

RS2

Slider Type Actuator (4–10 kg Max.)



Controller Specification P.510 Cycle Time Graph P.514 Clean Spec. P.500

Components: Actuator, Controller, Cable

Accessories

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

Robot Material / Surface Treatment

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

General Specifications

Ball Screws	Motor	Position Detector	Operating Ambient Temperature, Humidity
Ø12 (C10 Rolled)	Stepping	Resolver (Incremental)	0–40°C, 35–85% RH (No Condensation)

Black plastic specification is applied to the main body. (Please specify as alterations)

CE Compliant

See notes on CE Marking P.513

RS2

Slider Type Actuator (4–10 kg Max.), continued



Type	Part Number		Selections			
	Lead (mm)	Stroke (mm)	Controller (O2)	I/O Module	Cable Length (m)	Stroke (mm)
RS2	06	50–800 50 mm Increment	None: Blank Included: B	Point Control: C1 Pulse Control: P1 DC24V ±10%	NPN: N PNP: P CC-Link: C DeviceNet: D	1 3 5 10 Flexible Cable
	12					
	20					

(O1) Choose the "Brake" option for use in vertical applications. (The brake option is not available for Lead 20)
(O2) When the pulse train type controller is selected, the I/O type selection is not required.

Part Number Example

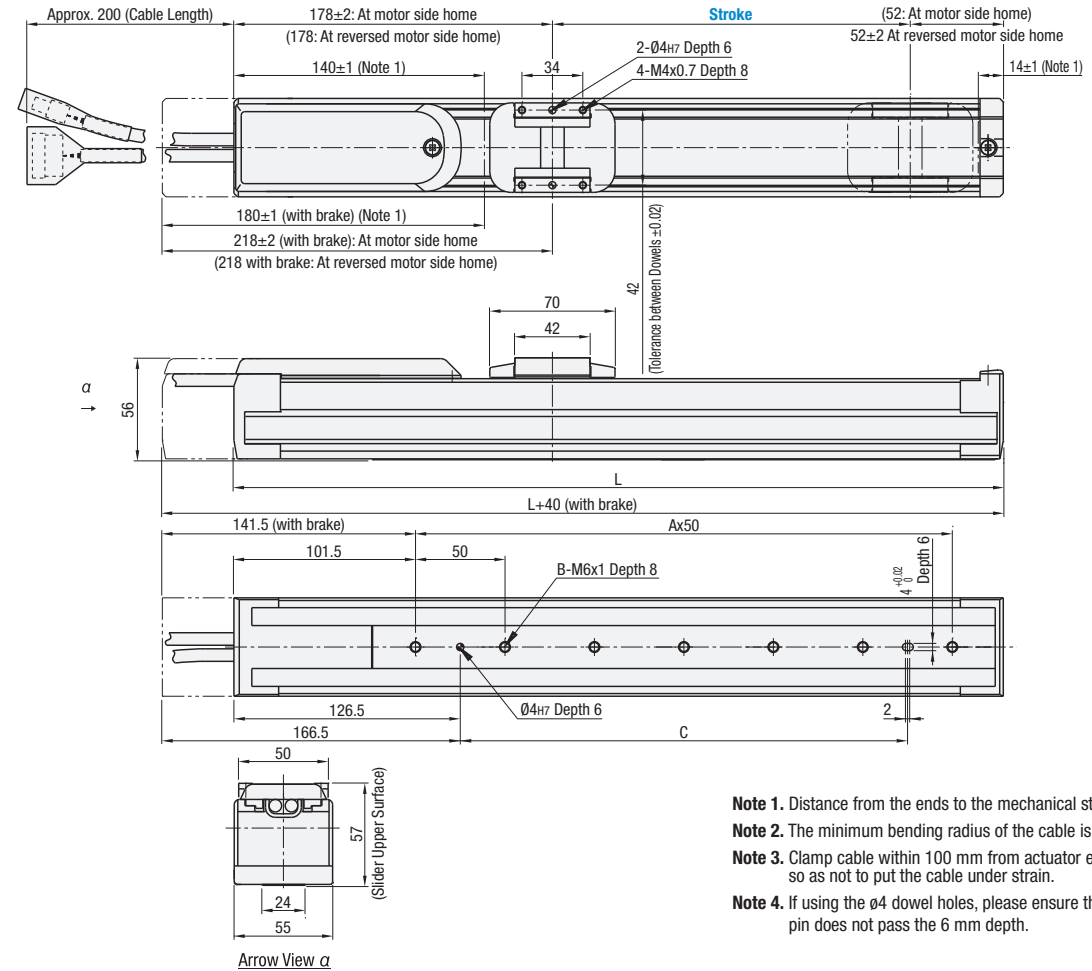
Part Number	Controller	I/O Module	Cable Length	Stroke
RS206B	C1	N	3	400
RS206B	P1		3	400

Controller: P1

Standard Specifications Terminology P.513

Type	Lead (mm)	Positioning Repeatability (mm)	Maximum Load Capacity (kg)		Maximum Push Force (N)	Stroke (mm)	Maximum Velocity (Note) (mm/sec)	Rated Running Life	Input Power Supply	Maximum Positioning Points
			Horizontal	Vertical						
RS2	06	±0.02	10	2	90	50–800 (50 Pitch)	300–190	10,000 km or More	DC24V ±10%	255 Points
	12		6	1	45		600–380			
	20		4	—	27		1000–633			

Note: Maximum velocities allowed may vary depending on the stroke length selected. Please refer to the "Recommended Maximum Velocities" table.



Dimensions / Mass

Type	Dimensions / Mass	Stroke (mm)															
		50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
RS2	L (mm)	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030
	A (mm)	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	B (mm)	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	C (mm)	100	150	200	250	300	350	400	450	500	500	500	500	500	500	500	500
	Mass (kg)	2.1	2.3	2.5	2.7	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0

The brake adds 0.2 kg to the total mass.

Note
A power interruption circuit is not installed in this controller in order to provide maximum flexibility for customer specification safety scheme. Please be sure to build an external power interruption circuit and form an emergency stop circuit. For Circuit Examples, see P.511.

Allowable Overhang Load

Horizontal Use

Wall Mount Use

Vertical Use

Allowable Static Moment

Moment Diagram

	MY	MP	MR
N · m	25	33	30

Max. Velocity (mm/sec)

Type	Lead (mm)	Stroke (mm)				
		50–600	650	700	750	800
RS2	06	300	280	250	220	190
	12	400–600	560	500	440	380
	20	350–1000	933	833	733	633

Please confirm the max speeds based on stroke with MISUMI Web Simulator.
For stroke ranges 650 mm or more, ball screws may resonate in certain operation areas (critical speed). In that case, reduce the operation speed by referring to the Max. Velocity shown in the table above.

Part Number Alterations

Part Number	Controller Types	I/O Types	Cable Length	Stroke	(G, E, etc.)
RS206B	C1	N	3	400	G-E

Alterations	Grease Type Alteration	Change of Home Position	Handy Terminal Standard Specification	Handy Terminal with Deadman's Switch	Support Software with USB Communication Cable	Support Software with D-Sub Communication Cable	I/O Cable	Cable for daisy-chain connection	Instruction Manual	Main Body Plastic Color Alterations
Code	G	E	H	D	S	R	T / TP	C	MJ5 / KJ3 / KJ4	BC
Spec.	Grease is changed to low particle generation grease. (NSK LG2)	The home position is relocated to the opposite side of the motor.	Handy Terminal is included. Specifications P.512	Handy Terminal with Deadman's Switch is included. Specifications P.512	Support Software with USB Communication Cable is included. Specifications P.512	Support Software with D-Sub communication cable is included. Specifications P.512	I/O cable is included. Required for NPN / PNP configurations. Specifications P.512	A cable to connect multiple controllers. Up to 16 controllers can be connected.	Operation Manual is included.	Change the actuator plastic parts color to black.

For optional items, see P.512. It is more economical to order the optional items as alterations than purchasing them individually.
Entering point data requires the handy terminal or the support software. An I/O Cable is required for Parallel Communication I/O Control.
Please select the correct I/O cable type for the appropriate controller type.