

ESSD Series

Motor size: □28, □42, □56



Specifications

Opecinications						
Descriptions		ESSD				
Actuator type	Rod type					
Motor	Stepping motor					
Encoder type			Increme	ntal type		
Drive system			Slip s	screw		
Motor size mm	□28	□28 □42 □56			56	
Screw lead mm	6	6	12	24	6	12
Stroke length mm	50, 100, 150, 200					
Range of operation speed mm/s	15 to 100	15 to 100	30 to 200	60 to 400	15 to 100	30 to 200
Speed of origin returning mm/s	15	15	30	60	15	30
Accuracy of repeated positioning mm	±0.05	±0.05	±0.1	±0.2	±0.05	±0.1
Lost motion mm	0.4 or less	0.4 or less	0.5 or less	0.6 or less	0.4 or less	0.5 or less
Max. load capacity*1 Vertical kg	1.5	11	5	1	25	15
Maximum press fitting force N	30 or over	150 or over	70 or over	30 or over	450 or over	250 or over
Setting method	Setting by the teaching pendant					
Solenoid valve mode (single type, double 2-position type, double 3-position type) Control mode *4 7-point positioning mode			e)			
	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 4 A			A		
Average current on the motor *2	0.8 A 1.1 A 1.2 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 M Ω 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 conde	nsation 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.

Weight

vveignt (kg)				
Descriptions	50st	100st	150st	200st
□28	0.8	1.0	1.1	1.2
□42	1.4	1.6	1.8	2.0
□56	2.9	3.3	3.6	3.9

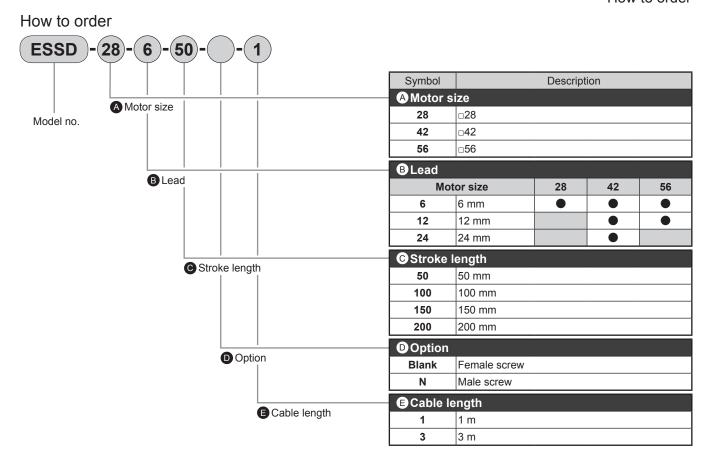
^{*2:}The average current is the current (reference value) at the maximum speed with the maximum load capacity.

^{*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).



How to order



Teaching pendant

Available cylinder switches

SW-	T2	2H	

Lead wire	Lead wire	Contact	Indicator	Lead wire
axial	radial	Contact	indicator	quantity
T2H*	T2V*		1 color indicator	2 wire
T3H*	T3V*	Proximity	1 Color indicator	3 wire
T2WH*	T2WV*			2 wire
T3WH*	T3WV*			3 wire
T2YH*	T2YV*		2 color indicator	2 wire
T3YH*	T3YV*			3 wire
T2YD*	-			2 wire

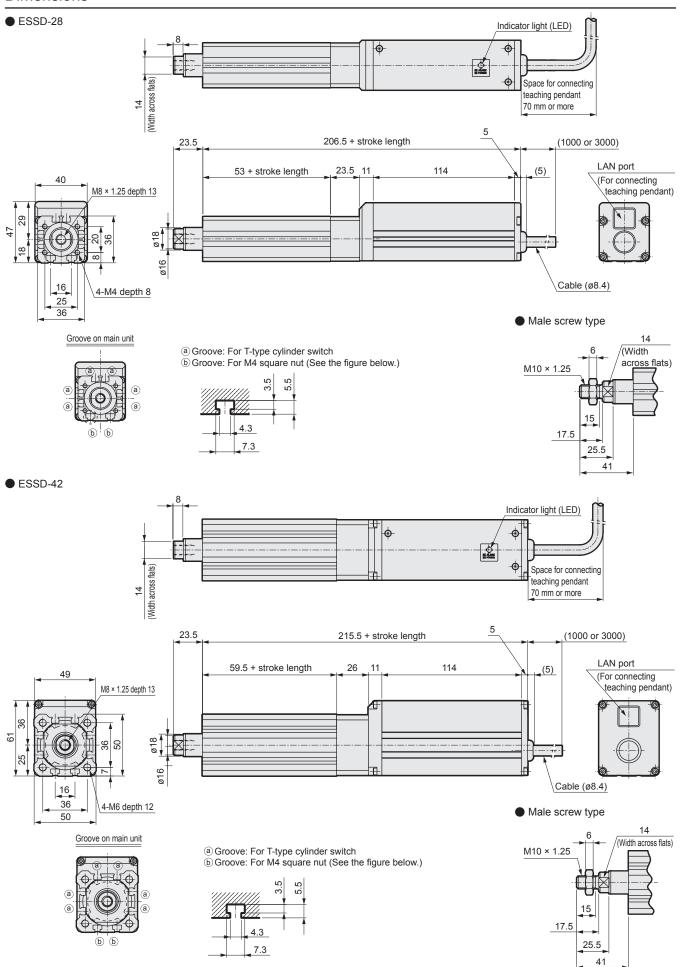
^{*} indicates the lead wire length.

* Lead wire length			
Blank	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).

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Dimensions





Dimensions

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