

## PAX type Electric Actuator Specifications

### FEATURE

A light weight, compact and long service life electric actuator built in high reliability and proportional motor.

### SPECIFICATION

Actuator type (□:Voltage code)	PAX-050-□	PAX-120-□
Voltage	100 / 110 V AC ±10 % 50/60 Hz (Code: 1) 200 / 220 V AC ±10 % 50/60 Hz (Code: 2)	
Rated torque [N·m]	5	12
Operation time [s]	14 / 12 (50/60 Hz)	30 / 25 (50/60 Hz)
Power consumption [VA]	9.5	
Motor	Synchronous motor (Triac control)	
Overload protection	Impedance protect	
Method of operation	Proportional control	
Input signal	4 to 20 mA / 1 to 5 V (Input resistance: 250 Ω)	
Operation <sup>*1</sup>	[Mode A] SHUT by decreased signal ↔ OPEN by increased signal (Standard) [Mode B] SHUT by increased signal ↔ OPEN by decreased signal (Option: J)	
Indication signal	0 mA : SHUT ↔ 1 mA : OPEN (External load resistance: less than 3 kΩ) Common in mode A / B	
Resolution	Less than 0.2 %	
Duty cycle	100 %	
Ambient temperature	-20 to 55 °C	
Space heater	1 W	
Manual operation	Direct operation of actuator by loosening lock screw	
Enclosure	Equivalent to IP65 (IEC 60529)	
Housing material	Aluminum alloy die cast + Polycarbonate resin cover	
Terminal block	For bare wire 0.2 to 1.5 mm <sup>2</sup> (AWG 26 to 16) Ground terminal: M3	
Conduct port	G3/8 Cable gland (for Φ5 to 10.5 mm cable)	

3 way valve: SHUT / Position①, OPEN / Position②.

<sup>\*1</sup> Change by DIP switch. (Standard → Mode B)

### WIRING

**Setting with DIP switch**  
Mode A / B is selected simply by setting the mode change DIP switch located on built-in control board.

Mode A

Mode B

**Adjustment of dead band**  
Adjustment of dead band is useful to prevent hunting of the actuator. Turning D.B. trimmer clockwise increase the dead band range.

**Note)**

- Input signal circuit is non-isolated. Do not connect DC (-) wire to other DC (-) common.
- Do not adjust operating angle of a valve (OPEN/SHUT trimmer). Please contact us if you need to adjust operating angle.