

deceleration

ratio



Technical References

XSEL-R/S

(Unit: degrees/s)

(2) Positioning mode can move between 0 to 9,999.99 deg (0 to 6,140.99 deg with reduction ratio of 1/30). Index rotation mode can move from 0 to 359.99 deg. (Once the actuator moves beyond 359.99 deg, it resets to 0 without having to

(1) The rated and maximum acceleration is 0.3G.

(3) Actuator may vibrate as it moves if the speed is lower than 100 deg/s. Please drive the unit at or above 100mm/s.

Actuator Specifications

■ Leads and Payload

Model number	Motor Output (W)	Deceleration Ratio	Max. Torque (N·m)	Allowable Movement of Inertia (kg · m²)	Oscillation Angle (deg)	
RCS2-RTC12L-①-150-18-360-T2-②-③	150	1/18	5.2	0.1	360	
RCS2-RTC12L-①-150-30-360-T2-②-③		1/30	8.6	0.17	(*)	

* Refer to "POINT Notes on Selection" above.

■ Deceleration Ratio and Max. Speed

Stroke Deceleration ratio	360 (deg)
1/18	800
1/30	600

rotate back to home.)

① Encoder Type

	Standard price		
Туре	①Encoder Type	ler Type	
	Incremental	Absolute	
RTC12L	_	_	

③ Options			
Name	Option code	See page	Standard price
Brake	В	→ A-42	_
CE-compliant specification	CE	→ A-42	_
Limit switch (standard)	L	→ A-51	_
Reversed-rotation	NM	→ A-52	_

②Cable Length

Туре	Cable symbol	Standard Price
Standard	P (1m)	_
	S (3m)	_
	M (5m)	_
	X06 (6m) ~ X10 (10m)	_
Special length	X11 (11m) ~ X15 (15m)	_
	X16 (16m) ~ X20 (20m)	_
Robot Cable	R01 (1m) ~ R03 (3m)	_
	R04 (4m) ~ R05 (5m)	_
	R06 (6m) ~ R10 (10m)	_
	R11 (11m) ~ R15 (15m)	_
	R16 (16m) ~ R20 (20m)	_

^{*} See page A-59 for cables for maintenance.

Actuator Specifications	
ltem	Description
Drive System	Timing belt drive system + hypoid gear
Positioning repeatability	±0.005 degrees
Backlash	±0.05 degrees or less
Allowable thrust load	800N
Allowable load moment	25 N·m
Brake retention torque	1.0 N·m
Weight	6.5kg
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

Dimensional Drawings

CAD drawings can be downloaded www.intelligentactuator.com

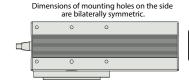
For Special Orders



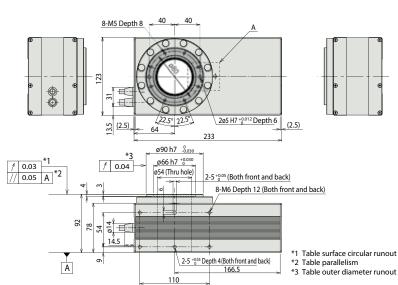




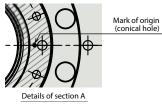
Connect the motor and encoder cables here. (See page A-59 for details on cables.)



Caution The shaded area in the top view shows the rotation area.



ø5+0.05 Depth 4 100 or higher must be retained 108 \blacksquare 4-M6 Depth12 Ø5+0.05 Depth 4 (7.5) Cable joint connector*



The position in the detail A drawing above is the homing location for both standard type/ reversed rotation type (Option "-NM"). Looking from the above, the standard type will rotate counter clockwise during homing, and it moves clockwise afterward. Reverse rotation type will move clockwise during homing and moves counter clockwise afterward.

Applicable Controllers

RCS2-series actuators can be operated with the following controllers. Select an appropriate controller type according to your application

Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power supply capacity	Standard price	Reference page	
Positioner mode		SCON-CA-150①-NP-2-①	Up to 512 positioning points are supported.	512 points					
Solenoid valve mode	W		Actuators can be operated through the same control used for solenoid valves.	7 points			_	. DC 42	
Field network type			Movement by numerical specification is supported.		768 points	Single-phase *Power su	*Power supply capacity will	_	→ P643
Pulse-train input control type			Dedicated pulse-train input type	(—)	Single-phase 200VAC 3-phase	vary depending on the controller, so	_		
Positioner multi-axis, network type	間核	MSCON-C-1-150①-①-0-①	Up to 6 axes can be operated. Movement by numerical specification is supported.	256 points	200VAC please refer to		_	→ P655	
Program control type, 1 to 2 axes		SSEL-CS-1-150①-NP-2-①	Program operation is supported. Up to 2 axes can be operated.	20,000 points		uetais.	_	→ P685	
Program control type, 1 to 8 axes	Pilita	XSEL	Program operation is supported. Up to 8 axes can be operated.	Varies depending on the number of axes connected			_	→ P695	

* This is for the single-axis MSCON, SSEL, and XSEL

*(ii) indicates the power-supply voltage type (1: 100 V / 2: Single-phase 200 V).

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- * \bigcirc indicates the encoder type (I: Incremental / A: Absolute).