

ROBONET/PCON/ACON/SCON PSEL/ASEL/SSEL/XSEL

CC-Link

DeviceNet

FIELD NETWORK

ProfiBus

Ethernet

Introducing the Network Specification PSEL/ASEL Controllers

All models of the ROBO Cylinder controllers now support field network connection*

*Excludes PCON-CF



Features

1 The controller can be connected directly to major networks

- DeviceNet
- CC-Link
- ProfiBus
- Ethernet

*Ethernet is only supported on XSEL controllers

2 To control the actuator, all you need is to turn the position number I/O ON via network, and the actuator will move to the specified position

Movement by position number specification

The actuator is operated by turning the I/O signals ON/OFF to specify desired coordinate numbers (position numbers) that have been input to the controller beforehand

3 The ROBOTNET, PCON and ACON controllers can operate actuators based on direct specification of target positions as numerical values

Movement by direct numerical specification

The coordinates of the target position are sent via network to move the actuator to position

Functions

Controller Type	Positioner Type				Program Type			
Controller Series	ROBOTNET	PCON	ACON	SCON	PSEL NEW	ASEL NEW	SSEL	XSEL
External View								
Supported ROBO Cylinders	RCP2/RCP3 RCA/RCA2	RCP2/RCP3	RCA/RCA2	RCS2	RCP2/RCP3	RCA/RCA2	RCS2	RCS2
Number of Positioning Points	768 points*	768 points*	768 points*	512 points	1500 points	1500 points	20000 points	20000 points
Operation Method	Movement by Position number specification	○	○	○	○	○	○	○
	Movement by Direct numerical specification	○	○	○	×	×	×	×

* If the actuator is operated based on movement by direct numerical specification, an infinite number of positioning points can be supported.

(Note) The ROBOTNET, PCON, ACON and SCON are supported by PC software and teaching pendants of RCM-101-MW (PC software) Version 6.0.5.0 or later and CON-T (teaching pendant) Version 1.04 or later, respectively. The PSEL, ASEL, SSEL and XSEL are supported by PC software and teaching pendants of IA-101-X-MW (PC Software) Version 7.2.7.0 or later and SEL-T (teaching pendant) Version 1.02 or later, respectively.

Sold & Serviced By:
ELECTROMATE

Toll Free Phone (877) SERV098
Toll Free Fax (877) SERV099
www.electromate.com
sales@electromate.com

Models

Network Type	Network Symbol	Model	
DeviceNet	DV	PCON-C (CG) - □ - DV - 0 - 0	—
		ACON-C (CG) - □ - DV - 0 - 0	
		SCON-C - □ - DV - 0 - □	
		PSEL-C - □ - □ - DV - 0 - 0	—
		ASEL-C - □ - □ - DV - 0 - 0	
		SSEL-C - □ - □ - DV - 0 - □	
		XSEL - □ - □ - □ - DV - □ - 0 - □	
CC-Link	CC	PCON-C (CG) - □ - CC - 0 - 0	—
		ACON-C (CG) - □ - CC - 0 - 0	
		SCON-C - □ - CC - 0 - □	
		PSEL-C - □ - □ - CC - 0 - 0	—
		ASEL-C - □ - □ - CC - 0 - 0	
		SSEL-C - □ - □ - CC - 0 - □	
		XSEL - □ - □ - □ - CC - □ - 0 - □	
ProfiBus	PR	PCON-C (CG) - □ - PR - 0 - 0	—
		ACON-C (CG) - □ - PR - 0 - 0	
		SCON-C - □ - PR - 0 - □	
		PSEL-C - □ - □ - PR - 0 - 0	—
		ASEL-C - □ - □ - PR - 0 - 0	
		SSEL-C - □ - □ - PR - 0 - □	
		XSEL - □ - □ - □ - PR - □ - 0 - □	
Ethernet	ET	XSEL - □ - □ - □ - ET - □ - 0 - □	—

Specifications

■ DeviceNet

Item	Specification														
Communication Protocol	DeviceNet2.0														
	Group 2 only server														
	Insulated node operated by network power														
Baud Rate	500k/250k/125kbps														
Communication Cable Length	<table border="1"> <thead> <tr> <th>Baud Rate</th> <th>Maximum Network Length</th> <th>Maximum Branch Length</th> <th>Total Branch Length</th> </tr> </thead> <tbody> <tr> <td>500kbps</td> <td>100m</td> <td rowspan="3">6m</td> <td>39m</td> </tr> <tr> <td>250kbps</td> <td>250m</td> <td>78m</td> </tr> <tr> <td>125kbps</td> <td>500m</td> <td>156m</td> </tr> </tbody> </table>	Baud Rate	Maximum Network Length	Maximum Branch Length	Total Branch Length	500kbps	100m	6m	39m	250kbps	250m	78m	125kbps	500m	156m
	Baud Rate	Maximum Network Length	Maximum Branch Length	Total Branch Length											
	500kbps	100m	6m	39m											
	250kbps	250m		78m											
125kbps	500m	156m													
Note) When a thick DeviceNet cable is used															
Communication Power Supply	DC24V (supplied from DeviceNet)														
Current Draw	Typ.30mA / Max.55mA														
Number of occupied nodes	1node														
Connector	MSTBA2.5/5-G-5.08AU by Phoenix Contact ¹⁾														

¹⁾ The connector on cable end is standard accessory.
Phoenix Contact: SMSTB 2.5/5-ST-5.08AU (other than XSEL - P/Q)
MSTB 2.5/5-ST-5.08AU (XSEL - P/Q)

■ CC-Link

Item	Specification												
Communication Protocol	CC-Link Ver1.10 (Other than ROBONET) / Ver 2.0 (ROBONET)												
Baud Rate	10M/5M/2.5M/625k/156kbps												
Communication Method	Broadcast polling method												
Number of occupied stations	ASEL/PSEL/SSEL: Up to 3 remote device stations SCON: 1 remote I/O station ROBONET/ACON/PCON: Up to 4 remote device stations												
Communication Cable Length ¹⁾	<table border="1"> <thead> <tr> <th>Baud rate(bps)</th> <th>10M</th> <th>5M</th> <th>2.5M</th> <th>625K</th> <th>156K</th> </tr> </thead> <tbody> <tr> <td>Total cable length (m)</td> <td>100</td> <td>160</td> <td>400</td> <td>900</td> <td>1200</td> </tr> </tbody> </table>	Baud rate(bps)	10M	5M	2.5M	625K	156K	Total cable length (m)	100	160	400	900	1200
	Baud rate(bps)	10M	5M	2.5M	625K	156K							
Total cable length (m)	100	160	400	900	1200								
Connector ²⁾	Phoenix Contact: MC1.5/5-G-3.81 (SCON) MSTBA2.5/5-G-5.08AU (XSEL, SSEL, ACON, PCON)												

¹⁾ If T-branch communication is to be used, refer to the operation manuals for the master unit and the PLC installed in the master unit.

²⁾ The connector on the cable end is standard accessory.

■ ProfiBus

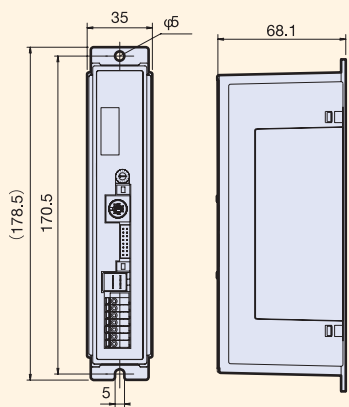
Item	Specification	
Communication Information	DP Slave	
Baud Rate	9.6kbps ~ 12Mbps	
Communication Cable Length	9.6kbps	1500m
	500kbps	400m
	1.5Mbps	200m
	3Mbps	200m
	12Mbps	100m
Connector	D-sub connector, 9 pins, socket	

■ Ethernet

Item	Specification
Network	10BASE-T/100BASE-T (auto negotiation)
Communication Protocol	IEEE802.3
Baud Rate	10/100Mbps
Protocol	TCP/IP message communication (IAI protocol B/TCP, SEL program send/receive) Open Modbus/TCP (remote I/O)
Connector	RJ-45

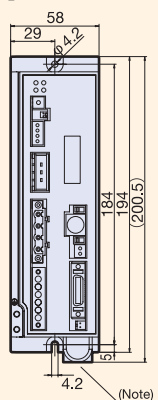
External Dimensions

PCON/ACON

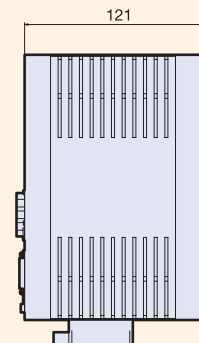
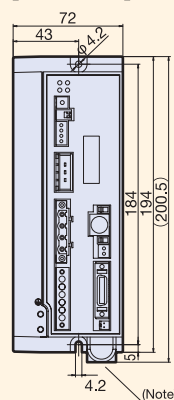


SCON

【Less than 400W】

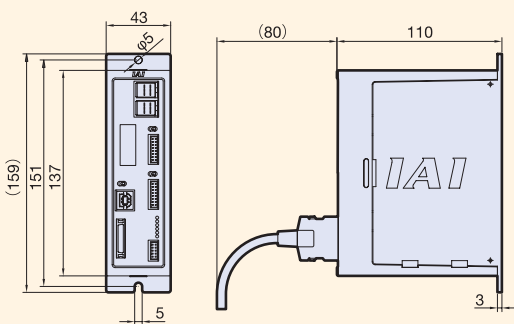


【Over 400W】

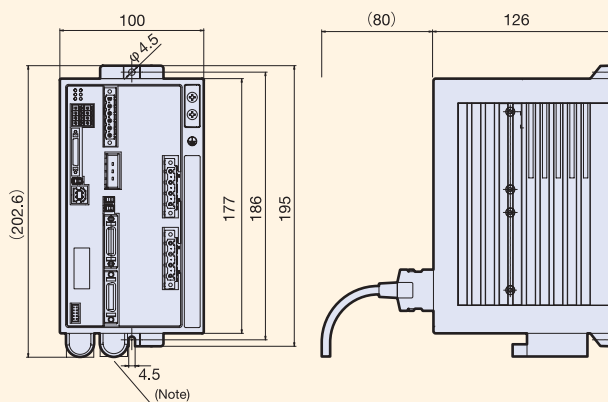


(Note) This is an absolute-date backup battery. It is not provided for incremental specification controllers.

PSEL/ASEL



SSEL



(Note) This is an absolute-date backup battery. It is not provided for incremental specification controllers.