

Electric Actuator Table Type

ELCR Series

● Motor size: □28, □42



Specifications

Descriptions		ELCR Series			
Actuator type		Table type			
Motor		Stepping motor			
Encoder type		Incremental type			
Drive system		Slip screw + belt			
Motor size	mm	□28	□42		
Screw lead	mm	6	6	12	24
Stroke length	mm	50, 100	50, 100, 150		
Range of operation speed	mm/s	15 to 100	15 to 100	30 to 200	60 to 400
Speed of origin returning	mm/s	15	15	30	60
Accuracy of repeated positioning	mm	±0.05	±0.05	±0.1	±0.2
Lost motion	mm	0.4 or less	0.4 or less	0.5 or less	0.6 or less
Max. load capacity *1	Horizontal kg	4.5	7	7	7
	Vertical kg	1	7	4	1
Maximum press fitting force	N	10 or over	120 or over	60 or over	30 or over
Setting method		Setting by the teaching pendant			
Control mode *4		Solenoid valve mode (single type, double 2-position type, double 3-position type)			
		7-point positioning mode			
		Pitch transfer mode			
Indicator light (LED)		Green: Operation (Blinking: Operation in preparation), Red: Alarm			
Number of input points		7 points (photo-coupler insulation)			
Number of output points		7 points (photo-coupler insulation)			
Motor power supply voltage		24 VDC ± 10%			
Instantaneous maximum current on the motor *3		4 A	3 A		
Average current on the motor *2		0.8 A	1.1 A		
Control power supply voltage		24 VDC ± 10%			
Current consumption by controller		200 mA or less (including the case when the teaching pendant is connected)			
Insulation resistance		50 MΩ or higher in 500-VDC megger			
Withstand voltage		No abnormality for 1 minute with 1000 VAC			
Operating ambient temperature °C		0 to 50 (no condensation or freezing)			
Operating ambient humidity %		35 to 85 (no condensation or freezing)			
Storage ambient temperature °C		-20 to 60 (no condensation or freezing)			
Storage ambient humidity %		35 to 85 (no condensation or freezing)			
Atmosphere		No corrosive gas			
Degree of protection		Equivalent to IP40 of IEC standard (with protection covers on LAN ports)			

*1: The maximum load capacity becomes lower for higher speeds. For details, see the table (page 15) and the graph of technical document ② Vertical Load Capacity and Horizontal Load Capacity.

*2: The average current is the current (reference value) at the maximum speed with the maximum load capacity.

*3: Use a power supply having an enough allowance for the instantaneous maximum current.

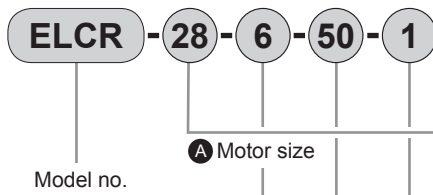
*4: The factory setting is the solenoid valve mode (double 2-position type).

Weight

(kg)

Descriptions	50st	100st	150st
□28	1.3	1.6	-
□42	2.1	2.5	2.9

How to order



Symbol	Description		
A Motor size			
28	□28		
42	□42		
B Lead			
Motor size		28	42
6	6 mm	●	●
12	12 mm		●
24	24 mm		●
C Stroke length			
Motor size		28	42
50	50 mm	●	●
100	100 mm	●	●
150	150 mm		●
D Cable length			
1	1 m		
3	3 m		

● Teaching pendant



● Available cylinder switches



Lead wire axial	Lead wire radial	Contact	Indicator	Lead wire quantity	
T2H*	T2V*	Proximity	1 color indicator	2 wire	
T3H*	T3V*			3 wire	
T2WH*	T2WV*			2 wire	
T2WH*	T3WV*		2 color indicator		3 wire
T2YH*	T2YV*				2 wire
T3YH*	T3YV*				3 wire
T2YD*	-				2 wire

* indicates the lead wire length.

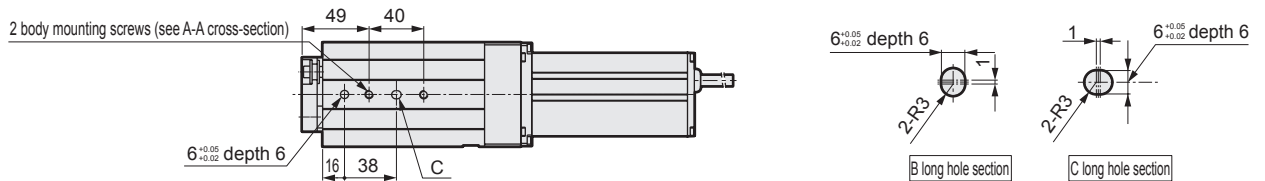
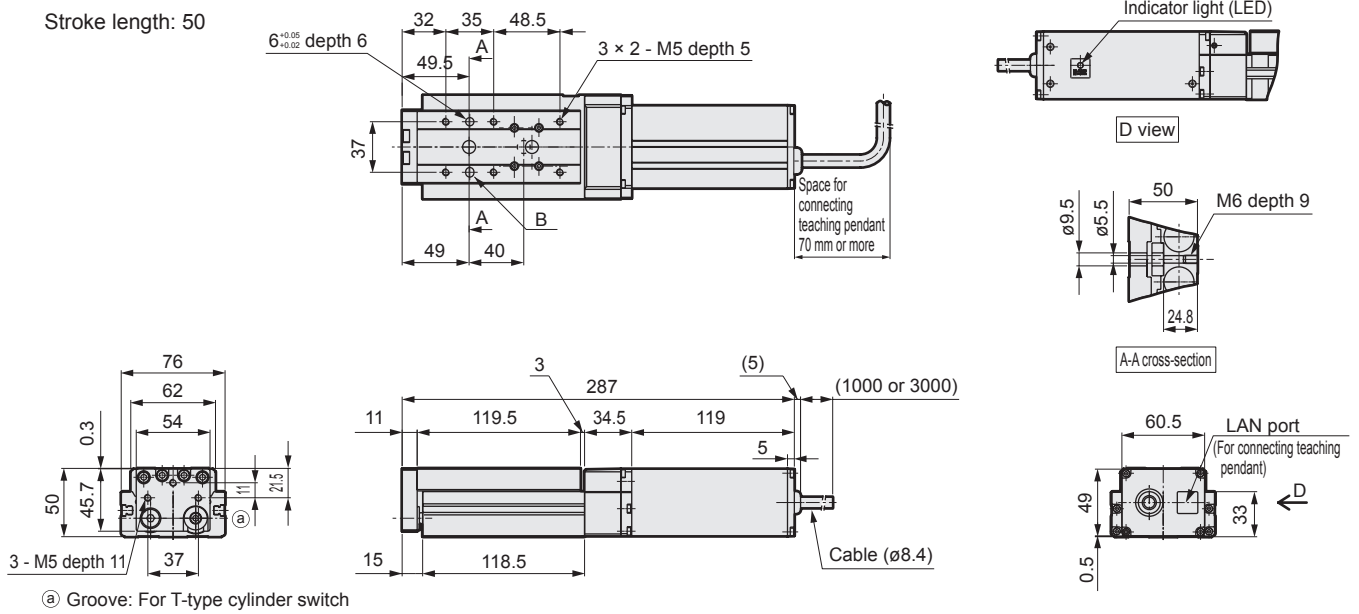
* Lead wire length	
Blank	1 m (standard)
3	3 m (option)
5	5 m (option)

*For details of cylinder switches, see Pneumatic Cylinder I (catalog No. CB-029S).

Dimensions

● ELCR-42

Stroke length: 50



● ELCR-42

Stroke length (st): 100, 150

