

SP017X-032E

P: FZ

Low Profile Single-Axis Electric Actuator

with Mitsubishi AC Servomotor

with Photomicrosensor

LG1H21R-X7

Feature 1: Fitted with Mitsubishi AC servomotor. (Mitsubishi: Mitsubishi Electric Corp.) (Refer to table below for applicable motors.)

Feature 2: A photomicrosensor can be installed on the outside of the actuator.

Specifications

Electric Actuator Stroke: mm 100 200 300 400 500 600 700 800 900 1000 1200 Mounting orientation Horizontal 5 to 40°C Operating temperature range Lead: 10mm 30 Ball screw Payload Lead: 20mm 30 kq Slide screw 15 Lead: 20mm 500 460 370 300 250 Lead: 10mm Ball screw Maximum Lead: 20mm 1000 930 740 600 500 speed: mm/s 500 Slide screw Lead: 20mm Rolled ± 0.05 Positioning Ball screw repeatability ± 0.02 Ground : mm ±0.1 Slide screw Rolled Ø15mm, lead 10mm Ball screw Rolled, Ground Screw Ø15mm, lead 20mm Ø20mm, lead 20mm Rolled Slide screw High rigidity direct acting guide Guide N.C. type: EE-SPX402-W2A (Manufacturer: OMRON) Photomicrosensor N.O. type: EE-SPX304-W2A (Manufacturer: OMRON)

Applicable motors (*1)

Manufacturer	Motor output	Power supply voltage	Motor specification	No.	Motor part no.	Driver part no.	
Mitsubishi Electric Corp.	100W	100/115VAC	R	1	HC-PQ13	MR-C10A1	
			RF	3	HC-MF13	MR-J2-10A1	
		200/230VAC	R	4	HC-PQ13	MR-C10A	
			RF	6	HC-MF13	MR-J2-10A	

Photomicrosensor (Manufacturer: OMRON) (*2)

Model	EE-SPX402-W2A	EE-SPX304-W2A		
	Light enters: ON	Light blocked: ON		
Output type and controlled output	NPN voltage output Load power voltage: 5 to 24VDC Load current: 80mA or less Residual voltage: 1.0V or less (load current at 80mA) Residual voltage: 0.4V or less (load current at 10mA)			
Detection distance	3.6mm (Slot width)			
Standard detection distance	1 × 0.5mm or more of opaque plate			
Indicator light	Light up when light enters (Red)			
Power supply voltage	5 to $24VDC \pm 10\%$, ripple (p-p) 5% or less			
Response frequency	500Hz			

*1) Refer to Mitsubishi technical data for detailed motor specifications.

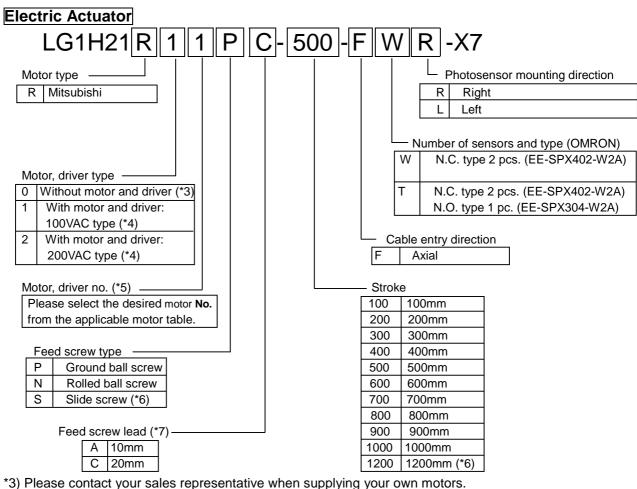
*2) Refer to OMRON catalog for detailed sensor specifications. Adjustment of a sensor position and wiring should be performed by customers.

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How to Order

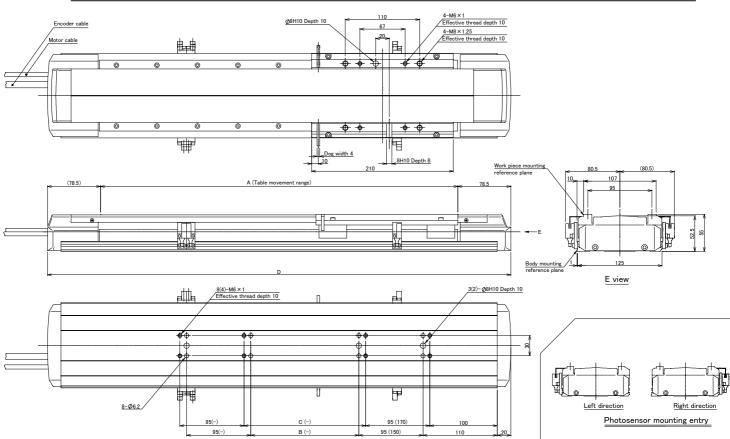


- *4) A driver unit will be included if the motor is already installed at the time of shipment.
- The cable for connecting a motor and driver unit is optional. (Refer to "How to Order Cable".) *5) A data setting tool will not be included.
- *6) A stroke length of 1200mm is available only with slide screws (Symbol: S).
- *7) Slide screw type is available only with a 20mm feed screw lead.

How to Ord	er Cable (*8)					
	LJ1-′	1-RF 05				
Manufacturer and series of motor RF Mitsubishi						
Applicable ca	Cable length 05 5m ables (Details)					
LJ1-1-RF05	MR-JCCBL5M-L	(for motor) (*8) (for encoder)				

^{*8)} Cable for Mitsubishi motor is not available. Use 4-core × 0.75mm² cable instead.

Dimensions: mm



Dimensions: mm Dimensions inside () in the drawings above are for 100mm stroke.

Model	Stroke	А	В	С	D
LG1H21R****-100-F**-X7	100	329	—		486
LG1H21R***-200-F**-X7	200	429	60	80	586
LG1H21R***-300-F**-X7	300	529	160	180	686
LG1H21R***-400-F**-X7	400	629	260	280	786
LG1H21R***-500-F**-X7	500	729	360	380	886
LG1H21R****-600-F**-X7	600	829	460	480	986
LG1H21R***-700-F**-X7	700	929	560	580	1086
LG1H21R****-800-F**-X7	800	1029	660	680	1186
LG1H21R***-900-F**-X7	900	1129	760	780	1286
LG1H21R***-1000-F**-X7	1000	1229	860	880	1386
LG1H21R**SC-1200-F**-X7	1200	1429	1060	1080	1586

Note 1: This product uses the same aluminum alloy frame and the guide as the ones for standard LG1. Refer to our Electric Actuator catalog (CAT.E101) for allowable moment and deflection data.

▲ Caution

To ensure the safe operation of this product, please read the Safety Instructions of our Electric Actuator catalog (CAT. E101) thoroughly. Please contact your SMC sales representative about technical details related to our other actuators.

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