






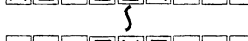






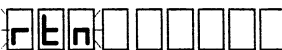




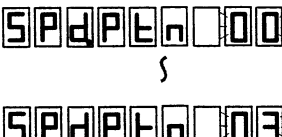

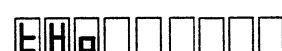
16. OP200A Display Summary

OP200A Display	Information Displayed	Description	Details/Page Reference
	Cn4 oUt	Output monitor check for CN4: Confirmation of output signals to stepping motor driver	Indicates the signals which are to be monitored for confirmation. "10.3 Confirming Input / Output Signals"(P.78)
	d-cLEAR	Displayed when data clear is selected	"9.12 Clearing Data (Initialization)"(P. 71) This function allows programmed data to be cleared. Pressing SET while "on" is displayed will clear the specified data.
	d-cLroFF	Displayed when data clear off is selected ("oFF" blinks)	
	d-cLron	Displayed when data clear on is selected ("on" blinks)	
	Err * *	Error code	Indicates that an error has occurred "18.1 Error Code Summary"(P. 120)
	E-STOP	Displayed while the emergency stop signal is input (display blinks)	"8.3.3.2 E-STOP"(P. 47)
	Ho.	Displayed during a return to mechanical home operation (display blinks)	"8.3.2.4 HOME"(P.45)
	Ho.oFFSEt	Displayed when setting the home offset	"9.8.4 Setting the Home Offset"(P. 63)
	HoSEnSor	Displayed when selecting the return to mechanical home method	Either high speed or constant speed home detection can be selected. "9.8.3 Setting the Return to Mechanical Home Method"(P. 62)
	Ho.vr	Displayed when setting the starting direction and starting speed for the return to mechanical home operation.	"9.8 Programming the Return to Mechanical Home Operation Data"(P. 60)
	inc	Displayed when selecting incremental positoning mode	"9.3 Setting the Positioning Mode"(P. 53)

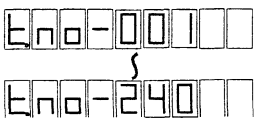






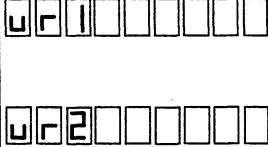


16. OP200A Display Summary

OP200A Display	Information Displayed	Description	Details/Page Reference
  	ind ind 1 ind 2	Displayed when setting the positioning operation data (number of pulses) for a variable speed operation.	"9.10 Programming a Variable Speed Operation" (P. 66)
	Loc oFF	Displayed when the key lock function is released.	Displayed for 1 second. "10.2.2 Disabling the OP200A Control Keys" (P.77)
	Loc on	Displayed when the key lock function is active.	
	no-d	Displayed when the number of pulses has not been set for all profiles (display blinks)	"8. Input / Output Signals" (P. 43)
 	no-001 } no-240	<ul style="list-style-type: none"> Displayed when external input mode is selected Displayed during a positioning operation (display blinks) 	This is the normal display during operation in external input mode
	oFFSEtoFF	Indicates the home offset is Off ("oFF" blinks)	"9.8.4 Setting the Home Offset" (P. 63)
	oFFSEton	Indicates the home offset is On ("on" blinks)	
	PAUSE	Displayed when operation is paused (display blinks)	The PAUSE display alternates with the operation displayed before the paused condition. "8.3.3.1 PAUSE"(P.46)

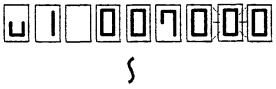
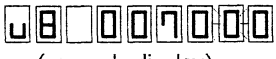



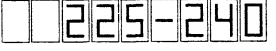
16. OP200A Display Summary

OP200A Display	Information Displayed	Description	Details/Page Reference
	P. no-001 } P. no-240	<ul style="list-style-type: none"> Displayed after selecting program mode Displayed when setting positioning data 	“9.4 Programming the Positioning Data (Number of Pulses/Operating Speed)”(P. 54)
	rtn	Displayed during a return to electrical home operation (display blinks)	“8.3.2.3 RETURN”(P.45)
	rtn.vr	Displayed when setting the speed for the return the electrical home operation	“9.7 Programming a Return to Electrical Home Operation”(P. 59)
	ScAn	Displayed during CW continuous operation (display blinks)	Input the S-STOP signal to stop operation. “8.3.2.2 SCAN”(P. 44)
	-ScAn	Displayed during CCW continuous operation (display blinks)	
	ScAn.vr	Displayed when setting the continuous operation speed	“9.6 Programming a Continuous Operation”(P.59)
	SPd.Ptn00 } SPd.Ptn03	Displayed when selecting the variable speed operation method.	“9.10 Programming a Variable Speed Operation”(P. 66)
	SU-Sd	Displayed when setting the acceleration /deceleration rate	“9.5.1 Programming the Acceleration /Deceleration Rate”(P.57)
	t.Ho	Displayed immediately after selecting test mode Displayed when selecting a return to mechanical home operation in test mode (display blinks during operation)	These displays indicate the operations for manual execution under test mode. Pressing the SET key will execute the operation displayed. “12. Confirming Operation Manually”(P. 96)

1 6. OP200A Display Summary

OP200A Display	Information Displayed	Description	Details/Page Reference
	t.no-001 } t.no-240	Displayed when selecting a positioning operation in test mode (sequence/profile number is displayed) (display blinks during operation)	These displays indicate the operations for manual execution under test mode. Pressing the SET key will execute the operation displayed. "12. Confirming Operation Manually" (P. 96)
	t.rtn	Displayed when selecting a return to electrical home operation in test mode. (display blinks during operation)	
	t.ScAn	Displayed during CW continuous operation in test mode (display blinks)	
	t.-ScAn	Displayed during CCW continuous operation in test mode (display blinks)	
	t. * *	Displayed when confirming the signal input/outputs to indicate the signal condition	"10.3 Confirming I/O Signals" (P. 78)
	Unit	Displayed when setting the scaleable unit.	"9.9.1 Setting the Scaleable Unit" (P. 64)
	vr * *	Displayed when setting the operating speed	"9. Programming a Positioning Operation" (P.54~)
	vr 1 vr 2	Displayed when setting the speed for a variable speed operation.	"9.10 Programming a Variable Speed Operation" (P.66)
	v S	Displayed when setting the starting pulse speed	"9.5.2 Setting the Starting Pulse Speed" (P. 58)
	vS * *	Displayed when setting the starting pulse speed	"9.5.2 Setting the Starting Pulse Speed" (P. 58) "9.8.1 Setting the Return to the Mechanical Home Operation Starting Pulse Speed" (P. 60)

16. OP200A Display Summary

OP200A Display	Information Displayed	Description	Details/Page Reference
  (example display)	v 1 * * § v 8 * *	Displayed when setting a speed No. value which can be used as a common speed setting	Displayed when setting the speed for a positioning operation “9.4 Programming a Positioning Operation (Setting the Operating Speed)” (P. 55)
	3 SEnSor	Displayed when setting high speed home detection (“3” blinks)	The return to mechanical home detection method can be set to high speed or constant speed. 3: High speed detection method
	2 SenSor	Displayed when setting constant speed home detection (“2” blinks)	2: Constant speed detection method “9.8.3 Setting the Return to Mechanical Home Detection Method” (P.62)
 	001-016 § 225-240	Displayed when setting positioning mode	“9.3 Setting the Positioning Mode” (P.53)

17. Troubleshooting

If your stepping motor system is not functioning properly, first refer to “18. Error Code/ Alarm Summary” (P. 120) and check for any abnormal condition displayed on the OP200A control panel. If no errors or alarms are displayed, refer to the following chart and take measures as indicated. If your system is still not functioning properly, please contact your nearest sales office.

Problem	Check Points	Measures
Nothing is displayed on the OP200A	The POWER LED (green) is Off.	<p><u>Wiring Error</u></p> <p>Confirm that the DC24V power is properly connected.</p> <p><u>Insufficient power supply</u></p> <p>Is the power supply DC24V \pm 5%, 0.43A capacity?</p> <p>If the current capacity is insufficient a drop in voltage and abnormal operation will result.</p> <p>Measure the DC24V input terminal TB1 to confirm the power capacity.</p>
	The POWER LED is On.	<p><u>Cable interruption</u></p> <p>The connection cable to the OP200A may be interrupted, or the connector contact inferior.</p> <p>Change the cable if possible.</p> <p><u>Electrical noise interference</u></p> <p>Abnormal operation may occur due to noise interference. Take measures to prevent noise interference from affecting the connection cable.</p> <p>Are you using a cable other than the one provided?</p> <p>There are cables on the market which may appear to be identical, but the cable provided uses a specific lead wire arrangement. Be sure to use the cable provided.</p> <p>Also, 2 ferrite cores have been attached to the connection cable. If the cable is used without the ferrite cores, the resistance to noise will be greatly reduced. Be sure to use the cable with the ferrite cores attached.</p> <p><u>Ambient operating temperature</u></p> <p>Is the controller being used in an ambient temperature below 0°C?</p> <p>There are components within the controller which do not function normally below 0°C.</p> <p>Be sure to use the controller in an environment above 0°C</p>

17. Troubleshooting

Problem	Check Points	Measures
Pressing the OP200A control keys has no effect. (Display is On)	The OP200A "LOCK" LED is On. An unknown display appears on the OP200A. The OP200A display is normal (i.e. 「no-001」 etc. is displayed).	<u>Key lock function</u> The XG9200D-G has a "key lock" function to prevent operational errors from occurring due to unintentional touching of the control keys. The OP200A LOCK LED lights when the lock function is On. To release to lock, press ← → ↑ ↓ together until the 「Loc off」 display disappears. <u>Operational error</u> When an operational error occurs the control keys may become disabled. Take the relevant measures for each display as indicated in "18. Error Code / Alarm Summary" (P. 120). <u>Noise interference</u> The control keys may become disabled due to noise interference. Disconnect and then reconnect the connection cable, or turn the XG9200D-G power Off then On. If operation then returns to normal, noise interference was probably the cause of the malfunction. Take appropriate measures to counteract the noise interference.
The motor does not operate	Is the stepping motor losing synchronization (i.e. stalling)?	Confirm the following: 1) Confirm that the "CW" or "CCW" green LED (if existing) on the stepping motor driver is On. If On, condition is normal. 2) If the driver does not have "CW" and "CCW" LEDs, check if a sound is produced by the motor when a move command is input from the XG9200D-G. If the sound produced increases and then remains at a constant level, or is at a constant level from the start, the condition of the controller is normal. If conditions for the proceeding two points are normal, the motor is probably losing synchronization (i.e. stalling). Decrease the operating speed (VR). • If the motor does not operate after decreasing the speed to approximately 10Hz, the motor torque is probably insufficient. Reconfirm the suitability of your motor for the application. • If the motor operates normally after decreasing the speed, reset the operating speed together with the acceleration/deceleration rate(SU-Sd)and the starting pulse speed(VS).

17. Troubleshooting

Problem	Check Points	Measures
The motor does not operate.	<p>One of the following is blinking on the OP200A display:</p> <ul style="list-style-type: none"> • 「no-001」 ~ 「no-240」 • 「ScAn」 or 「-ScAn」 • 「rtn」 • 「Ho.」 <p>「PAUSE」 is blinking on the OP200A display.</p> <p>「cLS」 or 「ccLS」 is blinking on the OP200A display.</p>	<p><u>Wiring Error</u> Confirm that all connections between the XG9200D-G and the servo motor driver are correct.</p> <p><u>No power</u> Confirm that power is supplied to the servo motor driver.</p> <p><u>Operation is paused</u> Is the PAUSE signal being input? To release the signal, input an operation command.</p> <p><u>Limit sensor input</u> Is the CWLS or CCWLS (mechanical limit) being detected? To exit the limit switch, execute a continuous operation in the opposite direction of the limit switch or a return to mechanical home operation.</p>
The desired unit does not operate.	Has the desired unit been assigned the intended ID number?	<p><u>Setting error</u> Confirm that the SG9200-2G unit ID switch (SW1) is correctly set.</p> <p>Confirm that the unit selection signals (AX1 ~ AX4) from the host controller are correctly input.</p>
「E-StoP」 is blinking on the OP200A display and the control keys are disabled.	<p>Is E-STOP (emergency stop) signal disconnected?</p> <p>Is there an interruption in the signal line for the emergency stop signal?</p>	<p><u>E-STOP signal is disconnected</u> E-STOP (A-8) is normally closed. Condition is normal when E-STOP is connected to ground ("L" level). An "H" level signal is judged as input of the emergency stop signal, and 「E-StoP」 blinks on the OP200A display. If the E-STOP signal is not used, be sure to connect it to the ground.</p> <p><u>Cable interruption</u> E-STOP (A-8) is normally closed. An interruption in the signal line will be judged as an input of the emergency stop signal. Test and confirm that the signal line is not interrupted.</p>

17. Troubleshooting

Problem	Check Points	Measures
The sequence number is not displayed on the OP200A.	The number of pulses is displayed.	<u>Number of pulses displayed</u> To change the display to the sequence number, press the SET key.
Operation continues between the CW and CCW limits without stopping at the home.	Is power supplied to HOMELS? Is the signal line connected to the HOMELS?	<u>No power</u> Confirm that power is supplied to the HOMELS. <u>No connection</u> Connect the signal line to the HOMELS. Confirm that the XG9200D-G is not set to high speed home detection (3 sensor mode) for a mechanism which incorporates only 2 sensors.
Abnormal motor operation during a positioning operation.	The motor produces noise and is not moving. The desired sequence number is not selected. 「no-d」 is blinking on the OP200A after the INDEX signal is input. The correct number of pulses are set but the amount of movement differs.	<u>Loss of synchronization</u> The motor may be out of synchronization. Decrease the operating speed. If operation is normal after reducing the speed, the speed was too high. Decrease the operating speed. <u>Change the sequence number</u> Select the desired sequence using the sequence selection signals (M0 ~ M7). <u>No data is set</u> The number of pulses is not set for the selected sequence. Set the number of pulses. <u>The scaleable unit is set</u> Is the OP200A "UNIT" LED On? If On, the scaleable unit is active. For operation according to the number of pulses, return the scaleable unit to the factory set value.
Abnormal motor operation during a return to electrical home operation.	No operation occurs after the RETURN signal is input.	Is the motor already at the electrical home position? No operation will occur if the motor is already at the electrical home position.

17. Troubleshooting

Problem	Condition	Measures
Abnormal motor operation during a return to mechanical home operation.	Is the speed for the return to mechanical home operation correctly set?	<u>Change the home return speed</u> The motor may be losing synchronization. Decrease the speed for the return to mechanical home operation.
	Is the direction for the return to mechanical home operation correctly set?	<u>Change the home return direction</u> Confirm, and if necessary change the home return direction.
	Is the home offset set?	<u>Change the home offset setting</u> Adjust or disable the home offset value.
	Is the appropriate home detection method selected?	<u>Change the home detection method</u> Set the detection method to either constant speed (2 sensor mode) or high speed (3 sensor mode).
	The motor does not operate after the HOME signal is input.	Is the motor already at the mechanical home position? No operation will occur if the motor is already at the mechanical home position.
During continuous operation the motor only moves a small amount after the SCAN command is input.	Is 「cLS」 or 「ccLS」 blinking on the OP200A?	<u>Limit switch detection</u> Is the CWLS or CCWLS (mechanical limit) being detected? Exit the limit switch by inputting an operation command. When 「cLS」 is displayed input the -SCAN signal, and when 「ccLS」 is displayed input the SCAN signal.

18. Error Code / Alarm Summary

18.1 Error Code Summary

When an error is displayed on the OP200A, take the measures as indicated, and then turn the power supply Off / On.

Error Code	Error	Description	Cause / Corrective Measure
Err01	Transmission time-out error	An abnormal condition between the XG9200D-G and OP200A is preventing normal data transmission.	The module connection cable between the XG9200D-G and OP200A may be interrupted or have an poor contact etc.
Err02	OP200A receiving data error	The OP200A has received incompatible data.	Caused by using incompatible controller (XG9200D) and control panel (OP-200) models. Also caused by noise interference.
Err03	XG9200D receiving data error	The XG9200D has received incompatible data.	
Err04	OP200A receiving SUM error	The OP200A could not receive the data.	Caused by noise interference. Take appropriate measures to counteract the noise at the source, or at the connection cable between the SXG9200D and OP200A.
Err05	XG9200D receiving SUM error	The XG9200D could not receive the data.	
Err11	Scaleable unit setting error	The scaleable unit is set to "0"	Set to a value above "0" . Set to "1" when using the number of pulses as the distance parameter.
Err12	Value setting error (value exceeds the limit)	The value set exceeds the allowable limit. This error is displayed immediately after setting a value. Reset the value.	Caused when one of the following values exceeds the allowable limit. <ul style="list-style-type: none"> • Operating speed setting is over 200kHz. • Acceleration/deceleration setting is over 1000.0. • Pulse setting is over 16777215 pulses in incremental mode, and 838860 pulses in absolute mode. The error often occurs when setting the move distance. Use the following equation to confirm the number of pulses. $\text{number of pulses} = \frac{\text{move distance}}{\text{distance per pulse (unit)}}$
Err12 □□	Value setting error (when setting the scaleable unit)	After setting the scaleable unit, the pulse value converted to a distance value exceeds the limit. The relevant profile number is indicated within □□ . If there are errors for more than one profile, these profiles can be displayed by pressing ↑ or ↓ . The pulse value is automatically set to "0" .	Confirm the number of pulses as for Err12 above. Reset the values after pressing the SET key to exit the error display.

18. Error Code / Alarm Summary

Error Code	Error	Description	Cause/Corrective Measure
Err13	Positioning mode selection error for a variable speed operation	A sequence which is set to absolute positioning mode is selected for a method 2 or method 3 variable speed operation.	Exit the error display by pressing either \uparrow or \downarrow and then carry out one of the following measures. <ul style="list-style-type: none"> • Cancel the variable speed operation or select variable speed operation method 1 (variable speeds with one number of pulses setting). • Change the positioning mode setting to incremental mode.
Err-Un	Initial transmission error	Transmission between the XG9200D-G and OP200A has not begun due to an abnormality. Even after setting the scaleable unit, the value is displayed as 1.0000.	Disconnect and then reconnect the modular cable. If the error remains, initialize the data. For initialization instructions refer to "9.12 Clearing Data" (P. 71).
Err21	Limit input logic error	The CWLS and CCWLS are input at the same time.	The type of limit switch (normally open/ normally closed) does not match the SG9200-2G dip switch setting. Change the input logic setting. For a normally closed type limit switch, it is possible that the signal lines for both switches are interrupted.
Err22	Wrong return home starting direction	CWLS or CCWLS is input at the same time as the HOMELS. The home position is located within either the CWLS or CCWLS.	Change the return home starting direction. Change the direction by adding or deleting "-" under the return to mechanical home operating speed setting 「Ho.vr」.
Err23	The limit input connections are opposite	The limit detected is opposite to the direction of rotation. (The CCW limit is input when rotating in the CW direction and vice versa.)	Switch the CWLS and CCWLS connections.
Err24	ZSG signal or position sensor signal error.	During home detection the ZSG signal or position sensor signal is not detected while the HOMELS is input	The ZSG signal or position sensor signal must be input while the HOMELS is input. Change the motor position or adjust the HOMELS position.
Err25	No HOMELS detection	Occurs under the following conditions during a return to mechanical home operation when high speed / 3 sensor mode selected. <ul style="list-style-type: none"> • For CW starting direction: when CCWLS is detected after CWLS • For CCW starting direction: when CWLS is detected after CCWLS 	The HOMELS is not detected. Check the following conditions. <ul style="list-style-type: none"> • HOMELS is not connected. → Connect the HOMELS • The HOMELS input time is under 10ms. → Ensure the input time is over 10ms. • Only 2 limit sensors are used. → Select constant speed detection (2 sensor mode) for the return to mechanical home detection method.
Err31	Electrical home return pulse range exceeded	The counter for the return to electrical home operation is exceeding 16777215 CW pulses or 16777216 CCW pulses.	A home return through the return to electrical home operation is not possible. Use the return to mechanical home operation.

18. Error Code / Alarm Summary

Error Code	Error	Description	Cause/Corrective Measure
Err32	Absolute pulse range error	Occurs in absolute positioning mode after inputting the INDEX signal when the load is positioned outside the range of +8388607~-8388608 pulses.	Return to the home position through a return to mechanical home operation.
Err41	S-CHG signal input error during acceleration/ deceleration	The S-CHG signal is input during acceleration/ deceleration. This only occurs during variable speed operation method 1 (Variable speeds within one pulse number setting)	Do not input the S-CHG signal during acceleration/ deceleration. After this error is displayed proceed to the next operation.
Err42	Pulse number setting error for a variable speed operation	The motor did not decelerate properly. This only occurs during variable speed operation method 2 (Operation of the set number of pulses after the S-CHG signal is input)	In order to execute proper deceleration, set the correct number of pulses as determined through the following equation. $\text{number of pulses} = TR (VR^2 - VS^2) \times 10^{-6}$ <p>TR : acceleration/deceleration rate (SU-Sd) VR : operating speed VS : starting pulse speed</p>

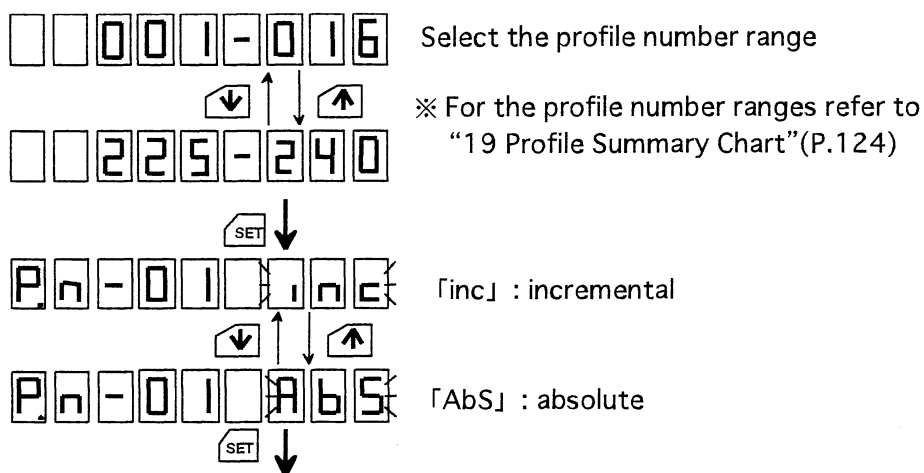
18. Error Code / Alarm Summary

18.2 Alarm Summary

OP200A Display	Condition
AL	The alarm signal from the servo motor driver is being input. When using an Oriental Motor AC servo motor/driver, a protective function of the servo driver will bring the motor to natural stop. After taking appropriate measures to correct the condition causing input of the alarm signal, reset the servo driver through a power Off/On cycle. For details refer to the servo motor driver operating manual.
cLS	The CW limit switch is being input. Check the present position, then execute a return to mechanical home operation and restart operation. If only exiting the CW limit switch is required, input the -SCAN or SCAN, and stop at a position outside the CWLS.
ccLS	The CCW limit switch is being input. Check the present position, then execute a return to mechanical home operation and restart operation. If only exiting the CCW limit switch is required, input the -SCAN or SCAN, and stop at a position outside the CWLS.
E-StoP	The emergency stop signal is being input, or the E-STOP signal (CN3: A-8) is not connected. E-STOP connected to GND (CN3: A12, B12) ("L" level) is the normal use condition. If the emergency stop signal is not used be sure to keep it connected to GND.

19. Sequence Summary Chart

The positioning mode can be set to either incremental mode(positioning relative to the current position), or absolute mode(positioning relative to the electrical "home" position), refer to "9.3 Setting the Positioning Mode" (P.53)



Positioning mode selection complete

profile number range	001～016
	017～032
	033～048
	049～064
	065～080
	081～096
	097～112
	113～128
	129～144
	145～160
	161～176
	177～192
	193～208
	209～224
	225～240

19. Sequence Summary Chart

Use the following chart to record the positioning data for motion profile used in your application.

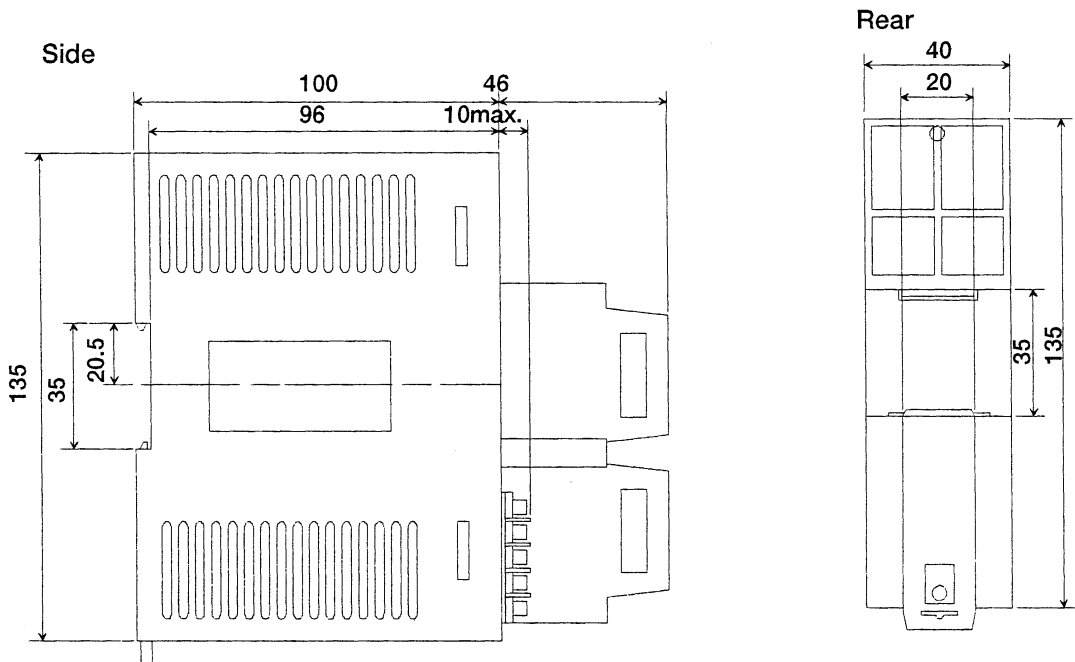
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Profile	Data	Profile	Data	Profile	Data	Profile	Data
01		26		51		76	
02		27		52		77	
03		28		53		78	
04		29		54		79	
05		30		55		80	
06		31		56		81	
07		32		57		82	
08		33		58		83	
09		34		59		84	
10		35		60		85	
11		36		61		86	
12		37		62		87	
13		38		63		88	
14		39		64		89	
15		40		65		90	
16		41		66		91	
17		42		67		92	
18		43		68		93	
19		44		69		94	
20		45		70		95	
21		46		71		96	
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23		48		73		98	
24		49		74		99	
25		50		75		00	

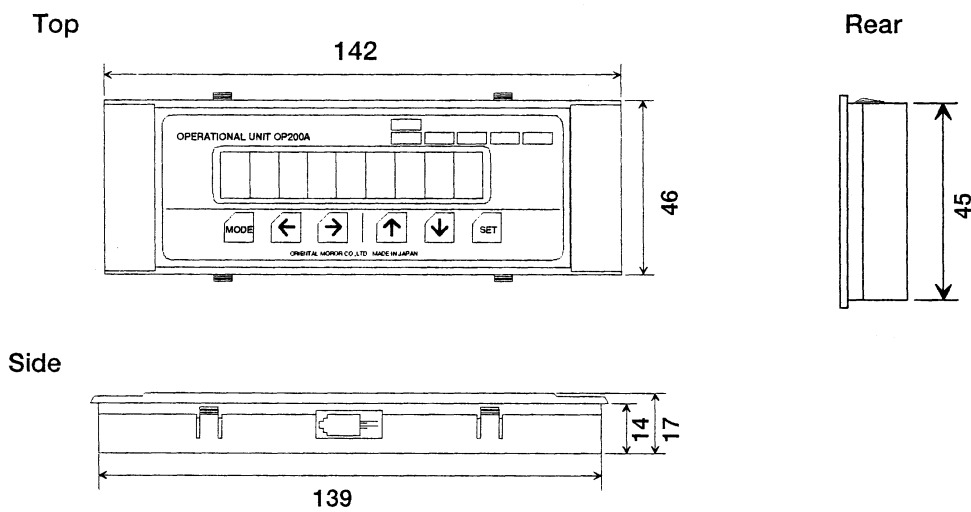
20. Dimensions

XG9200D-G

[Unit: mm]



OP200A



21. Specifications

XG9200D2G / OP200A

	XG9200D
Positioning Data	Up to 240 motion profiles (EEP-ROM recorded) Motion profiles executed in numerical order ※ Use the OP200A control panel for setting
Positioning Modes	Incremental mode or absolute mode Pulse range per profile: Incremental mode: $\pm 0 \sim 16777215$ pulses Absolute mode: -8388608 pulses $\sim +8388607$ pulses Operating speed: 10Hz \sim 200kHz (settings in 10Hz increments) Acceleration/deceleration rate: 0.1 \sim 1000.0 ms/kHz (settings in 0.1ms/kHz increments)
Control Modes	Program mode (PROG), external input mode (EXT), test mode (TEST)
Operation Modes	<ul style="list-style-type: none"> • Positioning operation (INDEX) • Return to mechanical home operation (HOME) • Continuous operation (SCAN, -SCAN) • Return to electrical home operation (RETURN)
Mechanical Home Return Function	Home return from any point through detection signals (CWLS, CCWLS, HOMEELS).
Input Signals	DC24V, optically isolated, input resistance 4.7 k Ω
DIP Switches	Z phase signal enable/disable, position sensor enable/disable, limit input logic select
Output Signals	Open collector output
Power Supply	DC24V \pm 5%
Current	0.43A max.
External Dimensions	XG9200D-G: 40(W) \times 135(H) \times 100(D) mm OP200A : 142(W) \times 48(H) \times 17(D) mm
Weight	XG9200D-G: 0.27kg OP200A: 0.06kg
Ambient Operating Temperature	0°C \sim + 50°C (non-freezing)
Ambient Operating Humidity	20% \sim 85% (non-condensing)

22. Optional Cables

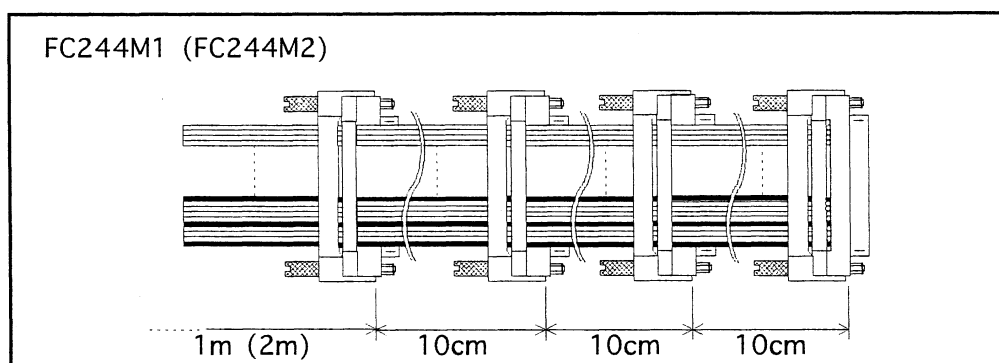
The connectors to connect the XG9200D-G, stepping motor driver, and limit switches are provided, but the cables are user supplied.

Cables specifically designed for connecting the XG9200D-G, stepping motor driver, and limit switches are available from Oriental Motor.

- Flat cable for connector CN2
 FC16S1-2 length : 1m
 FC16D2-2 length : 2m
 Connects the XG9200D-G to the host controller (output signals to host controller and input signals from sensors) .
 (16 pin connector included)
- Flat cable for connector CN3
 FC244M1 length : 1m
 FC244M2 length : 2m
 Connects the XG9200D-G to the host controller (input signals from the host controller) .
 (24 pin connector included)

Incorporates four plug type connectors and can connect up to four XG9200D-G units in a daisy chain configuration.

If using 3 or fewer XG9200D-G units, modify the cable accordingly.



- FC24D1 length : 1m
 FC24D2 length : 2m
 Use this cable when operating only one XG9200D-G unit.
- Flat cable for connector CN4
 FC24D1 length : 1m
 FC24D2 length : 2m
 Connects the XG9200D-G to the stepping motor driver.
 (24 pin connector included)

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