

C4LH

Origin on the non-motor side is selectable



Ordering method

C4LH

Model	Lead designation 12: 12mm 6: 6mm 2: 2mm	Brake No entry: With no brake BK: With brake	Direction of air coupler installation L: Left (Standard) R: Right	Origin position change None: Standard Z: Non-motor side	Stroke 50 to 400 (50mm pitch)	Cable length ^{Note 1} 3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)	TSX Positioner ^{Note 2} TS-X Driver: Power supply voltage / Power capacity 10S: 100V/100W or less 20S: 200V/100W or less	LCD monitor No entry: None L: With LCD	I/O selection NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board ^{Note 3}	Battery B: With battery (Absolute) N: None (Incremental)
SR1-X Controller	05 Driver: Power capacity 05: 100W or less	Usable for CE No entry: Standard E: CE marking	I/O selection N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	Battery B: With battery (Absolute) N: None (Incremental)						
RDV-X Driver	2 Power-supply voltage 2: AC200V	05 Driver: Power capacity 05: 100W or less								

Note 1. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.594 for details on robot cable.
Note 2. See P.498 for DIN rail mounting bracket.
Note 3. Select this selection when using the gateway function. For details, see P.60.

Basic specifications

AC servo motor output (W)	30
Repeatability ^{Note 1} (mm)	+/-0.02
Deceleration mechanism	Ball screw $\phi 8$ (Class C10)
Ball screw lead (mm)	12 6 2
Maximum speed (mm/sec)	720 360 120
Maximum payload (kg)	Horizontal 4.5 6 6 Vertical 1.2 2.4 7.2
Rated thrust (N)	32 64 153
Stroke (mm)	50 to 400 (50mm pitch)
Overall length (mm)	Horizontal Stroke+205 Vertical Stroke+240
Maximum outside dimension of body cross-section (mm)	W45×H55
Cable length (m)	Standard: 3.5 / Option: 5, 10
Degree of cleanliness	ISO CLASS 3 (ISO14644-1) ^{Note 2}
Intake air (Nℓ/min) ^{Note 3}	50 30 15

Note 1. Positioning repeatability in one direction.
Note 2. CLASS 10 (0.1 μ m) FED-STD-209D or equivalent when a suction blower is used.
Note 3. The necessary intake amount varies depending on the use conditions and environment.

Allowable overhang

	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)		
	A	B	C	A	B	C	A	C	
Lead 12	2kg 339	90	174	2kg 136	72	295	1.2kg 118	118	
Lead 6	4.5kg 169	37	72	4.5kg 44	20	111	2.4kg 52	54	
Lead 2	3kg 234	27	62	3kg 101	41	254	3kg 38	39	
Lead 12	3kg 1105	59	142	6kg 27	10	127	7.2kg 0	0	
Lead 6	6kg 520	27	66	3kg 110	41	805			
Lead 2				6kg 28	10	290			

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

Note. Service life is calculated for 300mm stroke models.

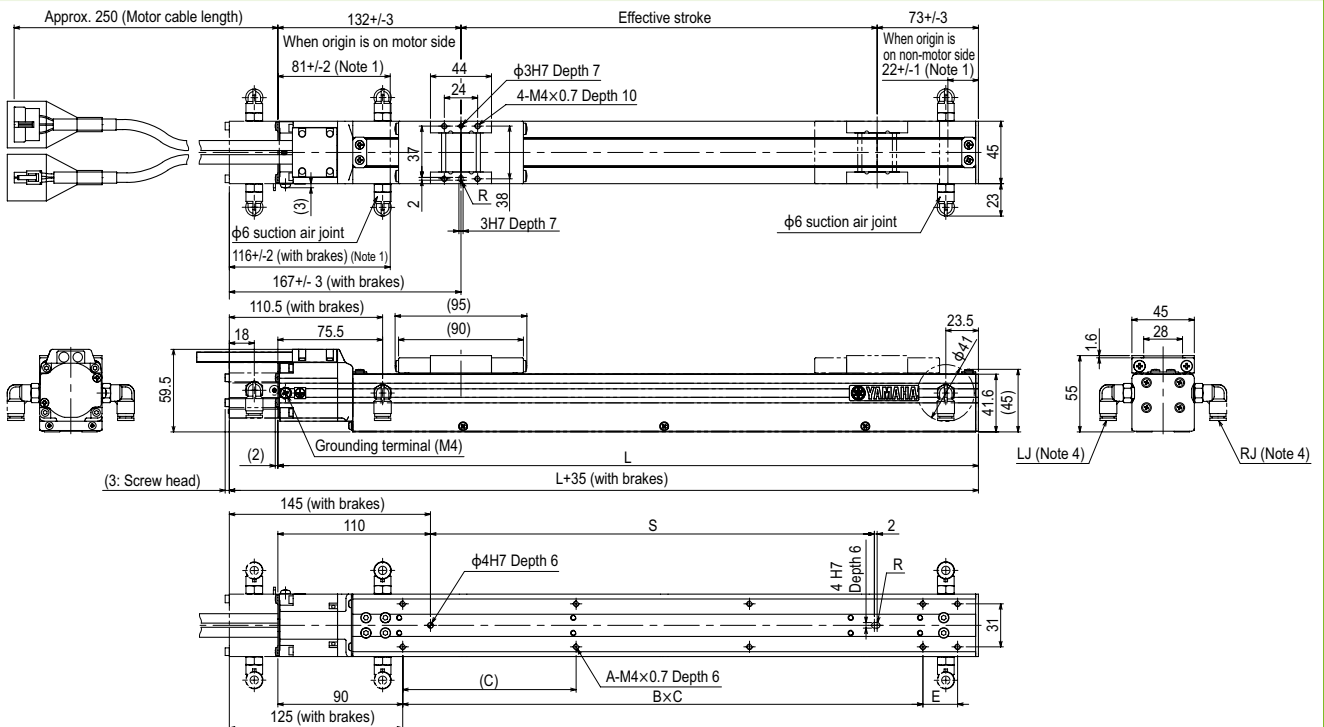
Static loading moment

			(Unit: N·m)		
MY	MP	MR	MY	MP	MR
15	19	18			

Controller

Controller	Operation method
SR1-X05 RCX221/222 RCX240/340	Programming / I/O point trace / Remote command / Operation using RS-232C communication
TS-X105	I/O point trace / Remote command
TS-X205	
RDV-X205	Pulse train control

C4LH



Effective stroke	50	100	150	200	250	300	350	400
L	255	305	355	405	455	505	555	605
A	4	6	6	8	8	10	10	10
B	1	2	2	2	2	3	3	4
C	150	100	125	125	125	125	125	125
E	0	0	0	50	100	25	75	0
S	70	120	170	220	270	320	370	420
Weight (kg) ^{Note 3}	1.4	1.5	1.7	1.8	2	2.1	2.3	2.4
Maximum speed for each stroke (mm/sec)	Lead 12	720						
	Lead 6	360						
	Lead 2	120						

Note 1. Stop positions are determined by the mechanical stoppers at both ends.
Note 2. Minimum bend radius of motor cable is R30.
Note 3. Weight of models with no brake. The weight of brake-attached models is 0.2 kg heavier than the models with no brake shown in the table.
Note 4. Either right or left can be selected for the installation direction for the $\phi 6$ intake air joint. (The left side is the standard.)
Note 5. External view of C4LH is identical to C4L.

Articulated robots
YA
Linear conveyor modules
LCM100
Compact single-axis robots
TRANSEVO
Single-axis robots
FLIP-X
Linear motor single-axis robots
PHASER
Cartesian robots
XX-X
SCARA robots
YK-X
Pick & place robots
YP-X
CLEAN
CONTROLLER INFORMATION
Single-axis
Cartesian
SCARA