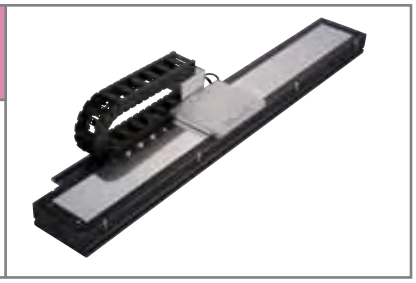
LSA-N15SS

Medium type Actuator width: 150 mm
Standard type Single-slider



Model Specification Items

LSA – N15SS – I – 200S – ☐ – T2 – ☐ – ☐

Series	Type	Encoder model	Corresponding driver output	Stroke	Applicable controllers	Cable length	Options
LSA	N15SS	I: Incremental specification	200S: 200W	150: 150 mm ~ 4150: 4150 mm (every 100 mm)	T2: SCON, SSEL, XSEL-P/-Q	N: None, S: 3 m, M: 5 m, X☐☐: Specified length	Refer to the option table below.

* For contents of the model specification items, refer to page 2.

Model Number/Specification

Model number	Encoder model	Corresponding driver output (W)	Stroke Every 100 mm (mm)	Speed (Note 1) (mm/s)	Payloads (Note 2)		Rated thrust (N)	Maximum thrust (N)	Maximum acceleration (G) (Note 2)
					Horizontal (kg)	Vertical (kg)			
LSAS-N15SS-I-200S-①-T2-②-③	Serial encoder, quasi-absolute	200S	150~4150	1~2500	20	–	86	Refer to P5	3

* In the above model number, ① represents the stroke, ② represents the cable length, and ③ represents the selected option(s).

Option

Name	Model number	Page	Remarks
Cable track installation direction	CT2~4	→ P2	Installation direction 2 to 4
User cable track, S type	US1~US4	→ P2	Installation direction 1 to 4
User cable track, M type	UM1~UM4	→ P2	Installation direction 1 to 4

Common Specifications

Drive method	Linear servo motor
Positioning repeatability	±0.005 mm
Allowable dynamic moment (Note 3)	Ma: 111.7 N•m Mb: 66.6 N•m Mc: 50.0 N•m
Overhang load length	450 mm max. in Ma direction, 450 mm max. in Mb/Mc directions
Base	Material: Aluminum with black alumite treatment
Applicable controllers	T2: SCON, SSEL, XSEL-P/Q
Cable length (Note 4)	N: None S: 3 m M: 5 m X☐☐: Specified length
Ambient operating temperature	0 to 40°C, 85% RH max. (No condensation)

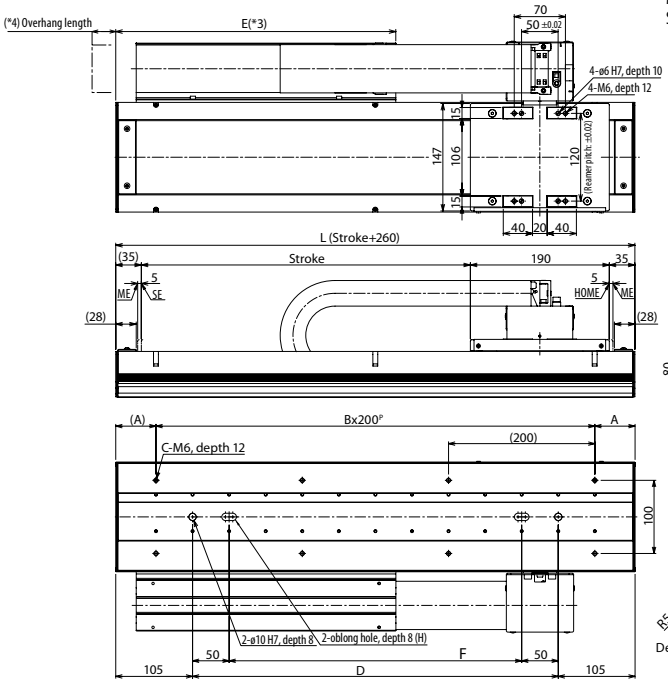
Diagram

CAD drawings are available for download from our website.

2D CAD

ME: Mechanical End
SE: Stroke End

(*1) The cable track may expand and become slightly larger than the dimensions shown below.
(*2) The user cable track can be used only when the stroke is 2000 mm or less.
(*3) With the user cable track specification, dimension E corresponds to "30 mm less than the dimension shown in the table."
(*4) The cable track overhang length is as follows:
Standard cable track: 10 mm max.
User cable track: 20 mm max.



Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050	3150	3250	3350	3450	3550	3650	3750	3850	3950	4050	4150
L	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010	2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710	3810	3910	4010	4110	4210	4310	4410
A	105	55	105	55	105	55	105	55	105	55	105	55	105	55	105	55	105	55	105	55	105	55	105	55	105	55	105	55	105	55	105	55	105	55	105	55	105	55	105	55	105
B	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20	21	21
C	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
D	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200
E	230	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480	1530	1580	1630	1680	1730	1780	1830	1880	1930	1980	2030	2080	2130	2180	2230
F	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100
Mass (kg)	9.3	10.6	12.0	13.3	14.6	15.9	17.2	18.5	19.8	21.2	22.5	23.8	25.1	26.4	27.7	29.0	30.4	31.7	33.0	34.3	35.6	36.9	38.2	39.6	40.9	42.2	43.5	44.8	46.1	47.4	48.8	50.1	51.4	52.7	54.0	55.3	56.6	58.0	59.3	60.6	61.9

Applicable Controller Specifications

Applicable controllers	Maximum number of controlled axes	Operating method	Power-supply voltage	Page
XSEL-P/Q	6 axes	Program	Single/three-phase 200 VAC	→ P13
SSEL	2 axes	Program/positioner	Single-phase 200 VAC	→ P13
SCON	1 axis	Pulse/positioner	Single-phase 200 VAC	→ P13

Caution

(Note 1) If the stroke is short, the maximum speed may not be reached.
(Note 2) Varies depending on the operating conditions. (Refer to P5)
Take note that this actuator can be installed only horizontally (it cannot be used vertically, lying on its side, hanging from the ceiling, etc.)
(Note 3) Based on a traveling life of 10,000 km.
(Note 4) The maximum cable length is 20 mm.
Specify a desired length in m.
(Example: X08 = 8 m)