

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

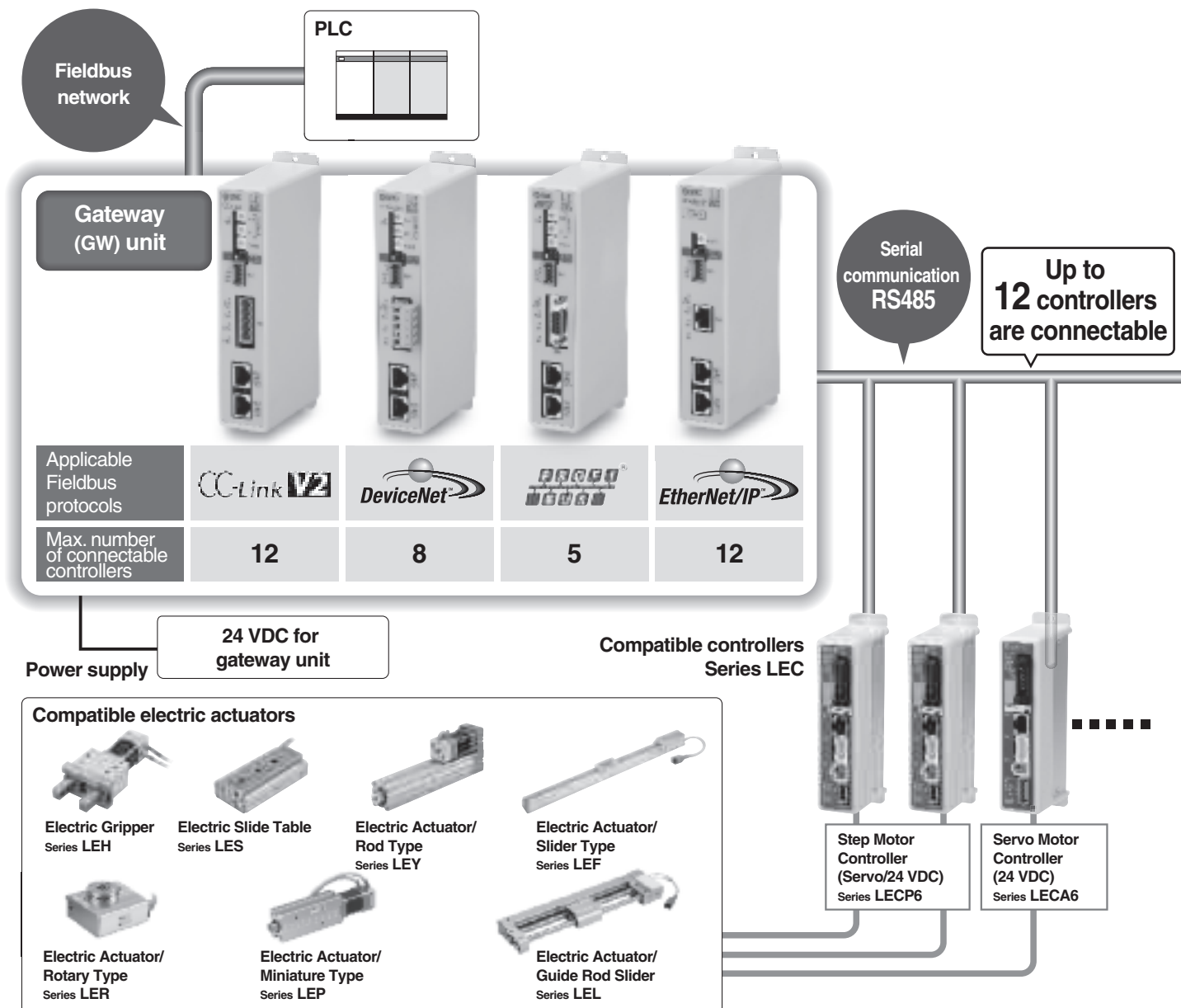
Applicable Fieldbus protocols: CC-Link V2, DeviceNet, Profibus, EtherNet/IP

- 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 <small>Note 1)</small>	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 <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]	—		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] <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			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>

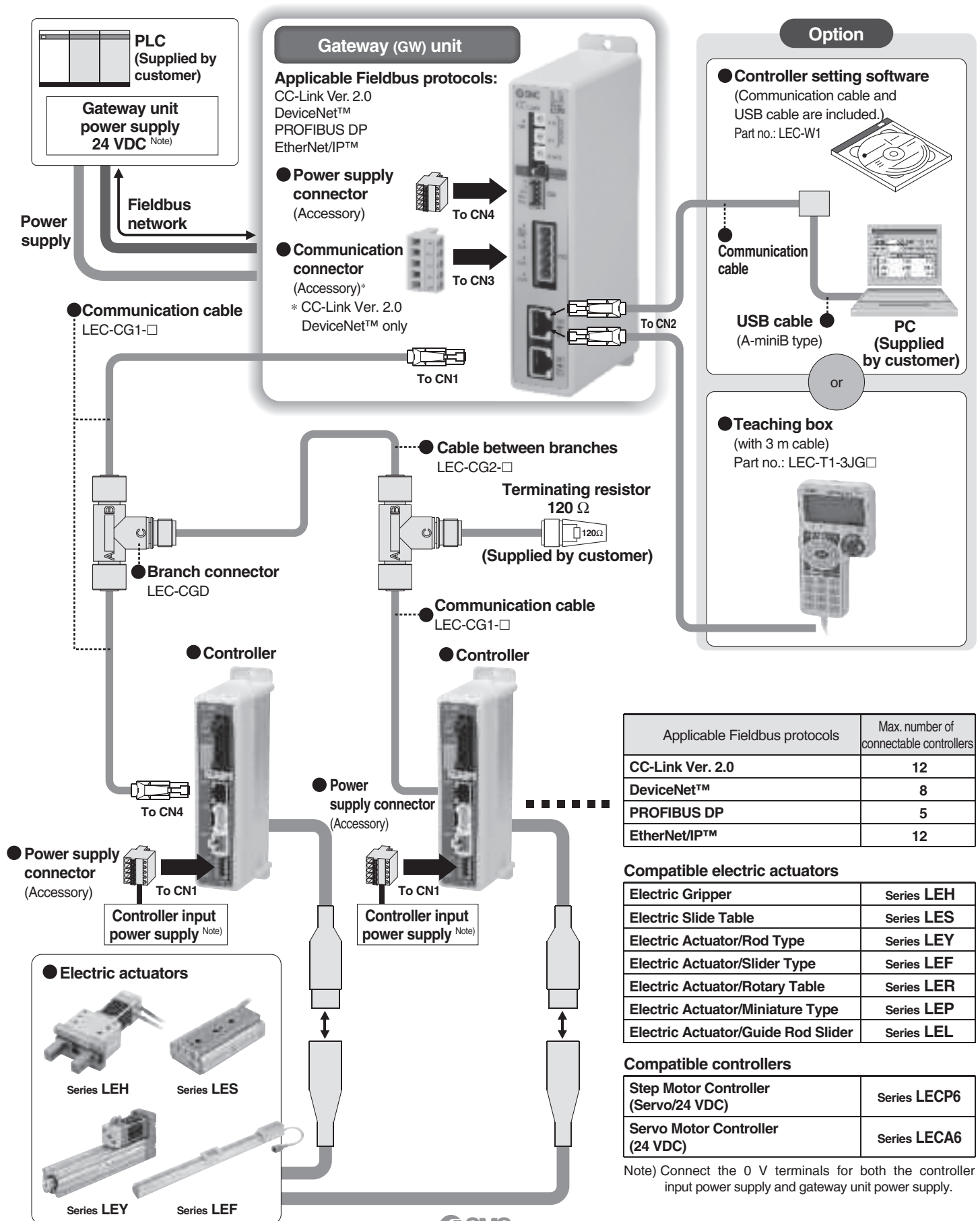
Note 3) When using a teaching box (LEC-T1-□), set the communication speed to 115.2 kbps.

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



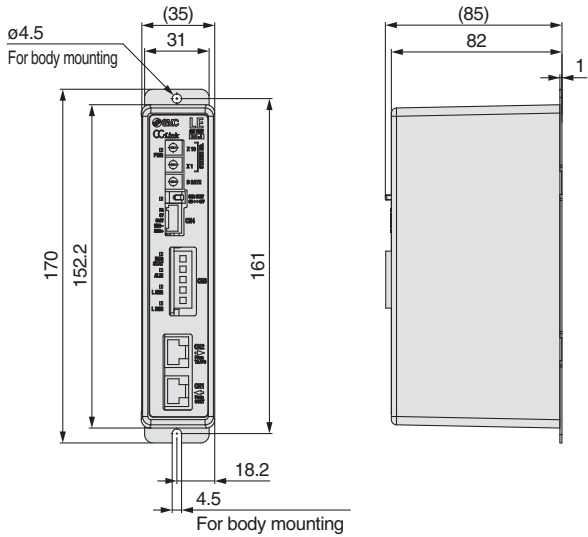
Series *LEC-G*

Dimensions

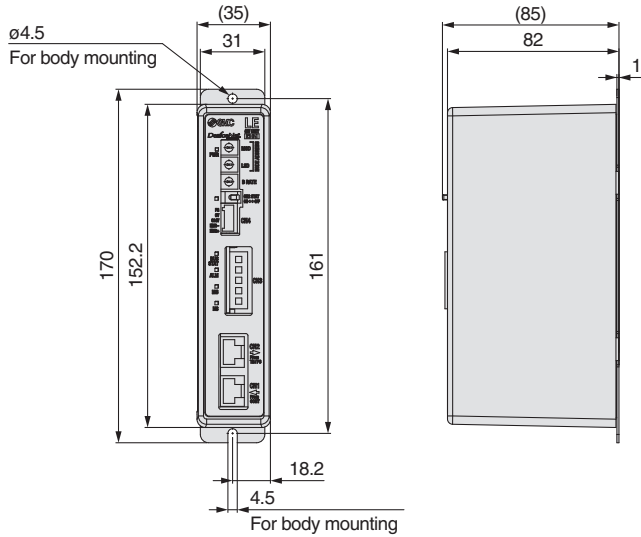
(mm)

Screw mounting (LEC-G□□□)

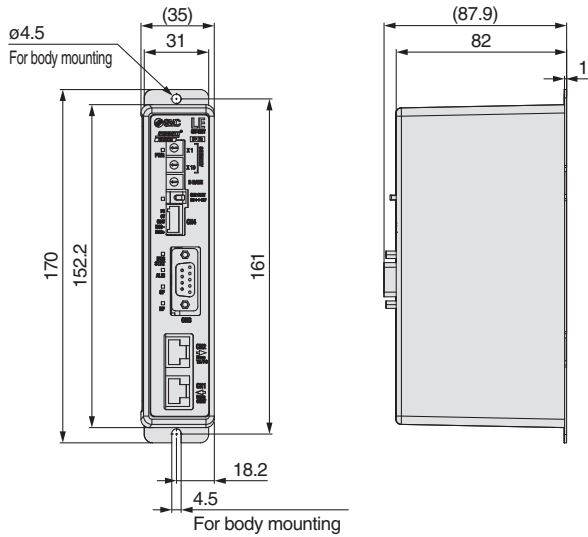
Applicable Fieldbus protocol: CC-Link Ver. 2.0



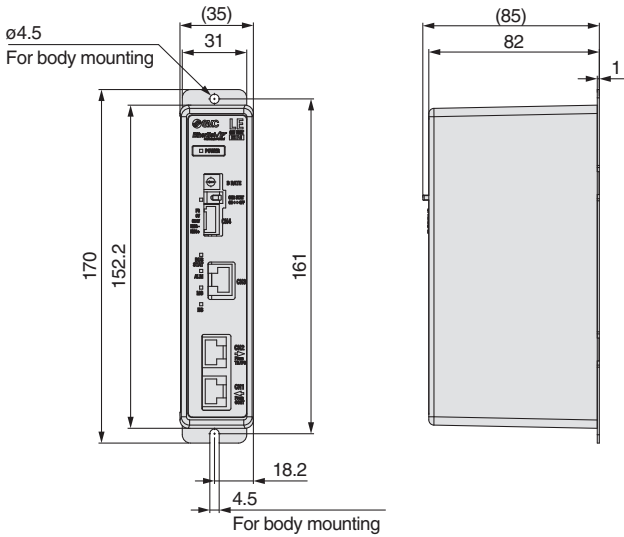
Applicable Fieldbus protocol: DeviceNet™



Applicable Fieldbus protocol: PROFIBUS DP



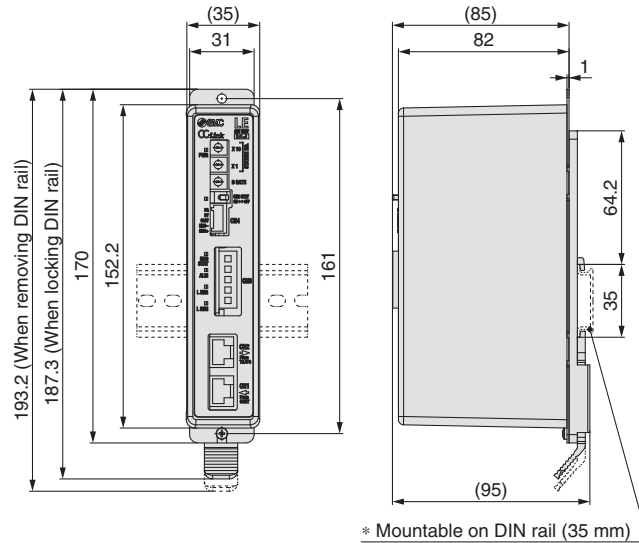
Applicable Fieldbus protocol: EtherNet/IP™



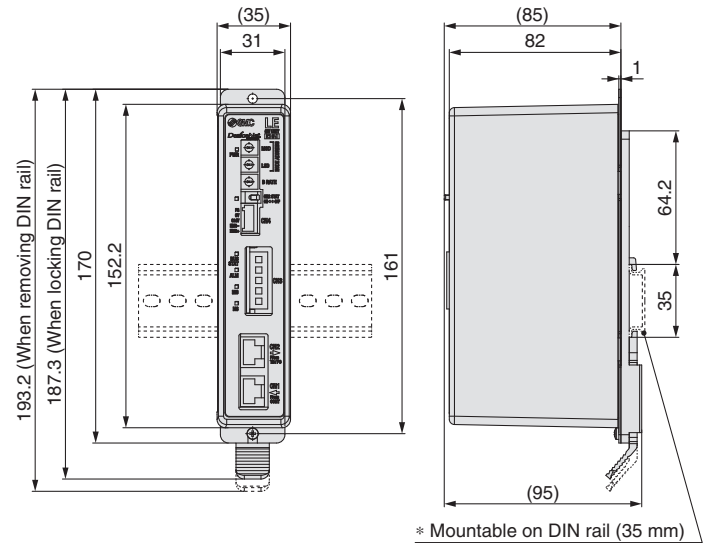
Dimensions

DIN rail mounting (LEC-G□□□D)

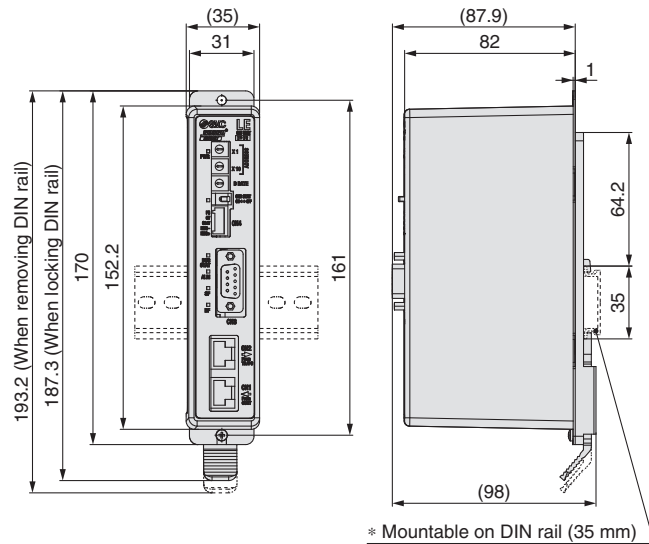
Applicable Fieldbus protocol: CC-Link Ver. 2.0



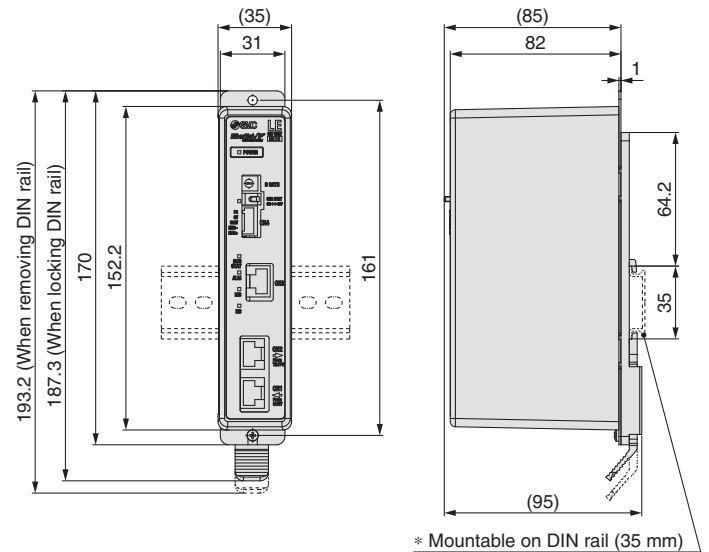
Applicable Fieldbus protocol: DeviceNet™



Applicable Fieldbus protocol: PROFIBUS DP



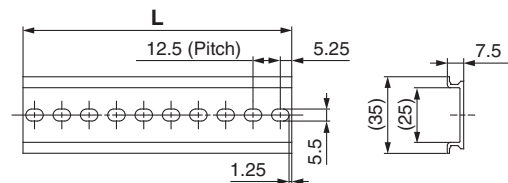
Applicable Fieldbus protocol: EtherNet/IP™



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.

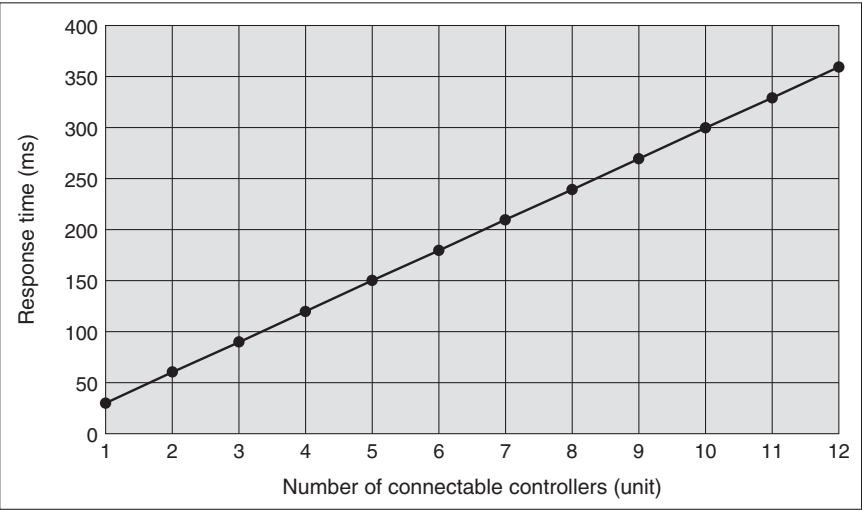


L Dimension [mm]

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.

Global Manufacturing, Distribution and Service Network

Worldwide Subsidiaries

North & South America

- U.S.A. SMC Corporation of America
- CANADA SMC Pneumatics (Canada) Ltd.
- MEXICO SMC Corporation(México), S.A. de C.V.
- BRAZIL SMC Pneumáticos do Brasil Ltda.
- CHILE SMC Pneumatics (Chile) S.A.
- COLOMBIA SMC Colombia Sucursal de SMC Chile S.A.
- ARGENTINA SMC Argentina S.A.
- BOLIVIA SMC Pneumatics Bolivia S.r.l.
- VENEZUELA SMC Neumatica Venezuela S.A.
- PERU (Distributor) IMPECO Automatización Industrial S.A.C.
- ECUADOR (Distributor) ASSISTECH CIA. LTDA.

Asia/Oceania

- CHINA SMC(China)Co.,Ltd.
- CHINA SMC Pneumatics (Guangzhou) Ltd.
- HONG KONG SMC Pneumatics(Hong Kong)Ltd.
- TAIWAN SMC Pneumatics(Taiwan)Co.,Ltd.
- KOREA SMC Pneumatics Korea Co., Ltd.
- SINGAPORE SMC Pneumatics(S.E.A.)Pte.Ltd.
- MALAYSIA SMC Pneumatics(S.E.A.)Sdn.Bhd.
- THAILAND SMC (Thailand) Ltd.
- PHILIPPINES Shoketsu SMC Corporation
- INDIA SMC Pneumatics(India)Pvt.Ltd.
- ISRAEL (Distributor) Baccara Geva A.C.S. Ltd.
- INDONESIA (Distributor) PT. Sinar Mutiara Cemerlang
- VIETNAM (Distributor) Dy Dan Trading Co.,Ltd.
- PAKISTAN (Distributor) Jubilee Corporation

Asia/Oceania

- SRI LANKA (Distributor) Electro-Serv(Pvt.)Ltd.
- IRAN (Distributor) Abzarchian Co. Ltd.
- U.A.E. (Distributor) Machinery People Trading Co. L.L.C.
- KUWAIT (Distributor) Esco Kuwait Equip & Petroleum App. Est.
- SAUDI ARABIA (Distributor) Assaggaff Trading Est.
- BAHRAIN (Distributor) Mohammed Jalal & Sons W.L.L. Technical & Automotive Services
- SYRIA (Distributor) Miak Corporation
- JORDAN (Distributor) Atafawok Trading Est.
- BANGLADESH (Distributor) Chemie International
- AUSTRALIA SMC Pneumatics(Australia)Pty.Ltd.
- NEW ZEALAND SMC Pneumatics(N.Z.)Ltd.
- JAPAN SMC Corporation

Europe/Africa

- GERMANY SMC Pneumatik GmbH
- SWITZERLAND SMC Pneumatik AG
- U.K. SMC Pneumatics (U.K.) Ltd.
- FRANCE SMC Pneumatique SA
- SPAIN / PORTUGAL SMC España S.A.
- ITALY SMC Italia S.p.A.
- GREECE SMC HELLAS E.P.E
- IRELAND SMC Pneumatics (Ireland) Ltd.
- NETHERLANDS (Associated company) SMC Pneumatics BV
- BELGIUM (Associated company) SMC Pneumatics N.V./S.A.
- DENMARK SMC Pneumatik A/S
- AUSTRIA SMC Pneumatik GmbH (Austria)

Europe/Africa

- CZECH REPUBLIC SMC Industrial Automation CZ s.r.o.
- HUNGARY SMC Hungary Ipari Automatizálási Kft.
- POLAND SMC Industrial Automation Polska Sp. z o.o.
- SLOVAKIA SMC Priemyselná Automatizácia Spol s.r.o.
- SLOVENIA SMC Industrijska Avtomatika d.o.o.
- BULGARIA SMC Industrial Automation Bulgaria EOOD
- CROATIA SMC Industrijska Automatika d.o.o.
- BOSNIA AND HERZEGOVINA(Distributor) A.M. Pneumatik d.o.o.
- SERBIA(Distributor) Best Pneumatics d.o.o.
- UKRAINE(Distributor) PNEUMOTEC Corp.
- FINLAND SMC Pneumatics Finland Oy
- NORWAY SMC Pneumatics Norway AS
- SWEDEN SMC Pneumatics Sweden AB
- ESTONIA SMC Pneumatics Estonia Oü
- LATVIA SMC Pneumatics Latvia SIA
- LITHUANIA(LIETUVA) UAB "SMC Pneumatics"
- ROMANIA SMC Romania S.r.l.
- RUSSIA SMC Pneumatik LLC.
- KAZAKHSTAN SMC Kazakhstan, LLC.
- TURKEY (Distributor) Entek Pnömatik Sanayi ve. Ticaret Şirketi
- MOROCCO (Distributor) Soraflex
- TUNISIA (Distributor) Bymys
- EGYPT (Distributor) Saadani Trading & Industrial Services
- NIGERIA (Distributor) Faraday Engineering Company Ltd.
- SOUTH AFRICA (Distributor) Hyflo Southern Africa (Pty.) Ltd.

U.S. & Canadian Sales Offices

WEST

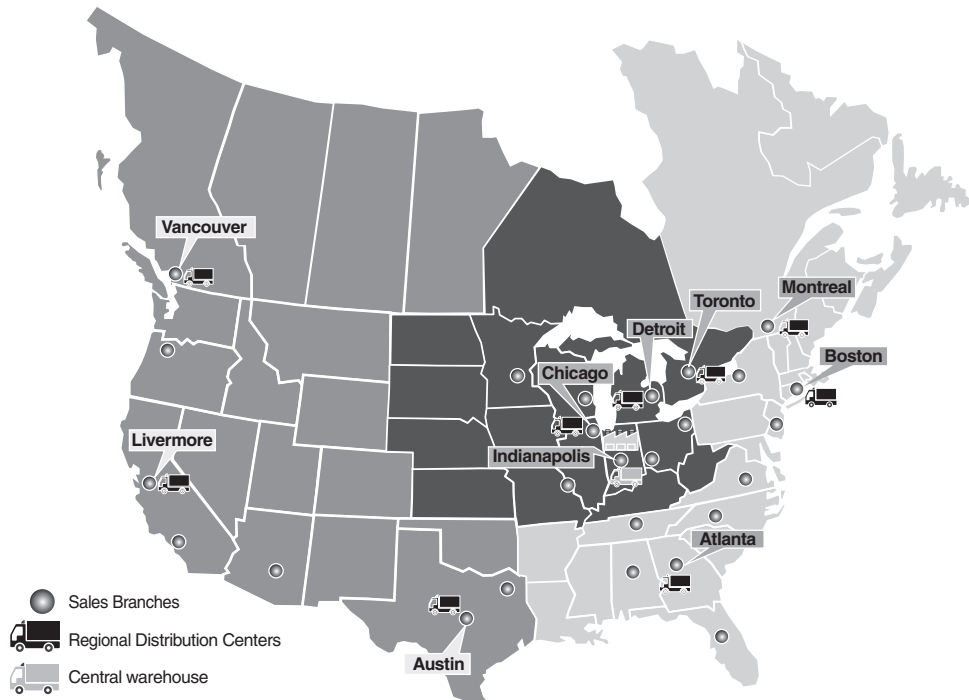
Austin
Dallas
Los Angeles
Phoenix
Portland
San Francisco
Vancouver

EAST

Atlanta
Birmingham
Boston
Charlotte
Nashville
New Jersey
Richmond
Rochester
Tampa
Montreal

CENTRAL

Chicago
Cincinnati
Cleveland
Detroit
Indianapolis
Milwaukee
Minneapolis
St. Louis
Toronto
Windsor



SMC Corporation of America

10100 SMC Blvd., Noblesville, IN 46060

www.smcusa.com

SMC Pneumatics (Canada) Ltd.

www.smcpcanamics.ca

(800) SMC.SMC1 (762-7621)

e-mail: sales@smcusa.com

For International inquiries: www.smcworld.com

