# Ordering method

High lead: Lead 30

a or dorning infomio	·				
F10			-SR1-X - 0	5	
Model	Conting   Conting   Conting   No entry:	150 to 1050   lengt   3L: 3.6 (Stance in er. Standard   150 to 1050   (Somm pitch)   3L: 3.6 (Stance in er. Standard   5L: 5n   5L: 5n	dard) n 0m 110K Note 2	Vor less No entry: Standard E: CE marking	N: NPN P: PNP CC: CC-Link DN: DeviceNet PB: Profilis YC: YC-Link No est No entry: None (Incremental specification) B: Battery (Absolute specification)

Origin at non-motor side: Lead 10·20·30

Note 2. The robot cable is standard cable, but can be changed to bend-resistant cable. (not supported on RDX), See P.423 for details on robot cable.

Note 3. To find TS-X, RDX selection options, see the ordering method listed on each controller's page (TS-X: P.355, RDX: P.365).

Note 4. When using the SR1-X, TS-X, a regenerative unit is required when the movement stroke is 700mm or more and used perpendicularly. When using the RDX, the regenerative unit RBR1 is required regardless of the installation conditions.

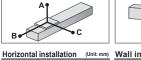
Note 5. Available only for the slave.

#### Specifications AC servo motor output (W) 100 Repeatability Note 1 (mm) +/-0.01 Deceleration mechanism Ball screw (Class C7) Ball screw lead (mm) 30 20 10 Maximum speed Note 2 (mm/sec) 1800 1200 600 300 15 20 40 60 Maximum Horizontal payload (kg) Vertical 4 10 20 Rated thrust (N) 56 84 169 339 Stroke (mm) 150 to 1050 (50mm pitch) Stroke+260 Overall length (mm) Stroke+290 Vertical Maximum dimensions of cross W110 × H71 section of main unit (mm) Cable length (m) Standard: 3.5 / Option: 5,10 Linear guide type 4 rows of circular arc grooves × 1 rail Resolvers Note 3 Position detector Resolution (Pulse/rotation) 16384

- Note 1. Positioning repeatability in one direction.

  Note 2. When the stroke is longer than 750mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table below.
- Note 3. Position detectors (resolvers) are common to incremental and absolute specifications. If the controller has a backup function then it will be absolute specifications.

## ■ Allowable overhang Note



В С

491

236 40 44

179

0

15kg 223 61 63

20kg

30kg

40kg 106

30kg 419

50kg

60kg

20 5kg 937 282 259

Lead 10kg 487 121 116

9 15kg 273 215

> 71 74 9 10kg 105 53

17

0 0

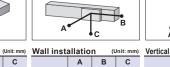
19 20

0 0

20

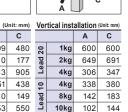
0

Lead



0

0



480	20	1kg	600	600	
177	Lead	2kg	649	691	
905	Le	4kg	306	347	
438	10	4kg	338	380	
149	Lead 10	8kg	142	183	
550	Le	10kg	102	144	
230	5	10kg	105	146	
0	Lead	15kg	51	93	
1410	Ľ	20kg	25	66	
540					
0					

Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km

5kg 206 209

15kg

5kg 250 213

10kg

20kg

20kg

30kg

10kg 107 54 141

20kg

30kg

45

99 51

21 0

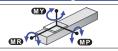
22

0 0

22 0 54

0 0

### Static loading moment



MY	MP	MR
131	131	115

■ Controller									
Controller	Operation method								
SR1-X-05 Note	Programming / I/O point trace / Remote command / Operation using RS-232C communication								
TS-X205 Note	I/O point trace								
RDX-05-RBR1	Pulse train control								

Note. Regenerative unit is required when the models used vertically and with 700mm or larger stroke

#### F10 165+/-3 (Note 2): Approx. 250 (Motor cable length) Who Vhen origin is on motor side (165): When origin is (95): When origin is on motor side Effective stroke 95+/-3 (Note 3): When origin is on non-motor side on non-motor side 117+/-1 (Note 1) 2-φ5H7 Depth15 47+/-1 Direction of robot cable connection 97 70 4-M5 x 0.8 Depth12 (Note 4) 8 127 (with brake 147+/-1 (with brake) (Note 1) 195+/-3 (with brake): When origin is on motor side (195): When origin is on non-motor side Approx. 250 4-M5 x 0.8 Depth9 50 18 (The same post on on the opposite surface at 2 locations) 78 30 (with brake 195 (with brake) M x 200 165 B (Note 5) 200 φ9.5 (Note 5) Ν-φ5.5 N-M5 x 0.8 Depth10 200 B (S=1/1) 175 M x 200

Note 1. Distance from both ends to the mechanical stopper.

Note 2. 167.5+/-4 when the high lead specification (Lead 30) is used.

Note 3. 95+/-4 when the high lead specification (Lead 30) is used.

Note 4. 44.5+/-1 when the high lead specification (Lead 30) is used.

Note 5. When installing the unit, washers, etc., cannot be used in the  $\varphi$ 9.5 counter bore hole. Note 6. Minimum bend radius of motor cable is R5. Note 7. Weight of models with no brake. The weight of brake-attached models is 0.6 kg heavier than the models with no brake shown in the table.

Note 4. 44.5+/-1 when the high lead specification (Lead 30) is used.									ike snov	whill the table.										
Effectiv	/e stroke	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
	L	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110	1160	1210	1260	1310
	Α	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
	M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5
	N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14
Weight	(kg) Note 7	5 5	5.7	5.8	6.2	6.5	6.9	7.3	7.7	8.1	8.5	8 8	9.2	9.6	10.0	10.4	10.8	11.1	11.5	11.9
Maximum speed Note 8 (mm/sec)	Lead 30	1800									14	40	11	70	90	00	810			
	Lead 20	1200									960		780		600		540			
	Lead 10	600										480		390		300		270		
	Lead 5		300									240		195		150		135		
	Speed setting	-									80% 65%		50	)%	45%					

205 (with brake)

Note 8. When the stroke is longer than 750mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table above.