Step Motor Controller

Controller with STO Sub-Function

JXC F Series





EtherCAT/EtherNet/IP™/PROFINET/IO-Link Direct Input Type

- Step Motor (Servo/24 VDC)
- Fieldbus direct input
- Numerical data/step data (64 points) defined operation

With STO Sub-Function



igodot Two types of operation command

Step no. defined operation: Operate using the preset step data in the controller. Numerical data defined operation: The actuator operates using values such as position and speed from the PLC.

ONumerical monitoring available

Numerical information, such as the current speed, current position, and alarm codes, can be monitored on the PLC.

- **○**Transition wiring of communication cables
 - Two communication ports are provided.
 - * 1 to 1 in the case of IO-Link



With STO Sub-Function

Safety function/STO, SS1-t (EN 61800-5-2)

When the STO signal is input from the safety device, after the SS1-t operation is completed, the unit shifts to the STO operation and the power supply of the motor is turned OFF.



SS1-t operation: Safe Stop 1—After an application-specific delay time, a shift to the STO operation occurs.

STO operation: Safe Torque Off—The power supply of the motor is turned OFF.



Certified by a third-party organization

Facilitates the safety designing of equipment and facilities (compliant with ISO/IEC standards)



EN 61508-1/2 SIL 3*1 EN 62061 SIL CL 3*1 EN ISO 13849-1 Cat. 3 PL e EN 61800-5-2 STO, SS1-t

SIL (Safety Integrity Level)

A safety integrity level as defined by international standard IEC 61508/62061 There are 4 levels of safety, with the lowest being SIL 1 and the highest being SIL 4.

PL (Performance Level)

A scale used to define the capability of safety-related parts to perform a safety function as defined by international standard ISO 13849

There are 5 levels of safety function, with the lowest being PL a and the highest being PL e.

*1 The above safety integrity level is the max. value. The achievable level varies depending on the configuration and inspection method of the component. Be sure to refer to "Safety Manual for more information. ACT

Controller Setting Software ACT Controller 2

Easy-to-use setting software ACT Controller 2 (For PC)

Various functions available in normal mode (Compared with the existing ACT Controller)

• Parameter and step data setting



* Customers operating computers with specifications other than Windows 10/64 bit and Windows 11 should use the existing ACT Controller.

Alarm confirmation

| | | 11/10/10/10 | Alarms and counterme | asures | | | | | |
|-----------|--------|------------------|----------------------|--|--|--|--|--|--|
| U | urrent | HISTORY | 01-051 | (< (1 /1 >) >> | | | | | |
| No. | Code | Alar | Name | Operation data error | | | | | |
| 1 | 01-051 | The step data is | Contents | The step data is not registered. | | | | | |
| 2 | | | Condition | For an operation for a specific step data no, the requested | | | | | |
| 3 | | | | number of the step data is not registered. | | | | | |
| 4 | | | | (When operation is commanded through PLC, this alarm will be | | | | | |
| 5 | | | | time of signals) | | | | | |
| 6 | | | | -For LECDA controllerox | | | | | |
| 7 | 7 8 | | | Generated when test operation is performed by the teaching bo or Controllersetting kit. | | | | | |
| Counterme | | | | (1) Make sure that the "Movement MOD" of the step data is not "Blank (Disabled)". (2) Process delay of PLC or scanning delay of the controller ma occur. Keep the input signal combination for 15 ms (30 ms if possible) or longer. | | | | | |
| | | | | <for controllers="" lecpa=""> (1) Check if "Operation" of the step data is "Blank (Invalid data)" (2) This product cannot perform test operation by the teaching box or Controller setting kit.</for> | | | | | |
| | | | How to deactivate | RESET input | | | | | |
| | | | | <pre><for controllers="" lecpa=""> RESET SVON input</for></pre> | | | | | |

When an alarm is generated, the alarm details and countermeasures can be confirmed.

| Total C | ount | 97 | |
|---------|------------------------------|-------------------------|---|
| # 🔺 | Cumulative operating time | Alarm Data | ^ |
| 27 | 0:00:00 | 192: Encoder error | |
| 28 | 0:00:00 | 192: Encoder error | |
| 29 | 0:00:00 | 192: Encoder error | |
| 30 | 0:00:07 | 198: Polarity not found | |
| 31 | 1:00:00 | 192: Encoder error | |
| 32 | 3:00:00 | 192: Encoder error | |
| 33 | 3:00:00 | 153: AbEnc ID ALM | |
| 34 | 3:03:28 | 144: Over speed | ~ |

When an alarm is generated, the cumulative startup time of the controller can be confirmed.

Waveform monitoring



The position, speed, force, and input/output signals' waveform data during operation can be measured.

* When using the ACT Controller 2 test operation function, waveform monitoring is not available.

Controller Setting Software ACT Controller 2

• The JXC-BC writing tool

ACT



The writing tool can be used to write the connected actuator's parameters and step data to a JXC series blank controller.

• Customizable plug-in functions

| Setup | | | * |
|---|---|---|--|
| Basic settings Comms settings Plugins | Plugins available Data writing tool for JXC-BC Data Log Viewer Parameter Status Step Data Teaching Wave Monitor | 1.2.0.0 (V1.10) 1.0.0.0 1.2.0.0 (V1.20) 1.0.0.0 1.2.0.0 (V1.00) 1.0.0.0 1.2.0.0 | Move Up Item Move Down Item Add Plugin |
| | Data writing tool for JXC-BC Initialize the actuator parameters. | < _ | |
| | | Cancel | ок |

Which plug-in functions are displayed as well as the display order are customizable. Customers can add the functions they require.

In normal mode, various other test operation methods (program operation, jogging, moving of the constant rate, etc.), signal status monitoring, one-touch switching between Japanese and English, and other functions are available.

For immediate use, operate in easy mode.

| File(F) Edit(E | i) Option(C |) Help(H) | | | | | | | | | | | | |
|-------------------|-------------|---------------|----------------|-----------------|-----------------|----------|-----------|-----------|--------------|-------------|-------------|---------------|---------|------------|
| 01 - LE1 | /32B-100 | | | Monitor | Mode | Test Mod | de | | D | | | | | SVRE |
| No. 0 | | Desition | 0.00 | | Second | 0 | mm / a | Form | 0 % | | | | | BUSY |
| NU. U | | POSILION | 0.00 | | Sheen | 0 | mm/s | Force | 0 76 | | | | | INP |
| Jog | | M | ove Distanc | e 1.00 | 🐑 mm | | Move | • • | | | | | | SETON |
| Move Sp | eed | | | | | 10 m | m/s | | | | | | | |
| Get | Positon | | | | | | | Reset | \supset | | | | | Show Alarm |
| Step D | ata Li | st | Item set | tting | | | | | | | | | | |
| No. Operations | Move M | Speed mm/s | Position mm | Accel mm/s^2 | Decel mm/s^2 | PushingF | TriggerLV | PushingSp | MovingF % | Area1 mm | Area2 mm | In Posn mm | Comment | ^ |
| 0 1 (Posn) | Absolute | 100 | 100.00 | 3000 | 3000 | 0 | | | 100 | 0.00 | 2.00 | 0.50 | | |
| 2 (Posn) | Absolute | 100 | 0.00 | 3000 | 3000 | 0 | | | 100 | 0.00 | 2.00 | 0.50 | | |
| 3 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |

Step data setting, various test operations, and status confirmation can be done on a single screen.

How to download the setting software







Step Motor ControllerJXCEF/9F/PF/LF SeriesJCEF/9F/PF/LF Series



How to Order



* Refer to the operation manual for using the products. Please download it via our website: https://www.smcworld.com

Precautions for blank controllers (JXC A blank controller is a controller to which the customer can write the data of the actuator it is to be combined and used with. For data writing, use the controller setting software ACT Controller 2 or the dedicated software JXC-BCW. • Both ACT Controller 2 and JXC-BCW can be downloaded from the SMC website. • To use this software, order the communication cable for controller setting (JXC-W2A-C) and the USB cable (LEC-W2-U) separately. Hardware Requirements Windows®10 os Windows®11 Windows®7 Windows®8 Windows®10 (64 bit) ACT Controller 2 JXC-BCW Software (With JXC-BCW function)

Windows®7, Windows®8, Windows®10, and Windows®11 are registered trademarks of Microsoft Corporation in the United States.

SMC website: https://www.smcworld.com

JXCEF/9F/PF/LF Series

Specifications

| _ | | | | | | | | | | | |
|------------------|-----------------------|------------------------|-------------------------------------|--------------------------------|------------------------------|------------------------------|--|--|--|--|--|
| | Mo | odel | JXCEF | JXC9F | JXCPF | JXCLF | | | | | |
| Ne | etwork | | EtherCAT | EtherNet/IP™ | PROFINET | IO-Link | | | | | |
| Сс | ompatik | ole motor | | Step motor (S | ervo/24 VDC) | | | | | | |
| Pc | wer su | pply | | Power voltage: | 24 VDC ±10% | | | | | | |
| Cur | rent consun | ption (Controller) | 200 mA or less | 130 mA or less | 200 mA or less | 100 mA or less | | | | | |
| Co | mpatib | le encoder | | Incremental/Batte | ery-less absolute | | | | | | |
| ns | 2 Applicable Protocol | | EtherCAT*2 | EtherNet/IP ^{™*2} | PROFINET*2 | IO-Link | | | | | |
| l⊖ | Applicable | Versien*1 | Conformance Test | Volume 1 (Edition 3.14) | Specification | Version 1.1 | | | | | |
| fice | system | version | Record V.1.2.6 | Volume 2 (Edition 1.15) | Version 2.32 | Port Class A | | | | | |
| speci | Comm | nunication | 100 Mbps* ² | 10/100 Mbps* ² | 100 Mbps*2 | 230.4 kbps | | | | | |
| tion | speed | | | (Automatic negotiation) | | (COM3) | | | | | |
| <u>ica</u> | Config | uration file*3 | ESI file | EDS file | GSDML file | IODD file | | | | | |
| E | I/O oc | cupation | Input 20 bytes | Input 36 bytes | Input 36 bytes | Input 14 bytes | | | | | |
| Ē | area | | Output 36 bytes | Output 36 bytes | Output 36 bytes | Output 22 bytes | | | | | |
| ပိ | Termina | ating resistor | | Not inc | cluded | | | | | | |
| Me | emory | | | EEPI | ROM | | | | | | |
| LE | D indic | cator | PWR, ALM, RUN, ERR | PWR, ALM, MS, NS | PWR, ALM, COM | | | | | | |
| Ca | ble len | igth [m] | Actuator cable: 20 or less | | | | | | | | |
| Co | oling s | system | Natural air cooling | | | | | | | | |
| Ope | rating temp | erature range [°C] | 0 to 55 (No freezing)* ⁵ | | | | | | | | |
| Оре | rating hum | idity range [%RH] | 90 or less (No condensation) | | | | | | | | |
| Er | nclosur | e | IP30 (Excludes the connector) | | | | | | | | |
| Ins | ulation re | sistance [M Ω] | | Between all external terminals | s and the case: 50 (500 VDC) | | | | | | |
| Safety function | | nction | STO,SS1-t | STO,SS1-t | STO,SS1-t | STO, SS1-t | | | | | |
| Safety standards | | | EN61508 SIL3*4 | EN61508 SIL3*4 | EN61508 SIL3*4 | EN 61508 SIL 3*4 | | | | | |
| | | andards | EN62061 SIL CL3*4 | EN62061 SIL CL3*4 | EN62061 SIL CL3*4 | EN 62061 SIL CL 3*4 | | | | | |
| | - | | EN ISO13849-1 Cat.3 PLe*4 | EN ISO13849-1 Cat.3 PLe*4 | EN ISO13849-1 Cat.3 PLe*4 | EN ISO 13849-1 Cat. 3 PL e*4 | | | | | |
| W | eight | Screw mounting | 250 | 240 | 250 | 220 | | | | | |
| [g] | Ī | DIN rail mounting | 270 | 260 | 270 | 240 | | | | | |

*1 Please note that versions are subject to change.

*2 Use a shielded communication cable with CAT5 or higher for the PROFINET, EtherNet/IP™ and EtherCAT.

*3 The files can be downloaded from the SMC website.

*4 The above safety integrity level is the max. value. The achievable level varies depending on the configuration and inspection method of the component. Be sure to refer to "Safety Manual for more information. *5 If the vertical work load for the LEY40□E or LEYG40□E series product is equal to or greater than the weight below, use the controller at an ambient temperature at 40°C or less.

| Series | Weight [kg] | Series | Weight [kg] |
|----------|-------------|-----------|-------------|
| LEY40 EA | 9 | LEYG40⊟EA | 7 |
| LEY40 EB | 19 | LEYG40 EB | 17 |
| LEY40 EC | 38 | LEYG40 EC | 36 |

■Trademark

EtherNet/IP® is a registered trademark of ODVA, Inc.

EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

Example of Operation Command

In addition to the step data input of 64 points maximum in each communication protocol, the changing of each parameter can be performed in real time via numerical data defined operation. * Numerical values other than "Moving force," "Area 1," and "Area 2" can be used to perform operation under numerical instructions from JXCL.

<Application example> Movement between 2 points

| No. | Movement mode | Speed | Position | Acceleration | Deceleration | Pushing force | Trigger I V | Pushing speed | Moving force | Area 1 | Area 2 | In position |
|-----|---------------|-------|----------|--------------|--------------|---------------|-------------|---------------|--------------|--------|--------|-------------|
| 0 | 1: Absolute | 100 | 10 | 3000 | 3000 | 0 | 0 | 0 | 100 | 0 | 0 | 0.50 |
| 1 | 1: Absolute | 100 | 100 | 3000 | 3000 | 0 | 0 | 0 | 100 | 0 | 0 | 0.50 |

<Step no. defined operation>

Sequence 1: Servo ON instruction

Sequence 2: Instruction to return to origin

Sequence 3: Specify step data No. 0 to input the DRIVE signal.

Sequence 4: Specify step data No. 1 after the DRIVE signal has been

temporarily turned OFF to input the DRIVE signal.

<Numerical data defined operation>

Sequence 1: Servo ON instruction

Sequence 2: Instruction to return to origin

Sequence 3: Specify step data No. 0 and turn ON the input instruction flag (position). Input 10 in the target position. Subsequently the start flag turns ON.

Sequence 4: Turn ON step data No. 0 and the input instruction flag (position) to change the target position to 100 while the start flag is ON.

The same operation can be performed with any operation command.

| Sequence 1- | | | | |
|--------------------------|----------|----|------------|-----|
| _ | . | | | |
| Sequence 2→ | | | | |
| | 4 | | | |
| Sequence $3 \rightarrow$ | | _ | | |
| | | | | |
| Sequence 4→ | | | | |
| | 0 | 10 | | 100 |
| | | | SMC | |

How to Mount



* When size 25 or more of the LE series are used, the space between the controllers should be 10 mm or more.

DIN rail AXT100-DR-⊡

For □, enter a number from the No. line in the table below.
 Refer to the dimension drawings on page 40 for the mounting dimensions.



L Dimensions [mm]

| No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| L | 23 | 35.5 | 48 | 60.5 | 73 | 85.5 | 98 | 110.5 | 123 | 135.5 | 148 | 160.5 | 173 | 185.5 | 198 | 210.5 | 223 | 235.5 | 248 | 260.5 |
| No. | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| L | 273 | 285.5 | 298 | 310.5 | 323 | 335.5 | 348 | 360.5 | 373 | 385.5 | 398 | 410.5 | 423 | 435.5 | 448 | 460.5 | 473 | 485.5 | 498 | 510.5 |

DIN rail mounting adapter LEC-3-D0 (with 2 mounting screws)

This should be used when the DIN rail mounting adapter is mounted onto a screw mounting type controller afterward.

JXCEF/9F/PF/LF Series

Dimensions



DIN rail mounting adapter



4.5

4.5

Options

Power supply plug JXC-CPW

* The power supply plug is an accessory.



Power supply plug

| Terminal name | Function | Details |
|---------------|--------------------------|---|
| 0V | Common supply (–) | The M24V terminal, C24V terminal, EMG terminal, and LK RLS terminal are common (–). |
| M24V | Motor power supply (+) | Motor power supply (+) of the controller |
| C24V | Control power supply (+) | Control power supply (+) of the controller |
| EMG | Stop (+) | Connection terminal of the external stop circuit |
| LK RLS | Lock release (+) | Connection terminal of the lock release switch |

Communication plug connector

For IO-Link Straight type JXC-CL-S

Communication plug connector for IO-Link

 The communication plug connector for IO-Link is an accessory.



| connector for IO-Link | | | | | | | | | |
|-----------------------|---------------|---------|--|--|--|--|--|--|--|
| Terminal no. | Terminal name | Details | | | | | | | |
| 1 | L+ | +24 V | | | | | | | |
| 0 | NC | NI/A | | | | | | | |

| 1 | LT | + 24 V | | | | |
|---|-----|----------------|--|--|--|--|
| 2 | NC | N/A | | | | |
| 3 | L– | 0 V | | | | |
| 4 | C/Q | IO-Link signal | | | | |
| | | | | | | |

Communication cable for controller setting



STO signal plug JXC-CSTO

∗ Included with the JXC□F



STO signal plug

| Pin no. | Signal name | Details |
|---------|-------------|----------------------------|
| 1 | 24V | +24 V output (Max. 100 mA) |
| 2 | STO1 | STO input 1 |
| 3 | STO2 | STO input 2 |
| 4 | Feedback 1 | STO1 feedback signal |
| 5 | Feedback 2 | STO2 feedback signal |

■ DIN rail mounting adapter LEC-3-D0

* With 2 mounting screws

This should be used when the DIN rail mounting adapter is mounted onto a screw mounting type controller afterward.

■ DIN rail AXT100-DR-□

∗ For □, enter a number from the No. line in the table on page 39. Refer to the dimension drawings on page 40 for the mounting dimensions.

How to Order



A set which includes a communication cable (JXC-W2A-C) and a USB cable (LEC-W2-U)

Actuator Cable 1

[Robotic cable for battery-less absolute (Step motor 24 VDC)]

| LE- | -CE-1 | |
|----------------------|------------------|--|
| Cable length (L) [m] | | |
| 1 | 1 1.5 | |
| 3 | 3 | |
| 5 | 5 | |
| 8 | 8*1 | |
| Α | 10*1 | |
| В | 15* ¹ | |
| С | 20*1 | |

*1 Produced upon receipt of order

Weight

| V | | |
|-------------|------------|---------------|
| Product no. | Weight [g] | Note |
| LE-CE-1 | 190 | |
| LE-CE-3 | 360 | |
| LE-CE-5 | 570 | |
| LE-CE-8 | 900 | Robotic cable |
| LE-CE-A | 1120 | |
| LE-CE-B | 1680 | |
| LE-CE-C | 2210 | |





[Robotic cable with lock for battery-less absolute (Step motor 24 VDC)]



Connector A (Terminal no.) Connector B (14.2)(ø5.5) (ø6.7) (Terminal no.) Connector D AF -2 -6 (<u>13.5)</u> 12.2) 5 Ш -2 him 1 3 (18) -16 AB 15 Connector C (10.2) Connector E (10) (14.7) (30.7) (11) L

| | | | A | B |
|-------------|------------|---------------|-----------|--------|
| | | | Ā | A |
| Weight | | | В | B |
| Troigin | | •• · | B | A |
| Product no. | Weight [g] | Note | COM-A/COM | B |
| LE-CE-1-B | 240 | | COM-B/— | A |
| LE-CE-3-B | 460 | | Signal | Conne |
| LE-CE-5-B | 740 | | Signai | termin |
| LE-CE-8-B | 1170 | Robotic cable | Vcc | B |
| LE-CE-A-B | 1460 | | GND | A |
| | 0100 | | Ā | B |
| LE-CE-B-B | 2120 | | A | A |
| LE-CE-C-B | 2890 | | B | B |
| | | | В | A |
| | | | SD+ (RX) | B |
| | | | 0.0 (70.0 | |

| Signal | Connector A terminal no. | | Cable color | Connector D terminal no. |
|------------|-----------------------------|---------------------------------------|-------------|--------------------------|
| А | B-1 · | •• | Brown | 2 |
| Ā | A-1 | •• | Red | 1 |
| В | B-2 | •• | Orange | 6 |
| B | A-2 | | Yellow | 5 |
| COM-A/COM | B-3 | | Green | 3 |
| COM-B/ | A-3 | | Blue | 4 |
| Signal | Connector B terminal no. | Shield | Cable color | Connector E terminal no. |
| Vcc | B-1 · | | Brown | 12 |
| GND | A-1 | | Black | 13 |
| Ā | B-2 | | Red | 7 |
| A | A-2 | | Black | 6 |
| B | B-3 | | Orange | 9 |
| В | A-3 | | Black | 8 |
| SD+ (RX) | B-4 | | Yellow | 11 |
| SD- (TX) | A-4 | | Black | 10 |
| | Connector C | · · · · · · · · · · · · · · · · · · · | Black | 3 |
| Signal | terminal no. | | | |
| Lock (+) | B-1 | | Red | 4 |
| Lock (-) | A-1 | | Black | 5 |
| Sensor (+) | B-3 | · · · · · · · · · · · · · · · · · · · | Brown | 1 |
| Sensor (-) | A-3 | | Blue | 2 |

LE-C LE-C LE-C

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Actuator Cable 2

[Robotic cable, standard cable for incremental (Step motor 24 VDC)]

Compatible controllers



GND

В

Signal

Lock (+)

Lock (-)

Sensor (+) Sensor (-) A-4

B-5

A-5

B-6

A-6

Connector B

terminal no.

B-1

A-1 B-3

A-3

SMC

 $\sim \sim$

43

Black

Red

Black

Orange

Black

Red

Black

Brown

Blue

13

6

9

3



JXC

LEC-T1 Teaching Box



How to Order





Specifications

| Standard | functi | ons | |
|----------|--------|-----|--|
| | _ | | |

- Chinese character display
- Stop switch is provided.

Option

• Enable switch is provided.

| Item | Description | |
|----------------------------------|-------------------------------------|--|
| Switch | Stop switch, Enable switch (Option) | |
| Cable length [m] | 3 | |
| Enclosure | IP64 (Except connector) | |
| Operating temperature range [°C] | 5 to 50 | |
| Operating humidity range [%RH] | 90 or less (No condensation) | |
| Weight [g] | 350 (Except cable) | |
| | | |

[UL-compliant products] When compliance with UL is required, the electric actuator and controller should be used with a UL1310 Class 2 power supply.

Easy Mode

| Function | Details |
|------------|--|
| Step data | Setting of step data |
| Jog | Jog operationReturn to origin |
| Test | 1 step operation Return to origin |
| Monitor | Display of axis and step data no. Display of two items selected from Position, Speed, Force. |
| ALM | Active alarm displayAlarm reset |
| TB setting | Reconnection of axis (Ver. 1.**) Displayed language setting (Ver. 2.**) Setting of easy/normal mode Setting step data and selection of items from easy mode monitor |

Menu Operations Flowchart





Teaching Box LEC-T1

Normal Mode

| Function | Details | | |
|------------|--|--|--|
| Step data | Step data setting | | |
| Parameter | Parameters setting | | |
| Test | Jog operation/Constant rate movement Return to origin Test drive (Specify a maximum of 5 step data and operate.) Forced output (Forced signal output, Forced terminal output) | | |
| Monitor | Drive monitor Output signal monitor Input signal monitor Output terminal monitor Input terminal monitor | | |
| ALM | Active alarm display (Alarm reset) Alarm log record display | | |
| File | Data saving Save the step data and parameters of the controller which is being used for communication (it is possible to save four files, with one set of step data and parameters defined as one file). Load to controller Loads the data which is saved in the teaching box to the controller which is being used for communication. Delete the saved data. File protection (Ver. 2.**) | | |
| TB setting | Display setting (Easy/Normal mode) Language setting (Japanese/English) Backlight setting LCD contrast setting Beep sound setting Max. connection axis Distance unit (mm/inch) | | |
| Reconnect | Reconnection of axis | | |

Menu Operations Flowchart

Menu

Step data

Parameter

TB setting

Reconnect

Monitor

Test

ALM File



Dimensions



| No. | Description | Function | |
|-----|---------------------------|---|--|
| 1 | LCD | A screen of liquid crystal display (with backlight) | |
| 2 | Ring | A ring for hanging the teaching box | |
| 3 | Stop switch | When switch is pushed in, the switch locks and stops. The lock is released when it is turned to the right. | |
| 4 | Stop switch guard | A guard for the stop switch | |
| 5 | Enable switch (Option) | Prevents unintentional operation (unexpected operation) of the jog test function. Other functions such as data change are not covered. | |
| 6 | Key switch | Switch for each input | |
| 7 | Cable | Length: 3 meters | |
| 8 | Connector | A connector connected to CN4 of the controller | |