#### Ultra Compact SCARA Robot: Standard Type, Arm Length 120mm, Vertical Axis 50mm Type Standard type Arm length 120mm Load capacity 0.2kg rated / 1kg maximum Cable Length Applicable controller Options Model specification items Series Type (Example) IX - NNN1205 -5L T2 В

### Models/Specifications

	Model	Axis configuration	Arm length (mm)			Positioning repeatability (mm)	Maximum operating speed (Note 1)	Cycle time (sec) (Note 2)	Load capacity (kg) (Note 3)		Axis 3 Push thrust (N)		Axis 4 Allowable load		
	Model								Rated	Maximum	Pusht modet (Note 4)	Maximum thrust (Note 4)	Allowable inertial moment (kgm²)(Note 5)	Allowable torque (Nm)	
	IX-NNN1205-□-T2-□	Axis 1	Arm 1	45	12	±115°	±0.005 (XY) ±0.010 ±0.005	2053mm/ s (Composite speed)	- 0.35	0.2	1.0	9.8	17.8	0.000386	0.13
		Axis 2	Arm 2	75	12	±145°									
		Axis 3	Vertical axis	-	12	50mm		720mm/ s							
		Axis 4	Rotating axis	-	60	±360°		1800°/ s							

### Common Specifications

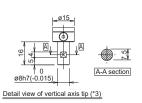
Encoder type	Absolute
User wiring	8-core, AWG26 cable with shield / Connector: SMP-08V-NC (JST)
User tubing	Air tube (O.D. ø3, I.D. ø2) x 2 (Normal working pressure 0.7MPa)
Alarm indicator (Note 6)	Small red LED indicator x 1 (24VDC must be supplied.)

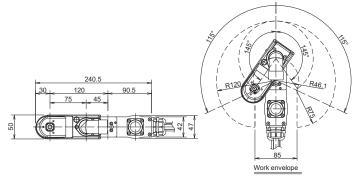
Operating temperature/humidity	Temperature 0~40°C, humidity 20~85% RH or less (non-condensing)					
Robot weight	2.7 kg					
Cable length	3L: 3m 5L: 5m					

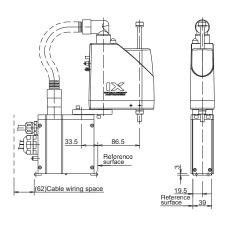
# Dimensions

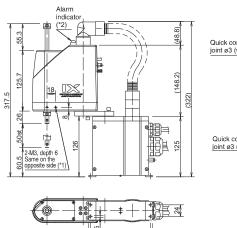
## You can download CAD drawings from IAIs website.



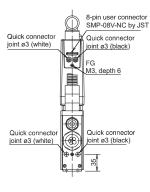


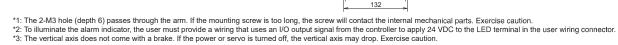






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Caution

### Applicable Controller Specifications

Applicable controller	Feature	Maximum I/O points (input/output)		Page
XSEL-PX	Able to control SCARA + 2 axes	192 points	Single-/ Three-phase	→Back
XSEL-QX	Conforming to safety category 4	/192 points	230VAC	cover

(Note 1) Based on PTP operation. In CP operation, the maximum speed is limited.
(Note 2) The cycle time is based on reciprocating movements carrying a 0.2-kg load over a horizontal distance of 100 mm and vertical distance of 25 mm.
(Note 3) The rated load capacity indicates the maximum weight that can be operated at the maximum weight that can be transported at lower speed and acceleration.
(Note 4) The thrust in the push mode indicates the force generated when a push command is executed from the program. The maximum thrust corresponds to the maximum force generated during normal positioning operation.
(Note 5) The allowable inertial moment indicates an equivalent value measured at the rotational center of axis 4. The offset between the rotational center of axis 4 and the gravity center of the tool unst not exceed 17.5 mm.
(Note 6) To use the alarm indicator, the user must provide a circuit that uses an I/O output or other signal to apply 24 VDC to the LED terminal in the user wiring connector.