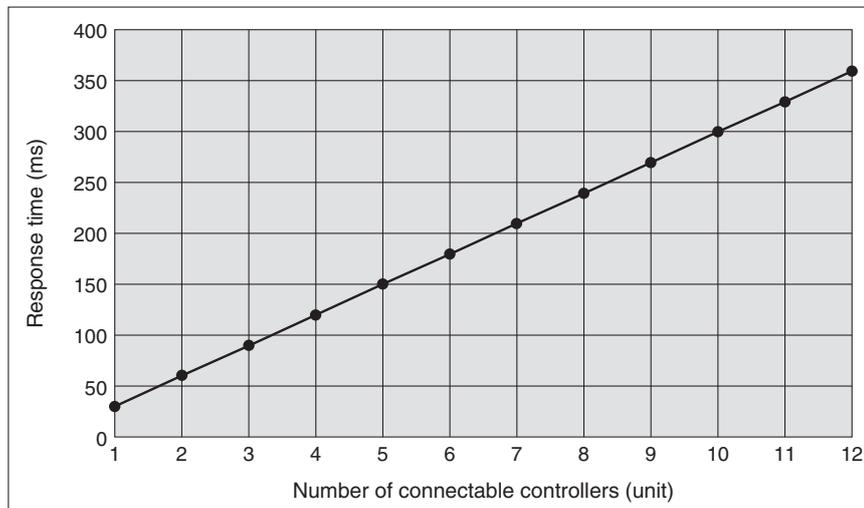
L Dimension [mm]

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

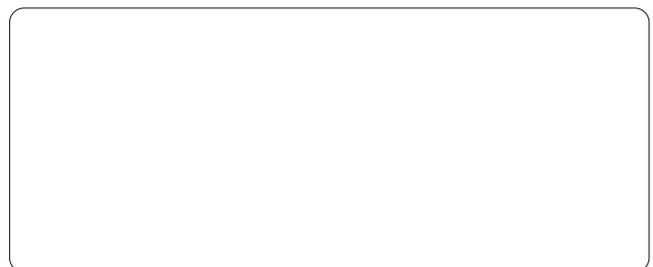
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Communication Response Time Guideline

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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