

RS2C

Slider Type Actuator (4–10 kg Max.) / Clean Room Version



Features: Standard equipped with Vacuum Air Joint and Low Particulate Grease



Components: Actuator, Controller, Cable
Accessories

Controller I/O Specifications		
Accessories	NPN / PNP	CC-Link
	Instruction Manual (CD-ROM), Power Connector, Dummy Connector	DeviceNet
	CC-Link Connector	DeviceNet Connector

Actuator Material / Surface Treatment			
Components	Guide Rail	Slider	Side Covers
Material	Steel	Aluminum	Aluminum
Surface Treatment	—	—	Anodize

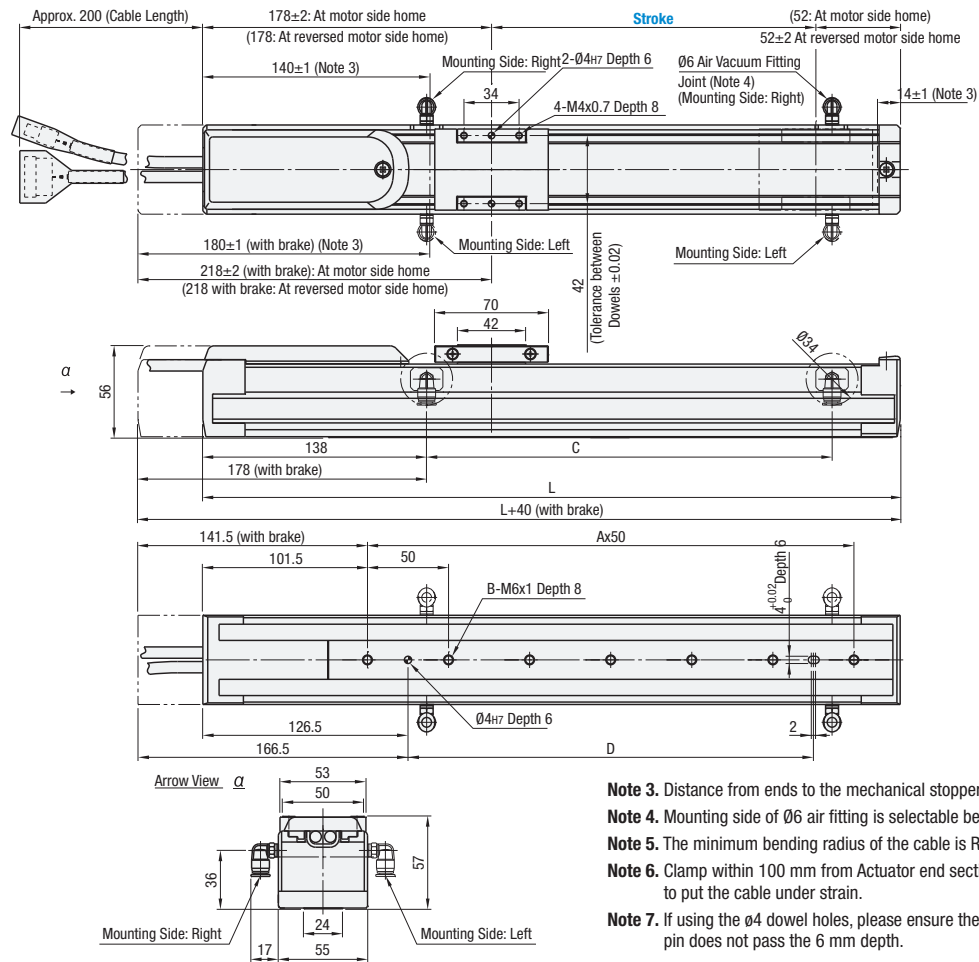
General Specifications			
Ball Screws	Motor	Position Detector	Service Ambient Temperature / Humidity
Ø12 (C10 Rolled)	Stepping	Resolver (Incremental)	0–40°C, 35–85% RH (No condensation)

RoHS10 Controller Specification P510 Cycle Time Graph P514

Standard Specifications Terminology P513.

Type	Lead (mm)	Positioning Repeatability (mm)	Maximum Load Capacity (kg)	Maximum Push Force (N)	Stroke (mm)	Maximum Velocity (Note 1) (mm/sec)	Rated Running Life	Controller Input Power Supply	Maximum Positioning Points	Cleanroom Class (Note 2)	Vacuum (l/min)
RS2C	06	±0.02	Horizontal	90	50–800 (50 Pitch)	300–190	10,000 km or More	DC24V ±10%	255 Points	CLASS10 Based on 0.1 µm per 1cf	90
	12		Vertical	45		600–380					
	20		—	27		1000–633					

Note 1: Maximum speed varies depending on stroke. Please see Maximum Speed Table on the right page. Note 2: In the case of 90 l/min vacuum.



- Note 3. Distance from ends to the mechanical stoppers
- Note 4. Mounting side of Ø6 air fitting is selectable between right and left.
- Note 5. The minimum bending radius of the cable is R30.
- Note 6. Clamp within 100 mm from Actuator end sections so as not to put the cable under strain.
- Note 7. If using the Ø4 dowel holes, please ensure the dowel pin does not pass the 6 mm depth.

Dimensions / Mass

Type	Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
RS2C	L	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030
	A	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	B	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	C	90	140	190	240	290	340	390	440	490	540	590	640	690	740	790	840
	D	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850
	Mass (kg)	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.5	3.7	3.9	4.1	4.3	4.5	4.6	4.8	5.0

The mass of "with brake" type is 0.2 kg heavier.

RS2C

Slider Type Actuator (4–10 kg Max.) / Clean Room Version, continued

CE Compliant

See notes on CE Marking P513

Type	Part Number		Selections				
	Lead (mm)	Brake (⊙)	Coupler Install Side	Controller	I/O Module	Cable Length (m)	Stroke (mm)
RS2C	06	Without: Blank With: B	Right: R Left: L	C1 DC24V±10%	NPN: N PNP: P CC-Link: C DeviceNet: D	1 3 5 10 Flexible Cable	50–800 50 mm Increment
	12						
	20						

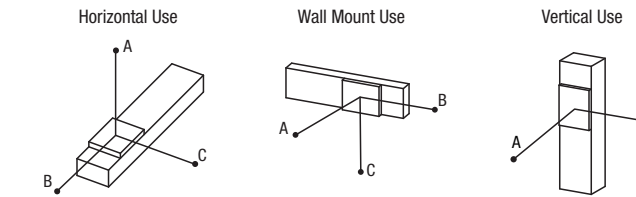
(⊙1) Choose with brake type for use in vertical alignment. With brake type is not available for Lead 20.

Part Number Example: RS2C06B - R - C1 - N - 3 - 400

Note

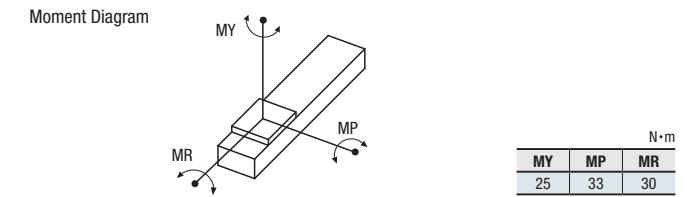
A power interruption circuit is not installed in this controller. Please be sure to build an external power interruption circuit and form an emergency stop circuit. Circuit Examples P511.

Allowable Overhang Load



Lead	Mass	mm			Lead	Mass	mm			Lead	Mass	mm		
		A	B	C			A	C						
06	10 kg	344	29	62	06	8 kg	47	22	355	06	2 kg	148	148	
	8 kg	332	37	79		6 kg	76	35	377		1 kg	312	312	
	4 kg	503	78	165		4 kg	134	63	496		1 kg	286	286	
12	6 kg	335	47	95	12	6 kg	63	31	263	12	4 kg	109	57	300
	4 kg	347	72	139		4 kg	92	51	265		0.5 kg	578	579	
20	4 kg	334	67	120	20	4 kg	92	51	265	20	2 kg	192	123	372
	2 kg	413	139	218		2 kg	192	123	372					

Allowable Static Moment



Type	Lead (mm)	Stroke (mm)				
		50–600	650	700	750	800
RS2C	06	300	280	250	220	190
	12	600	560	500	440	380
	20	1000	933	833	733	633

Part Number Alterations: RS2C06B - R - C1 - N - 3 - 400 - E-H

Alterations	Change of Home Position	Handy Terminal	Handy Terminal with Deadman's Switch	Support Software with USB Communication Cable	Support Software with RS232C Communication Cable	I/O Cable	Actuator Instruction Manual	Controller Instruction Manual	Main Body Plastic Color Alterations
Code	E	H	D	S	R	T	MJ / ME	KJ / KE	BC
Spec.	The home position is relocated to the opposite side of the motor.	Handy Terminal is included. Specifications P512	Handy Terminal with Deadman's Switch is included. Specifications P512	Support Software USB with communication cable is included. Specifications P512	Support Software with RS232C communication cable is included. Specifications P512	I/O cable is included. Required for NPN / PNP configurations. Specifications P512	For Actuator main structures. Instruction Manual is included. MJ: Japanese Language ME: English Language	For Controllers Instruction Manual is included. KJ: Japanese Language KE: English Language	Change the Actuator plastic parts color to black.

See P512 for Optional Items.