

PEX type Electric Actuator Specifications

FEATURE

The powerful electric actuator built in high speed brushless motor and non-contact potentiometer with high reliability and proportional motor.

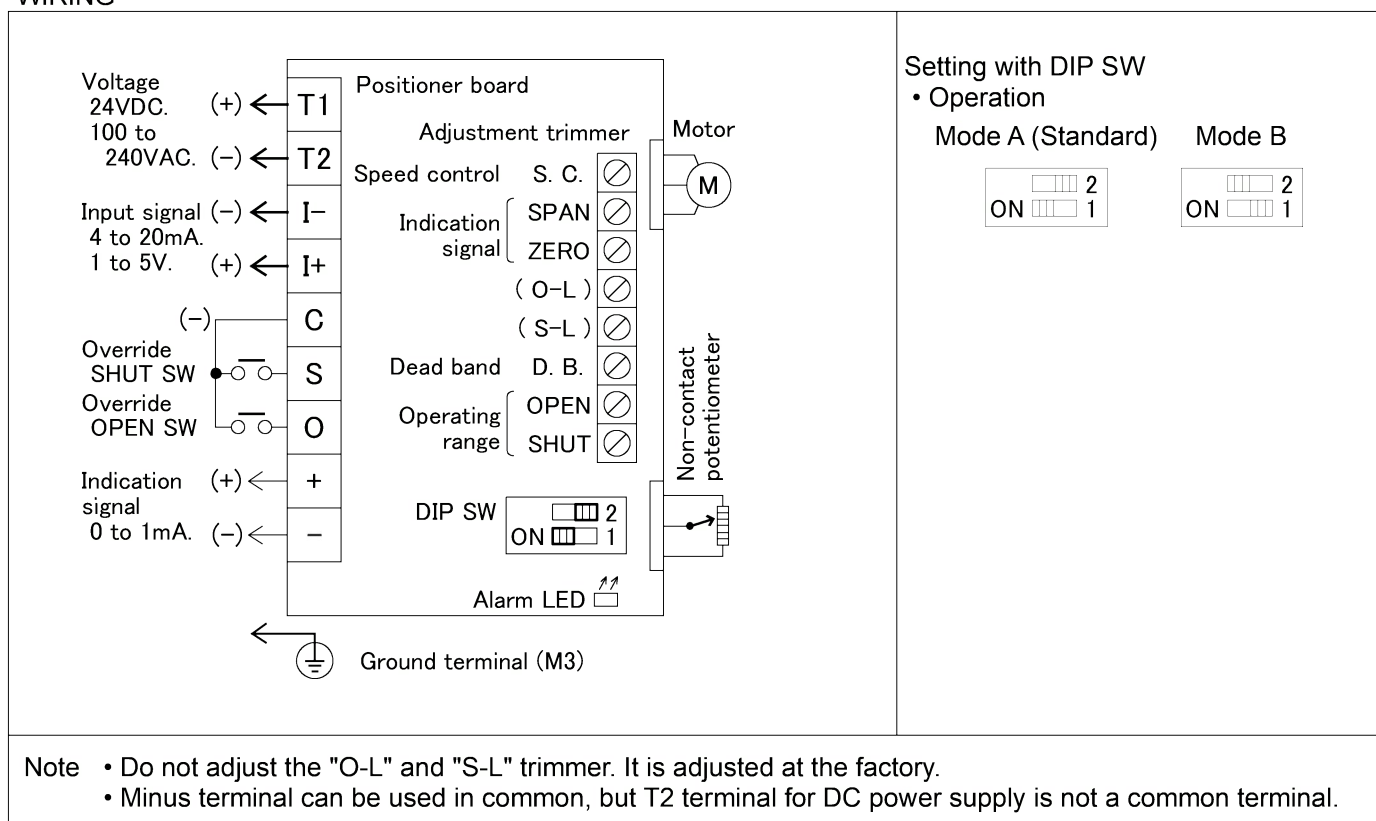
SPECIFICATION

Actuator type (□:Voltage code)	PEX-120-□	PEX-300-□	PEX-700-□
Voltage	100 to 240 V AC $\pm 10\%$ 50/60 Hz (Code: 6) 24 V DC $+20\% \sim -10\%$ (Code: 0) Cannot use a half or full-wave DC power supply.		
Rated torque [N·m]	10	21	50
Operation time [s]	2.5 to 4 (Max 12)	6 to 9 (Max 34)	12 to 18 (Max 68)
	The operation time is the time when it is operated by the override switch. Operation time with the override switch cannot be adjusted with S.C. trimmer. At factory shipment, the S.C trimmer is set to the fastest position.		
Power consumption [VA]	AC power 80 DC power 50		
Motor	Brushless DC motor (PWM Control)		
Overload protection	Current limiter		
Method of operation	Proportional control		
Input signal	4 to 20 mA / 1 to 5 V (Input resistance: 250 Ω)		
Operation *1	[Mode A] SHUT by decreased signal \leftrightarrow OPEN by increased signal (Standard) [Mode B] SHUT by increased signal \leftrightarrow OPEN by decreased signal (Option: J) [Forced open / shut] It takes priority over the input signal. C-S is ON \rightarrow SHUT C-O is ON \rightarrow OPEN Common in mode A / B		
Indication signal	0 mA : SHUT \leftrightarrow 1 mA : OPEN (External load resistance: less than 3 k Ω) Common in mode A / B		
Override switch	It takes priority over the input signal. Common in mode A / B Dry contact / Transistor, Open collector. (Input signal current: 6 mA 15V DC)		
Operating range	SHUT: 0 to 40 % OPEN: 50 to 100 %		
Resolution	Less than 0.2 %		
Duty cycle	100 %		
Ambient temperature	-20 to 55 °C		
Space heater	3 W		
Manual operation	Manual shaft		
Enclosure	Equivalent to IP65 (IEC 60529)		
Housing material	Aluminum alloy die cast (acrylic resin baking finish)		
Wire connection	Terminal Block: M3, Ground terminal: M3		
Conduct port	2-G1/2 Attachments: Cable gland (for $\Phi 6$ to 12 mm cable), plug.		

3 way valve: SHUT / Position①, OPEN / Position②

*1 Change by DIP switch. (Standard \rightarrow Mode B)

WIRING



Adjustment of the control range

- For better control, it is necessary to select the valve size and adjust the control range of the valve for the input signal.
 - When setting the maximum flow rate, open side opening can be adjusted with OPEN trimmer.
- When setting the minimum flow rate, the opening degree of the closing side can be adjusted with the SHUT trimmer.

Operate of the Forced SHUT / OPEN SW

- If forced open point and a close point of contact are turned on, priority will be given over an input signal and a valve is going to be carried out full open and close.
- When the override OPEN/SHUT switch is ON at the same time, the valve holds the current opening.

Valve control adjustment range

