IX-NNW3515

Small SCARA Robot Dustproof/splash-proof type:
Arm Length 350mm, Vertical (Z) Axis 150mm

Type / Dustproof/splash-proof type | Arm length / 350mm | Load capacity / 1kg rated/3kg maximum

■ Model items

Series	Model	Cable length	Controller type	Standard I/O	Expansion I/O	I/O cable length	Power-supply voltage
(Example) IX	NNW3515	5L	KX	N1	EEE	2	2

* Refer to P. 10 for details on the model items.
* The above model code represents a combination of robot and controller.

Model/Specifications

Model	Axis configuration		Arm length (mm)	Motor capacity (W)	Work envelope	Positioning repeatability (mm) (Note 1)	Maximum operating speed (Note 2)	Standard cycle time (sec) (Note 3)	Load capacity (kg)		Axis 3 push force (N)		Axis 4 allowable load	
									Rated	Maximum	Push action (Note 4)	Maximum thrust (Note 4)	Allowable inertial moment (kg•m²) (Note 5)	Allowable torque (N•m)
IX–NNW3515–5L–□–□–□–□–2	Axis 1	Arm 1	225	200	±120°	±0.010	3979mm/s (Composite speed)	0.59	1	3	65.3	90.9	0.015	1.9
	Axis 2	Arm 2	125	100	±135°									
	Axis 3	Vertical axis	—	100	150mm	±0.010	1106mm/s							
	Axis 4	Rotating axis	—	50	±360°	±0.005	1600°/s							

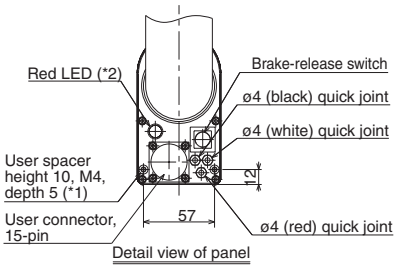
* In the above model code, specify the desired controller in □. For details, refer to "Explanation of SCARA Robot Model Items" (P. 10).

Common Specifications

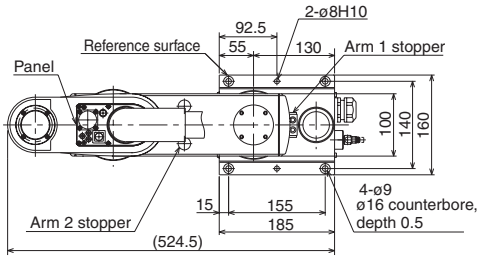
Encode type	Absolute
User wiring	15-conductor AWG26 waterproof connector with shield
User tubing	Air tube (O.D. ø4, I.D. ø2.5) x 3 (Normal working pressure 0.8MPa)
Alarm indicator (Note 6)	Red, small LED indicator x 1 (24 VDC must be supplied.)
Brake-release switch (Note 7)	Brake-release switch to prevent the vertical axis from dropping (24 VDC must be supplied.)

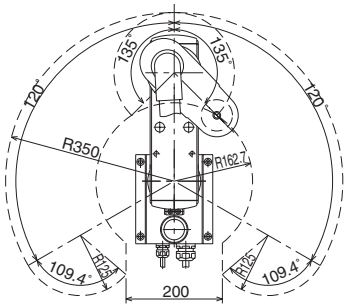
Ambient temperature/humidity	Temperature: 0~40°C, humidity: 20~85%RH or below (non-condensing)
Robot weight	22kg
Cable length (Note 8)	5L: 5m (standard), 10L: 10m (optional)
Protection grade (Note 9)	IP65 or equivalent
Air purge pressure (Note 10)	0.3MPa or above (0.6MPa maximum) (Clean, dry air)

Dimensions

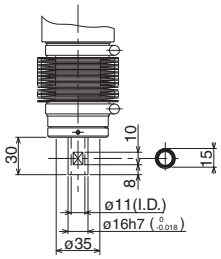


Detail view of panel

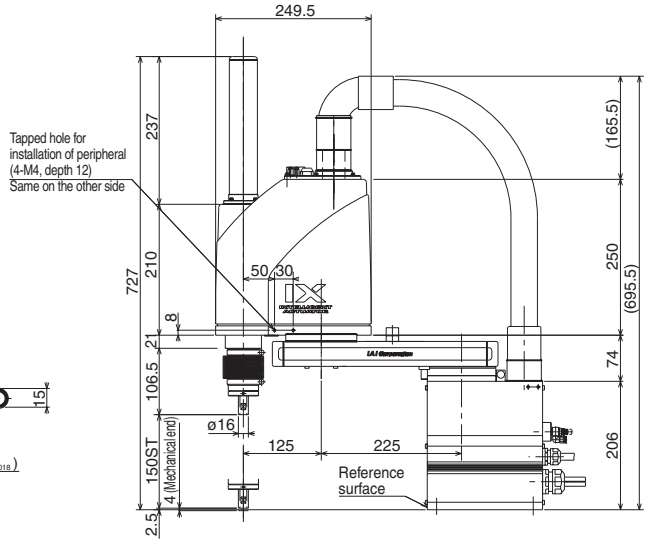


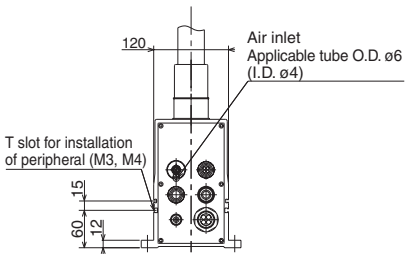


Operation prohibited area
Work envelope



Detail view of tip





Cables/tubes
- Motor/encoder cable 5m/10m
- Brake power cable 5m/10m
- User cable 5m/10m
- Air tube (3 pcs) 0.15m

*1: The external force applied to each spacer must not exceed 30 N in the axial direction or 2 N•m in the rotating direction.
*2: To use the LED, the user must provide a circuit that takes signals from the controller's I/O output and supplies 24 VDC to the applicable LED terminal in the user connector.

Applicable Controller Specifications

Applicable controller	Features	Maximum I/O points (inputs/outputs)	Serial communication unit	Power-supply voltage	Page
XSEL-KX	General-purpose type offering excellent expandability	176/160 points	Can be installed.	AC200V	P37
XSEL-JX	Compact, space-saving type	80/64 points	Cannot be installed.		P37

Caution Refer to P. 6 for the explanations of (Note 1) to (Note 8).