

MXYx 2 axes / ZFH

● XY type ● Cable carrier

Ordering method

MXYx - C			ZFH			RCX222		R			
Model	Cable	Combination	X-axis stroke	ZR-axis	Z-axis stroke	Cable length	Controller	Usable for CE	Regenerative unit	Input/Output selection 1	Input/Output selection 2
F1		F1	15 to 105cm		15 to 35cm	3L: 3.5m (Standard) 5L: 5m 10L: 10m	RCX222 DRCX1010	No entry; Standard E: CE marking	R: RG2 (RCX222) R: RGU-2 (DRCX)	N: NPN ^{Note 1} P: PNP CC: CC-Link DN: DeviceNet PB: Profibus EN: Ethernet ^{Note 1} YC: YC-Link ^{Note 2}	No entry; None N1: OP.DIO24/16 (NPN) ^{Note 1} P1: OP.DIO24/17 (PNP) EN: Ethernet ^{Note 1} EN: Ethernet ^{Note 3}

Note 1. NPN and Ethernet cannot be selected if using CE marking.
 Note 2. Available only for the master.
 Note 3. Only when CC or DN or PB was selected for I/O select 1 above. EN can be selected in I/O select 2.

Specification

	X-axis	Z-axis
Axis construction ^{Note 1}	F14H	F10-BK equivalent guide-reinforced model
AC servo motor output (W)	200	200
Repeatability ^{Note 2} (mm)	+/-0.01	+/-0.01
Drive system	Ball screw (Class C7)	Ball screw (Class C7)
Ball screw lead (Deceleration ratio) (mm)	20	10
Maximum speed ^{Note 3} (mm/sec)	1200	600
Moving range (mm)	150 to 1050	150 to 350
Robot cable length (m)	Standard: 3.5 Option: 5,10	

Note 1. Use caution that the flame machining (installation holes, tap holes) differs from single-axis robots.
 Note 2. Positioning repeatability in one direction.
 Note 3. When the X-axis stroke is longer than 750mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table below.

Maximum payload (kg)

X stroke (mm)	Z stroke (mm)		
	150	250	350
150 to 1050	14	13	12

Controller

Controller	Operation method
RCX222-R	Programming / I/O point trace / Remote command / Operation using RS-232C communication
DRCX1010-R	

MXYx 2 axes / ZFH F1

Detail of section A

70 (Between knocks +/-0.02)

Detail of section B

Use M6 x 1.0 hex socket head bolt with length head bolt with length (under head) of 20mm or more.

⊗ Cross-section of cable carrier

⊙ Cross-section of cable carrier

X stroke	150	250	350	450	550	650	750	850	950	1050
L	470	570	670	770	870	970	1070	1170	1270	1370
K	200	100	200	100	200	100	200	100	200	100
C	240	240	420	420	600	600	780	960	960	1140
M	0	1	1	2	2	3	3	4	4	5
N	4	6	6	8	8	10	10	12	12	14
Z stroke	150	250	350							
Maximum speed for each stroke (mm/sec) ^{Note 3}	X-axis		1200			960		780	600	540
Speed setting			-			80%		65%	50%	45%

Note 1. The moving range when returning to origin and the stop position when stopping by the mechanical stopper.
 Note 2. The shaded position indicates an user cable extraction port.
 Note 3. When the X-axis stroke is longer than 750mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table at the left.

APPLICATION
 TRANSERO
 FLIP-X
 PHASER
 XY-X
 YK-XG
 YP-X
 CLEAN
 CONTROLLER
 INFORMATION
 Arm type
 Gantry type
 Moving arm type
 Pole type
 XZ type