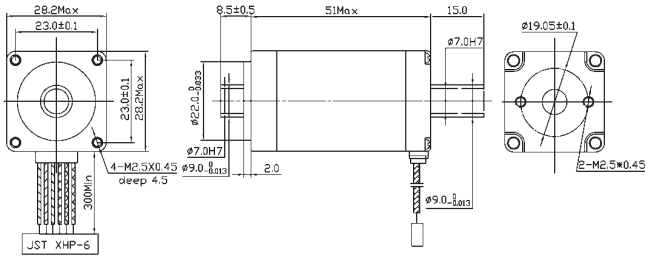
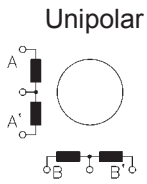
High Torque Linear-Actuator L28, L42

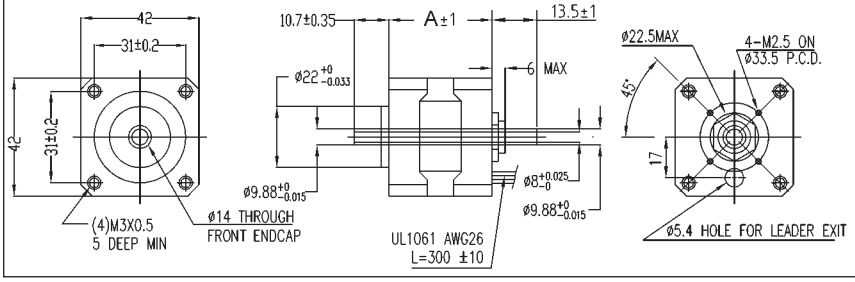
The combination of a high-torque stepper motor with a screw of 2 and 5 mm pitch not only gives the L28 and L42 linear actuators an extremely high actuating speed (or extremely short setting times) but, in its compact form, also supports high thrust and tensile forces.
With the matching SMC microstep drivers, resolutions up to <0.01 mm/step are possible and thus the linear motors are extremely well suited for precision linear axes. As a result of the relatively good screw efficiency of >0.5, even higher service lives were achieved in addition to improved performance.
For position feedback, the linear actuators are also available with attached encoder or encoder plus line driver (refer to accessories).

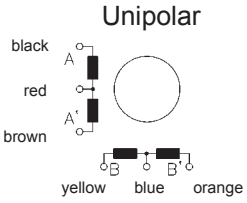
L2818..

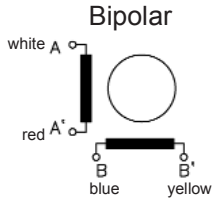




L4218..







Matching threaded screws and lubrication notes for the integral PEEK nut will be found under Accessories.
(Please order screw separately)

Available sizes (others on demand)

Type	Thrust F max	Thrust F min	Feed at... max F	Feed at... min F	Resolution	Current/ Winding	Resistance	Inductance	Weight	Length "A"	Leads
	N	N	mm/s	mm/s	mm/step	A	Ohm/Wind.	mH	kg	mm	
	---------- Values Full Step ----------					---- Values Unipolar ----					
L2818L1006 -T5x5	40	10	10	300	0.025	0.95	4.4	1.8	0.2	51	6
L4218S1406-M6x1	75	25	5	40	0,005	1.4	1.7	1.6	0.2	33	6
-T6x2	175	50	15	80	0,010						
-T5x5	65	20	30	200	0,025						
-T20x20	15	5	120	800	0,100						
L4218M1404-M6x1	100	50	15	50	0,005	1.4	1.21	1.7	0.25	39	4
-T6x2	200	100	25	100	0,010						
-T5x5	80	40	60	250	0,025						
-T20x20	20	10	240	1000	0,100						
L4218L1806-M6x1	200	50	5	20	0,005	1.8	1.9	1.65	0.33	47	6
-T6x2	300	100	8	40	0,010						
-T5x5	180	40	20	100	0,025						
-T20x20	45	10	80	400	0,100						