IXP-3N1808/4N1808

Arm length 180mm
Vertical axis 80mm

■**Model Specification Items**

IXP	—	☐ N	1808	—	WA	—	☐	—	P3
Series	—	Number of axes 3: 3 axes 4: 4 axes	Arm length: 180mm Vertical axis: 80mm	—	Encoder type WA: Battery-less absolute specification	—	Cable length N: None P: 1m S: 3m M: 5m X☐☐: Specified length R☐☐: Robot cable Cable length described below	—	Applicable controller P3: MSEL

*Controller is not included.

CE RoHS

POINT Notes on selection

- Refer to P. 5 for (Note 1) through (Note 5).
- There is a brake equipped on the vertical axis as a standard option.
- The vertical axis does not support push-motion control.
- The allowable push force should be 45N under condition of having a buffer such as a spring on a tool or the pressing side.
- Refer to P. 5 for the work envelope, and P. 26 for the notes on acceleration/deceleration setting.

Robot Specifications

Axis configuration		Arm length (mm)	Work envelope	Positioning repeatability (Note 1)	Maximum operating speed in PTP mode (Note 2)	Payload (kg) (Note 3)	
						Rated	Maximum
Axis 1	Arm 1	80	±125°	±0.01mm	2053mm/s (Composite speed)	1	3
Axis 2	Arm 2	100	±125°				
Axis 3	Vertical axis	—	80mm	±0.02mm	350mm/s		
Axis 4	Rotational axis	—	±360°	±0.01°	1200°/s		

Robot Specifications

	3-axis specification	4-axis specification
Encoder type	Battery-less absolute encoder	
User wiring	AWG26×8	
User piping	O.D. ø4, I.D. ø2.5, 2 air tubes Maximum working pressure 0.8MPa	
Standard cycle time (sec) (Note 4)	0.57	
Allowable torque (Axis 4) (N·m)	—	0.28
Allowable moment (N·m)	0.7	
Allowable inertial moment from the tip of the vertical axis (kg·m²) (Note 5)	Rated 0.001 Maximum 0.01	Rated 0.001 Maximum 0.003
Ambient operating temperature/humidity	Temperature 0 ~ 40°C, Humidity 20 ~ 85%RH (Non-condensing)	
Unit weight (kg)	7	7.5

Model Combinations

Specification	Model number
3-axis specification	IXP-3N1808
4-axis specification	IXP-4N1808

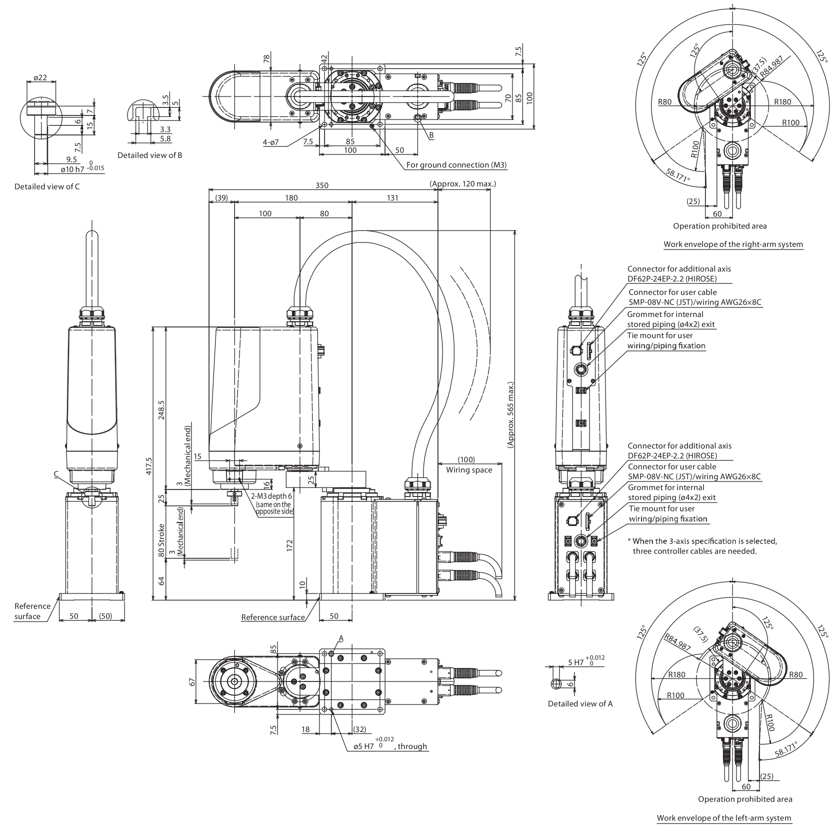
Cable Length <Per Axis*>

Type	Cable code
Standard type	P (1m)
	S (3m)
	M (5m)
Special length	X06 (6m) ~ X10 (10m)
	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)

*The 3-axis specification requires three cables, while 4-axis specification requires four cables.

Dimensions

2D CAD 3D CAD CAD drawings can be downloaded from the website. www.intelligentactuator.de



Applicable Controller Specifications

Name	External view	Model number (*1)	Max. number of controlled axes	Max. positioning points	Standard I/O points (input/output)	Input voltage	Reference page
Program control multi-axis type Safety category compliant specification		MSEL-PGXⓘ-ⓘⓘWAIB-ⓘⓘⓘ-ⓘⓥ-2-4	4	30000 points	16 points/16 points	Single-phase AC 100V ~ 230V	→P. 19
Program control multi-axis type Safety category compliant specification with network board		MSEL-PGXⓘ-ⓘⓘWAIB-ⓘⓘⓘ-ⓘⓥ-0-4					

*Ⅰ Controller type (3:3-axis specification/4:4-axis specification)
*Ⅱ SCARA type (Refer to table on the right)
*Ⅲ Standard I/O (NP/PN)
*Ⅳ Expansion I/O (Refer to table on the right)
*Refer to P. 20 if considering axis connection other than IXP series.

<SCARA type>

3N1808	4N1808

<Expansion I/O>

E	Not used	CC	CC-Link board
NP/PN	Expansion PIO board NPN/PNP spec. (*2)	CC2	CC-Link board (with 2-way connector)
DV	DeviceNet board	PR	PROFIBUS-DP board
DV2	DeviceNet board (with 2-way connector)	EP	EtherNet/IP board

(*1) The model code is just one example. Refer to P. 19 if using such as field network.
(*2) PNP specification for expansion PIO board is coming soon.