


### For Electric Actuators Controller ESC4 Series



*Easy*  to use  
just became more  
user friendly!

**NEW** Controller

**ROBODEX** Pulse



Manual operation mechanism added 

Easy adjustment



Manual operation mechanism  
of JOG operation and alarm  
reset added

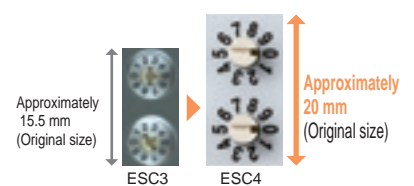


Improved rotary switch operation 

Easy adjustment



Improved visibility  
and operability



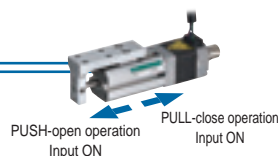
Operation is possible with 3 input signals 

Easy Controls



**Controller ESC4**

- [I/O input]
- PULL/closing operation input
- PUSH/Opening operation input
- Operation input COM
- Alarm reset input
- Alarm reset input COM



Easy replacement   

Easy maintenance



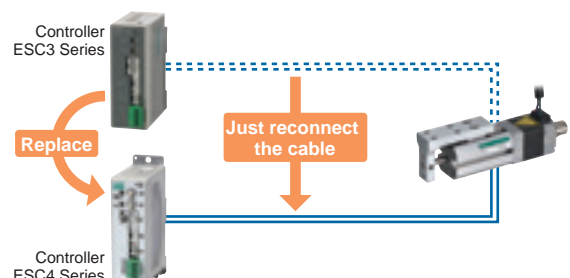
Reduced work hours



High versatility



Can be replaced without the need for dedicated tools



**CKD Corporation**

CC-1635A

How to order



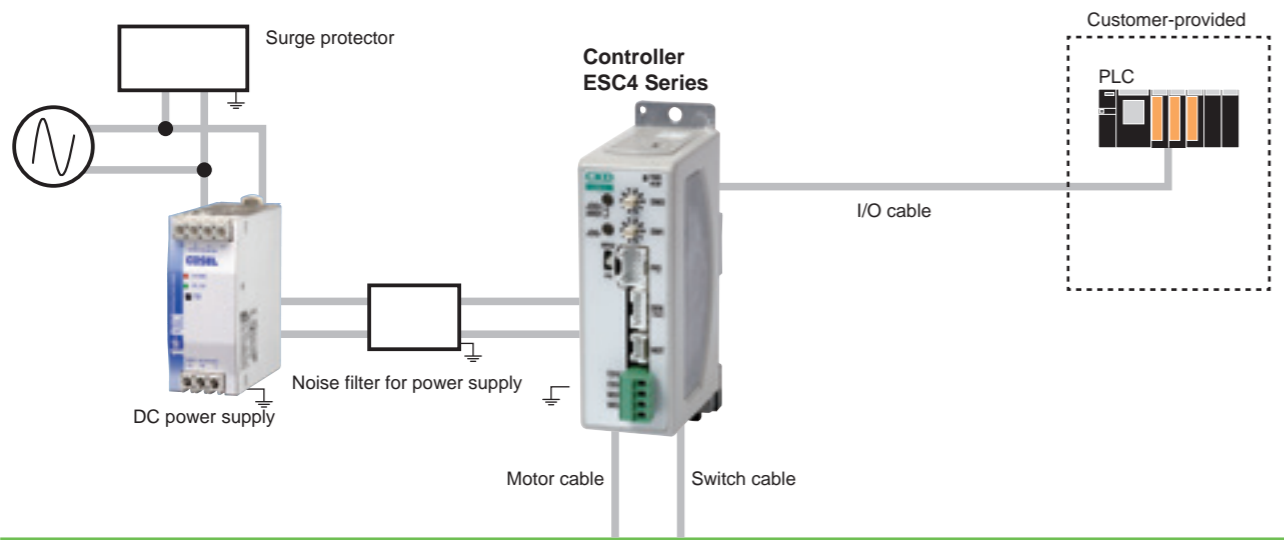
ESC4 - D P - 01 20 - 06 100

1 2 3 4 5

①Controller mounting method	②Model group	③Actuator size	④Actuator lead *2	⑤Actuator Stroke*3
D DIN rail mount	01 DSSD2	08 8	NN None	NNN None
P Panel mount	02 DSTK	16 16	06 6 mm	010 10 mm
	03 DSTG	20 20	09 9 mm	020 20 mm
	04 DSTS	32 32	12 12 mm	025 25 mm
	05 DSTL	50 50		030 30 mm
	06 DMSDG			050 50 mm
	07 DLSH			075 75 mm
	08 DCKW			100 100 mm
				150 150 mm
				200 200 mm

1. Actuator type can also be selected.  
2. Select "None" when 06 (DMSDG), 07 (DLSH), or 08 (DCKW) is selected for the model group.  
3. Select "None" when 07 (DLSH) or 08 (DCKW) is selected for the model group.

System configuration



\*Refer to the Instruction Manual for details about how to install and wire the noise filter and surge protector.

General specifications

Item	Description
Settings tool	Rotary switch 1, rotary switch 2, control mode changeover switch, operation mode changeover switch, JOG(+) / alarm reset switch, JOG(-) switch
Indicator lamp	Green ON: Motor in energized state, green blinking: Motor in un-energized state, manual operation mode Red ON: System alarm generated, red blinking: Operation alarm generated, or warning generated
Withstand voltage	500 VAC for 1 minute
Degree of protection	IP20
Weight	Approx. 180 g

\*Only changes to specifications are shown. Refer to the specifications of controller ESC3 in catalog CC-1591A for other specifications.

Parallel I/O (PIO) input/output specifications

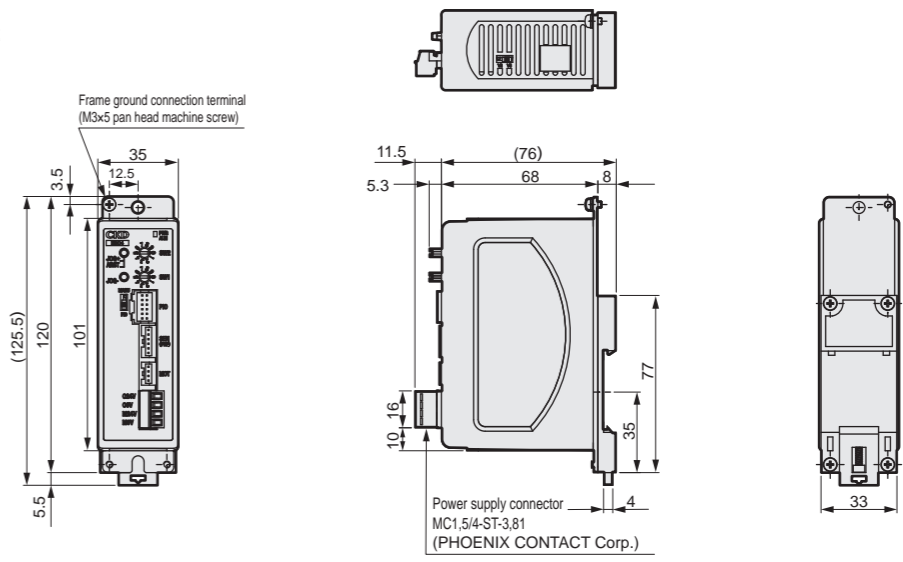
Input specification		Output specifications	
Item	ESC4	Item	ESC4
Input current	4 mA/point	Load current	9 mA/point
Input current when ON	3 mA or more	Internal voltage drop when ON	6 V or less

\*Only changes to specifications are shown. Refer to the specifications of controller ESC3 in catalog CC-1591A for other specifications.

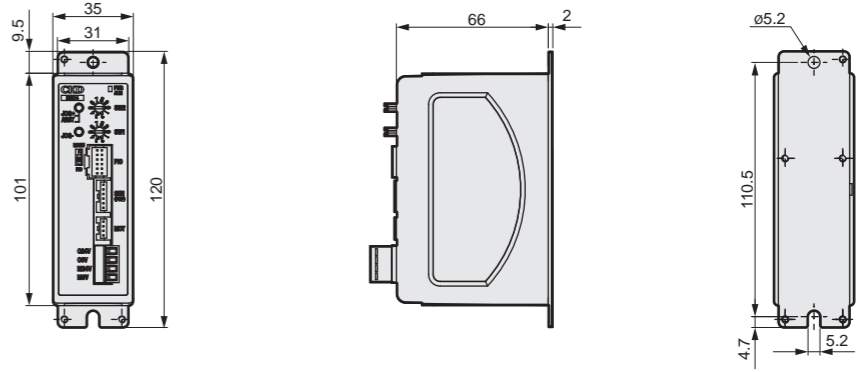
\*For the wiring diagram, circuit, etc., refer to the specifications of controller ESC3 in catalog CC-1591A.

Dimensions

DIN rail mount

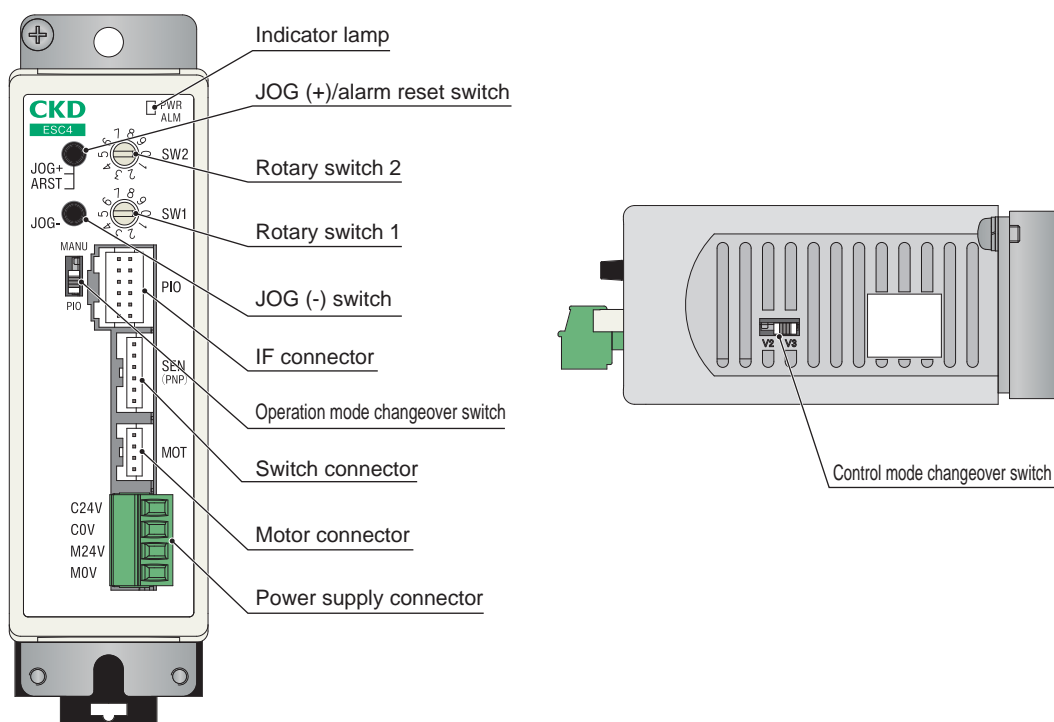


Panel mount

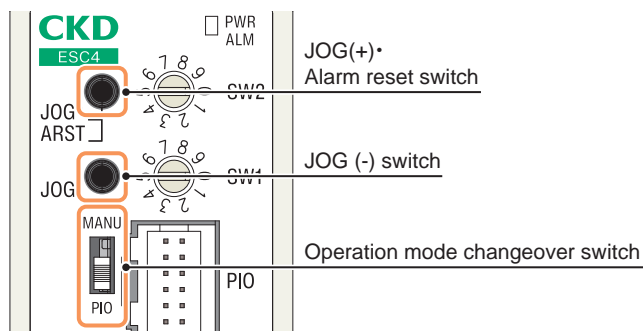


## Additional functions

### Panel



### Operation mode changeover switch



Code	Operation mode	Overview
MANU	Manual	This mode operates the actuator with the JOG (+) switch and JOG (-) switch on the controller front. This can be used for trial run or when adjusting the position of the cylinder switch, etc. Input signal from the PLC cannot be received during this operation mode. When an alarm occurs, the JOG (+) switch can be used as an alarm reset switch.
PIO	PIO	Mode in which the actuator is operated using an input signal from the PLC. During this operation mode, the JOG (+), alarm reset switch and JOG (-) switch on the controller front cannot be received.

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