Wiring Method for LECSA

Main Circuit Power Supply Connector (Accessory): CNP1

Control circuit power supply (24 VDC) supplied to the driver

Control circuit power supply (0 V) side of the control circuit power supply (24 VDC) supplied to the driver

Protective earth (PE)

Terminal name Function

L1 Protective earth (PE)

L2 Main circuit power supply (24 VDC)

P C Main circuit power supply (24 VDC)

Terminal to connect regeneration option.

LECSA/S3/S4: Not connected at time of shipping.

Note) For PNP (source), the signal cannot be assigned to the pin 23 or 25.

I/O connector (Option): CN1

Connect to motor cable (U Red), (V White), (W Black)

Part no.:

USB cable

Provided by customer

Part no.:

24 VDC LEC-MR-J3USB

PC

Provided by customer

Part no.:

24 VDC LEC-MSR-P1

V Servo motor power (V)

W Servo motor power (W)

Main Circuit Power Supply Connector (Accessory): CNP2

Control circuit power supply (24 VDC) supplied to the driver

Control circuit power supply (0 V) side of the control circuit power supply (24 VDC) supplied to the driver

Protective earth (PE)

Terminal name Function

L1 Protective earth (PE)

L2 Main circuit power supply (24 VDC)

P C Main circuit power supply (24 VDC)

Terminal to connect regeneration option.

LECSA/S3/S4: Not connected at time of shipping.

Note) For PNP (source), the signal cannot be assigned to the pin 23 or 25.

I/O connector (Option): CN1

Connect to motor cable (U Red), (V White), (W Black)

Part no.:

USB cable

Provided by customer

Part no.:

24 VDC LEC-MR-J3USB

PC

Provided by customer

Part no.:

24 VDC LEC-MSR-P1

V Servo motor power (V)

W Servo motor power (W)

Main Circuit Power Supply Connector (Accessory): CNP1

Control circuit power supply (24 VDC) supplied to the driver

Control circuit power supply (0 V) side of the control circuit power supply (24 VDC) supplied to the driver

Protective earth (PE)

Terminal name Function

L1 Protective earth (PE)

L2 Main circuit power supply (24 VDC)

P C Main circuit power supply (24 VDC)

Terminal to connect regeneration option.

LECSA/S3/S4: Not connected at time of shipping.

Note) For PNP (source), the signal cannot be assigned to the pin 23 or 25.

I/O connector (Option): CN1

Connect to motor cable (U Red), (V White), (W Black)

Part no.:

USB cable

Provided by customer

Part no.:

24 VDC LEC-MR-J3USB

PC

Provided by customer

Part no.:

24 VDC LEC-MSR-P1

V Servo motor power (V)

W Servo motor power (W)

Main Circuit Power Supply Connector (Accessory): CNP2

Control circuit power supply (24 VDC) supplied to the driver

Control circuit power supply (0 V) side of the control circuit power supply (24 VDC) supplied to the driver

Protective earth (PE)

Terminal name Function

L1 Protective earth (PE)

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P C Main circuit power supply (24 VDC)

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USB cable

Provided by customer

Part no.:

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PC

Provided by customer

Part no.:

24 VDC LEC-MSR-P1

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W Servo motor power (W)

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P C Main circuit power supply (24 VDC)

Terminal to connect regeneration option.

LECSA/S3/S4: Not connected at time of shipping.

Note) For PNP (source), the signal cannot be assigned to the pin 23 or 25.

I/O connector (Option): CN1

Connect to motor cable (U Red), (V White), (W Black)

Part no.:

USB cable

Provided by customer

Part no.:

24 VDC LEC-MR-J3USB

PC

Provided by customer

Part no.:

24 VDC LEC-MSR-P1

V Servo motor power (V)

W Servo motor power (W)

Main Circuit Power Supply Connector (Accessory): CNP2

Control circuit power supply (24 VDC) supplied to the driver

Control circuit power supply (0 V) side of the control circuit power supply (24 VDC) supplied to the driver

Protective earth (PE)

Terminal name Function

L1 Protective earth (PE)

L2 Main circuit power supply (24 VDC)

P C Main circuit power supply (24 VDC)

Terminal to connect regeneration option.

LECSA/S3/S4: Not connected at time of shipping.

Note) For PNP (source), the signal cannot be assigned to the pin 23 or 25.

I/O connector (Option): CN1

Connect to motor cable (U Red), (V White), (W Black)

Part no.:

USB cable

Provided by customer

Part no.:

24 VDC LEC-MR-J3USB

PC

Provided by customer

Part no.:

24 VDC LEC-MSR-P1

V Servo motor power (V)

W Servo motor power (W)

Main Circuit Power Supply Connector (Accessory): CNP1

Control circuit power supply (24 VDC) supplied to the driver

Control circuit power supply (0 V) side of the control circuit power supply (24 VDC) supplied to the driver

Protective earth (PE)

Terminal name Function

L1 Protective earth (PE)

L2 Main circuit power supply (24 VDC)

P C Main circuit power supply (24 VDC)

Terminal to connect regeneration option.

LECSA/S3/S4: Not connected at time of shipping.

Note) For PNP (source), the signal cannot be assigned to the pin 23 or 25.

I/O connector (Option): CN1

Connect to motor cable (U Red), (V White), (W Black)

Part no.:

USB cable

Provided by customer

Part no.:

24 VDC LEC-MR-J3USB

PC

Provided by customer

Part no.:

24 VDC LEC-MSR-P1

V Servo motor power (V)

W Servo motor power (W)

Main Circuit Power Supply Connector (Accessory): CNP2

Control circuit power supply (24 VDC) supplied to the driver

Control circuit power supply (0 V) side of the control circuit power supply (24 VDC) supplied to the driver

Protective earth (PE)

Terminal name Function

L1 Protective earth (PE)

L2 Main circuit power supply (24 VDC)

P C Main circuit power supply (24 VDC)

Terminal to connect regeneration option.

LECSA/S3/S4: Not connected at time of shipping.

Note) For PNP (source), the signal cannot be assigned to the pin 23 or 25.

I/O connector (Option): CN1

Connect to motor cable (U Red), (V White), (W Black)

Part no.:

USB cable

Provided by customer

Part no.:

24 VDC LEC-MR-J3USB

PC

Provided by customer

Part no.:

24 VDC LEC-MSR-P1

V Servo motor power (V)

W Servo motor power (W)

Main Circuit Power Supply Connector (Accessory): CNP1

Control circuit power supply (24 VDC) supplied to the driver

Control circuit power supply (0 V) side of the control circuit power supply (24 VDC) supplied to the driver

Protective earth (PE)

Terminal name Function

L1 Protective earth (PE)

L2 Main circuit power supply (24 VDC)

P C Main circuit power supply (24 VDC)

Terminal to connect regeneration option.

LECSA/S3/S4: Not connected at time of shipping.

Note) For PNP (source), the signal cannot be assigned to the pin 23 or 25.

I/O connector (Option): CN1

Connect to motor cable (U Red), (V White), (W Black)

Part no.:

USB cable

Provided by customer

Part no.:

24 VDC LEC-MR-J3USB

PC

Provided by customer

Part no.:

24 VDC LEC-MSR-P1

V Servo motor power (V)

W Servo motor power (W)

Main Circuit Power Supply Connector (Accessory): CNP2

Control circuit power supply (24 VDC) supplied to the driver

Control circuit power supply (0 V) side of the control circuit power supply (24 VDC) supplied to the driver

Protective earth (PE)

Terminal name Function

L1 Protective earth (PE)

L2 Main circuit power supply (24 VDC)

P C Main circuit power supply (24 VDC)

Terminal to connect regeneration option.

LECSA/S3/S4: Not connected at time of shipping.

Note) For PNP (source), the signal cannot be assigned to the pin 23 or 25.

I/O connector (Option): CN1

Connect to motor cable (U Red), (V White), (W Black)

Part no.:

USB cable

Provided by customer

Part no.:

24 VDC LEC-MR-J3USB

PC

Provided by customer

Part no.:

24 VDC LEC-MSR-P1

V Servo motor power (V)

W Servo motor power (W)
**Wiring Method for LECSB**

**Main Circuit Power Supply Connector (Accessory): CNP1**

For 200 VAC
- L1: Main circuit power supply
- L2: Power supply

For 100 VAC
- L1: Main circuit power supply
- L2: Power supply

**Control Circuit Power Supply Connector (Accessory): CNP2**

- P, C, D: Regeneration option

**Motor Connector (Accessory): CNP3**

- U: Servo motor power (U)
- V: Servo motor power (V)
- W: Servo motor power (W)

**Power supply for lock 24 VDC (Provided by customer)**

**Option**
- Regeneration option
  - Connect between P and C.

**Option**
- Lock cable
  - Connect to motor cable (U (Red), V (White), W (Black)).

**Motor connector (Accessory)**

**I/O Signal Wiring Example for Pulse Input Type**

**I/O connector (Option): CN1**

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<td>TCB (Torque limiting)</td>
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</tbody>
</table>

**Note:** - Provided by customer.
Electric Actuators Controller/Driver

Wiring Method for LECSC

Main Circuit Power Supply Connector (Accessory): CNP1
- For 200 VAC: L1, L2, N, L3, P, C, D
- For 100 VAC: L1, L2, N, L3, P, C, D

Control Circuit Power Supply Connector (Accessory): CNP2
- P, C, D
- L1, L11

Motor Connector (Accessory): CNP3
- U, V, W

CC-Link Connector Wiring and I/O Signal Wiring

I/O connector (Option): CN6

Note: Provided by customer.
**Electric Actuators Controller/Driver**

**Wiring Method for LECSS**

### Main Circuit Power Supply Connector (Accessory): CNP1

- **For 200 VAC**
  - L1: Main circuit power supply
  - L2: Power supply for lock 24 VDC
  - N:
- **For 100 VAC**
  - L1: Main circuit power supply
  - L2: Power supply for lock 24 VDC
  - N:

**Control Circuit Power Supply Connector (Accessory): CNP2**

- **P, C, D**
  - Regeneration option
- **L1, L2**
  - Control circuit power supply

**Motor Connector (Accessory): CNP3**

- **V**
  - Servo motor power (V)
- **W**
  - Servo motor power (W)

### I/O Signal Wiring

#### I/O connector (Option): CN3

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**Setup software**

- MR Configurator
- MR Configurator2

**Power supply for I/O signal 24 VDC (Provided by customer)**

**Note** — Provided by customer.

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**Power supply should be performed by the customer.**

- 200 to 230 VAC
- 100 to 120 VAC
- Three phase 200 to 230 VAC

**Provided by customer**

- Power supply for lock 24 VDC

**Power supply connector** (Accessory)

- CNP3
- CNP2
- CNP1

**Main circuit power supply cable** and **control circuit power supply cable** should be provided and wired by the customer. (Applicable cable size: AWG26 to 14)

**Terminal name**

- P, C, D
- L1, L2

**Details**

**Regeneration option**

- Connect to regeneration terminal when the built-in regenerative resistor of the driver is connected, remove the wiring between P and D, and connect the regeneration option to P and C.

**Control circuit power supply**

- Connect to the control circuit power supply.

**Motor connector** (Accessory)

- Connect to motor cable (U (Red), V (White), W (Black)).
Main Circuit Power Supply Connector (Accessory): CNP1

- L1, L2, L3: Main circuit power supply
- N+: Connect the main circuit power supply.
- N–: Do not connect.
- P1, P2, P3, P4: Connect between P3 and P4. (Connected at time of shipping.)
- L11, L21: Connect to motor cable (U (Red), V (White), W (Black)).
- L3: Servo motor power (U)
- L2: Servo motor power (V)
- L1: Servo motor power (W)

Control Circuit Power Supply Connector (Accessory): CNP2

- P, C, D, N+: Regeneration option
- L11, L21: Control circuit power supply
- P, C, D: Terminal to connect regeneration option. When the built-in regenerative resistor of the driver is used, connect between P and D. (Connected at time of shipping.) When regeneration option is connected, remove the wiring between P and D, and connect the regeneration option to P and C.

Motor Connector (Accessory): CNP3

- U, V, W: Servo motor power (U, V, W)
- L11, L21: Connect to motor power (U, V, W)

I/O Signal Wiring

<table>
<thead>
<tr>
<th>Pin no.</th>
<th>Signal name</th>
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<tbody>
<tr>
<td>1</td>
<td>LG</td>
</tr>
<tr>
<td>2</td>
<td>DI1</td>
</tr>
<tr>
<td>3</td>
<td>MO1</td>
</tr>
<tr>
<td>4</td>
<td>MBR</td>
</tr>
<tr>
<td>5</td>
<td>DOCOM</td>
</tr>
<tr>
<td>6</td>
<td>LA</td>
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<tr>
<td>7</td>
<td>LB</td>
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<td>8</td>
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<tr>
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</tr>
<tr>
<td>10</td>
<td>DICOM Digital I/F power supply input</td>
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<tr>
<td>11</td>
<td>LAR</td>
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<tr>
<td>12</td>
<td>LBR</td>
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<td>13</td>
<td>MO2</td>
</tr>
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<td>14</td>
<td>MTO</td>
</tr>
<tr>
<td>15</td>
<td>ALM / Failure</td>
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<tr>
<td>16</td>
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<tr>
<td>17</td>
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<tr>
<td>19</td>
<td>DI2</td>
</tr>
<tr>
<td>20</td>
<td>EM2 / Forced stop 2</td>
</tr>
</tbody>
</table>

Note: 
- Option
- Regeneration option
- Protective circuit
- Motor power supply (Option)
- Protective earth PE
- Plug type
- Connect to CNP3
- Connect the ground.

Power supply should be provided and wired by the customer. (Applicable cable size: AWG18 to 14)

For Single phase 200 VAC
- Main circuit power supply connector: L11, L21
- Control circuit power supply connector: L11, L21

For Three phase 200 VAC
- Main circuit power supply connector: L1, L2, L3
- Control circuit power supply connector: L1, L2, L3