

Field Network Controllers

ROBO Cylinder Position Controller PowerCON 150

POWERCON 150

ROBO Cylinder Position Controller High-thrust Motor Type PCON-CFA

PCON-CA PCON-CFA



PCON Controllers Now Support Field Networks

Supporting seven major field networks

DeviceNet, CC-Link, PROFIBUS-DP, CompoNet, MECHATROLINK (I, II), EtherCAT and EtherNet/IP are supported. Key features include wire-saving, direct numerical specification, position number specification, and current position read.

PCON-CFA for high-thrust motors

	Supported actuators			
PCON-CA	ROBO Cylinder RCP4 / RCP3 / RCP2 series			
PCON-CFA	ROBO Cylinder RCP2-RA8C / RA8R / RA10C / HS8C / HS8R series ROBO Cylinder splash-proof RCP2W-SA16C / RA10C series			

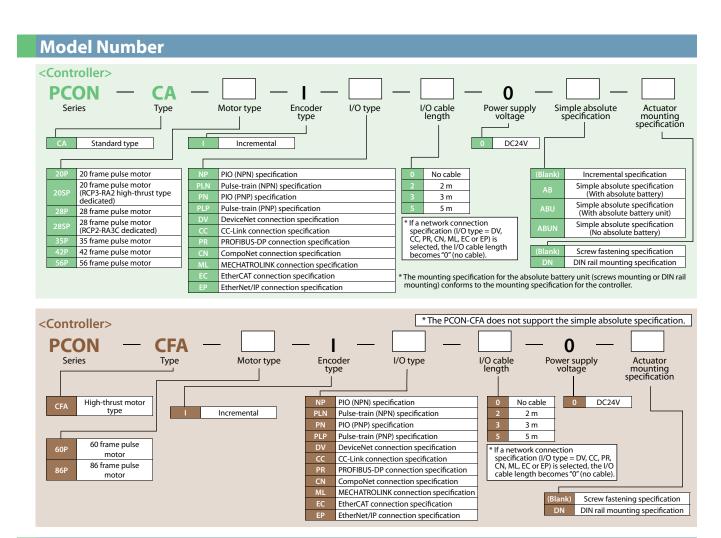
List of Models

ROBO Cylinder Position Controller PowerCON 150 < PCON-CA>

	External view				Transport of the last of the l							
	I/O type				Field network type							
			Positioner type type	Pulse-train	DeviceNet	CC-Link	PROFII® BUS	CompoNet	MECHATROLINK	Ether CAT.	EtherNet/IP>	
				туре	DeviceNet connection specification	CC-Link connection specification	PROFIBUS-DP connection specification	CompoNet connection specification	MECHATROLINK connection specification	EtherCAT connection specification	EtherNet/IP connection specification	
			NP/PN	PLN/PLP	DV	CC	PR	CN	ML	EC	EP	
	Increme specifica		-	-	=	-	-	ı	-	-	=	
<u>e</u>	Simple absolute specification	With absolute battery	-	-	-	-	-	-	-	-	-	
Standard price		With absolute battery unit	-	-	-	-	-	-	-	-	-	
Ŋ		No absolute battery	-	-	-	-	-	-	-	-	-	

ROBO Cylinder Position Controller High-thrust Motor Type <**PCON-CFA**>

	Extern	al view										
Ī	I/O type		Positioner type	Pulse-train type	Field network type							
					DeviceNet	CC-Link	PROFT® BUS	CompoNet	MECHATROLINK	Ether CAT.	EtherNet/IP>	
					DeviceNet connection specification	CC-Link connection specification	PROFIBUS-DP connection specification	CompoNet connection specification	MECHATROLINK connection specification	EtherCAT connection specification	EtherNet/IP connection specification	
Ī	I/O type model code		NP/PN	PLN/PLP	DV	CC	PR	CN	ML	EC	EP	
	Standard price	Incremental specification	-	-	-	-	-	-	-	-	-	



Specification Table

ltem				Description					
				PCON-CA PCON-CFA					
Number of controlled axes				1 axis					
Power supply voltage				24 VDC ± 10%					
Load capacity			20P, 28P, 28SP	1A max.					
(Current	RCP2 RCP3	Motor type		2.2A max.					
consumption of controlled	100		60P, 86P		6A max.				
axes included)	DCD4	Motor type	42D 56D	High-output setting disabled: 2.2 A max.					
(Note 1)	RCP4	wotor type	42P, 30P	High-output setting enabled: 3.5 A rated / 4.2 A max.					
Power supply for e (for actuators with	electron brake)	nagnetic bra	ke	24 VDC ± 10%, 0.15 A (max.)					
Rush current (Note	e 2)			8.3 A	10 A				
Momentary powe	r failure	resistance		500 μs max.					
Applicable encode	er			Incremental encoder of 800 pulses/rev in resolution					
Actuator cable len	gth			20 m max.					
External interface		PIO specific		Dedicated 24-VDC signal input/output (NPN or PNP selected) Up					
External interrace		Field netwo	rk specification	DeviceNet, CC-Link, PROFIBUS, CompoNET, MECHATROLINK, EtherCAT, EtherNet/IP					
Data setting/input		d		PC software, touch-panel teaching pendant					
Data retention me	mory			Position data and parameters are saved in the non-volatile memory (The memory can be written any number of times.)					
Operation modes				Positioner mode / Pulse-train control mode (Selectable by parameter setting)					
Number of positions in positioner mode			de	Up to 512 points for the positioner type, up to 768 points for the network type (Note) The number of positioning points varies depending on the PIO pattern selected.					
		Input pulse		Differential method (line driver method): 200 kpps max. / Cable length: 10 m max.					
				Open collector method: Not supported * If the host uses open-collector output, convert the open-collector pulses to differential pulses using the AK-04 (available as an option).					
Pulse-train interfa	ce	Command p magnification (electronic of		1/50 < A/B < 50/1 Setting range of A and B (set by parameters): 1 to 4096					
		Feedback p	ulse output	None					
Isolation resistanc	e			500-VDC 100 MΩ or more					
Electric shock prot	tection	mechanism		Class I basic isolation					
Mass		Incremental specification		Screw fastening type: 250 g or less DIN rail securing type: 285 g or less	Screw fastening type: 270 g or less DIN rail securing type: 305 g or less				
(Note 3)			lute specification ttery weight	Screw fastening type: 450 g or less DIN rail securing type: 485 g or less					
Cooling method				Natural air cooling Forced air cooling					
		Ambient operating temperature		0 to 40°C					
Environment		Ambient operating humidity		85%RH or less (non-condensing)					
		Operating a	mbience	Not exposed to corrosive gases					
		Protection o	legree	IP20					

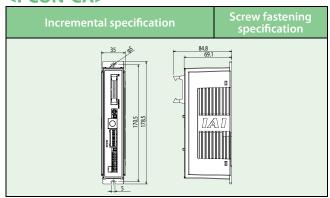
Note 1) The value increases by 0.3 A for the field network specification.

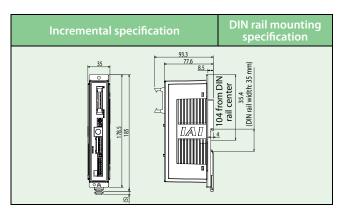
Note 2) After the power is turned on, rush current will flow for approx. 5 msec (at 40°C). Take note that the rush current varies depending on the impedance of the power-supply line.

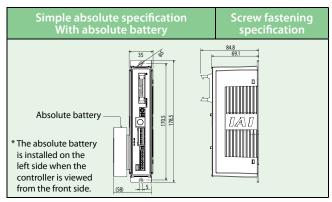
Note 3) The value increases by 30 g for the field network specification.

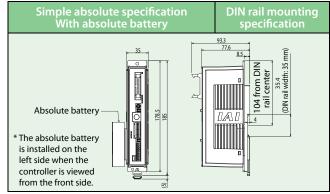
External Dimensions

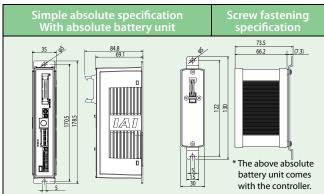
<PCON-CA>

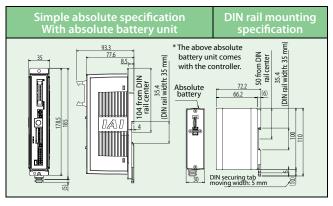




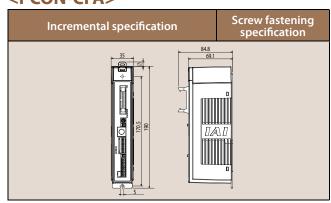


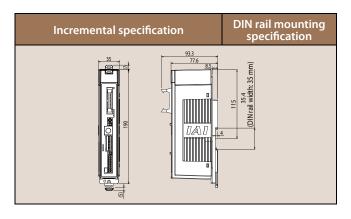






<PCON-CFA>





IAI America, Inc.

Headquarters: 2690 W. 237th Street Torrance, CA 90505 (800) 736-1712 **Chicago Office:** 1261 Hamilton Parkway Itasca, IL 60143 (800) 944-0333

Atlanta Office: 1220 Kennestone Circle, Suite 108, Marietta, GA 30066 (888) 354-9470

IAI Industrieroboter GmbH

Ober der Roth 4, D-65824 Schwalbach am Taunus, Germany



