

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 <small>Note 1</small> 3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)	TSX Positioner <small>Note 2</small> 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 <small>Note 3</small>	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.614 for details on robot cable.
Note 2. See P.522 for DIN rail mounting bracket.
Note 3. Select this selection when using the gateway function. For details, see P.66.

Basic specifications

AC servo motor output (W)	30	
Repeatability <small>Note 1</small> (mm)	±0.02	
Deceleration mechanism	Ball screw φ8	
Ball screw lead (mm)	12	6
Maximum speed (mm/sec)	720	360
Maximum payload (kg)	Horizontal	Vertical
	4.5	6
	1.2	2.4
	32	64
	64	153
Stroke (mm)	50 to 400 (50mm pitch)	
Overall length (mm)	Stroke+205	
	Stroke+243	
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) <small>Note 2</small>	
Intake air (Nl/min) <small>Note 3</small>	50	30
	30	15

Note 1. Positioning repeatability in one direction.
Note 2. CLASS 10 (0.1µm) 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 Note

Horizontal installation (Unit: mm)	A	B	C	Lead 12	2kg	339	90	174
					4.5kg	169	37	72
Wall installation (Unit: mm)	A	B	C	Lead 12	2kg	136	72	295
					4.5kg	44	20	111
Vertical installation (Unit: mm)	A	C	Lead 12	1.2kg	118	118		
				2.4kg	52	54		
Lead 6	A	C	Lead 6	3kg	1105	59	142	
				6kg	234	27	62	
Lead 2	A	C	Lead 2	3kg	1105	59	142	
				6kg	234	27	62	

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

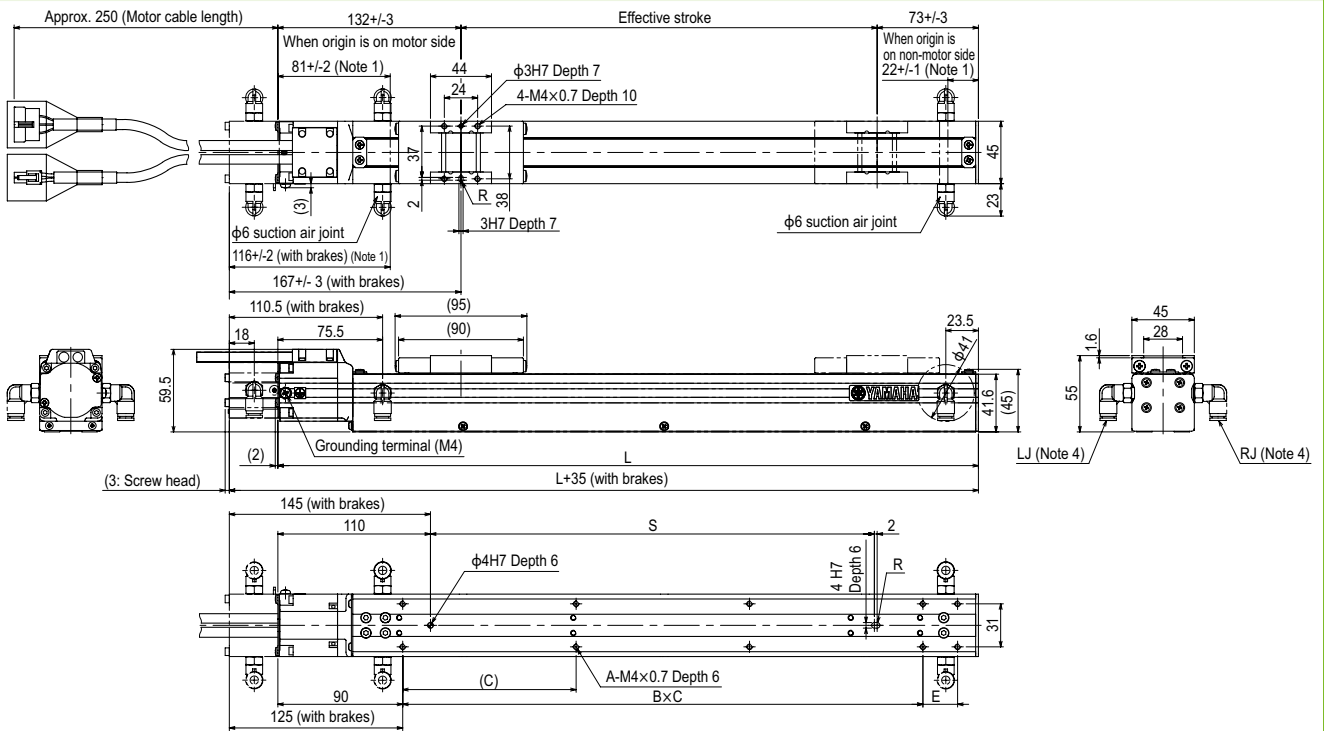
MY	MP	MR
15	19	18

(Unit: N·m)

Controller

Controller	Operation method
SR1-X05 RCX320 RCX221/222 RCX340	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

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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) <small>Note 3</small>	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 φ6 intake air joint. (The left side is the standard.)
Note 5. External view of C4LH is identical to C4L.