YK1000XGP

Dust-proof & drip-proof type

Arm length 1000mm
Maximum payload 18kg

■ Ordering method

RCX240-**YK1000XGP** N, P: Standard I/O 16/8 N1, P1: 40/24 N2, P2: 64/40 N3, P3: 88/56 N4, P4: 112/72 No entry: None VY: iVY (Vision) TR: iVY+Light No entry: None GR: 3L: 3.5m 5L: 5m No entry: None CC: CC-Link F: With tool flange 200: 200mm 400: 400mm No entry: Standard DN: DeviceNet
PB: Profibus
EN: EtherNet
EP: EtherNet/IP
YC: YC-Link Note 2 10L: 10m marking +Tracking LC: iVY+Light

Note 1. Use N to N4 when NPN is selected on the I/O board, and P to P4 when PNP is selected

Note 2. Available only for the master.

■ Specifications							
		X-axis	Y-axis	Z-axis		R-axis	
Axis specifications	Arm length (mm)		600	400	200	400	-
	Rotation angle (°)		+/-130	+/-150	-		+/-360
AC servo motor output (W)			750	400	400		200
	Speed reducer		Harmonic drive	Harmonic drive	Ball screw		Harmonic drive
Deceleration mechanism	Transmission method	Motor to speed reducer	Direct-coupled				
		Speed reducer to output	Direct-coupled				
Repeatability Note 1 (XYZ: mm) (R: °)			+/-(0.02	+/-0.01		+/-0.004
Maximum speed (XYZ: m/sec) (R: °/sec)			10	0.6 2.3		1.7	920
Maximum payload (kg)			18				
Standard cycle time: with 2kg payload Note 2 (sec)			0.59				
R-axis tolerable moment of inertia Note 3 (kgm²)			1.0				
Protection class Note 4			Equivalent to IP65 (IEC 60529)				
User wiring (sq × wires)			0.2×20				
User tubing (Outer diameter)			ф6×3				
Travel limit			1.Soft limit 2.Mechanical stopper (X,Y,Z axis)				
Robot cable length (m)			Standard: 3.5 Option: 5,10				
Weight (kg)			Z axis 200mm: 60 Z axis 400mm: 62				
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Controller | Power capacity (VA) | Operation method

2500

Programming / I/O point trace Remote command /

Operation using RS-232C communication

Controller

RCX240-R3

Note. The movement range can be limited by changing the positions of X and Y axis mechanical stoppers. (The movement range is set to the maximum at the time of shipment.) See our robot manuals (installation manuals) for detailed information.

To set the standard coordinates with high accuracy, use a standard coordinate setting jig (option). Refer to the user's manual (installation manual) for more details.

Our robot manuals (installation manuals) can be downloaded from our website at the address below: http://www.yamaha-motor.co.jp/global/industrial/robot/

Note 1. This is the value at a constant ambient temperature. (X,Y axes)

Note 2. When reciprocating 25mm in vertical direction and 300mm in horizontal direction (rough-positioning arch motion).

Note 3. There are limits to acceleration coefficient settings.

Note 4. Do not use robots where the bellows section is directly exposed to water jet. Contact our distributor for information on drip-proof structure preventing liquid other than water.

