LD–014/ LD–015
Control units

Read this manual before installing, operating or maintaining this actuator. Failure to follow safety precautions and instructions could cause actuator failure and result in serious injury, death or property damage.
Technical Instructions

Comfodesk LD–015 / LD–014
Control Units

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Applied Standards

EN 60335
EN 61000–6–2
EN 50081–1
UL 73
1 General Information

1.1 Use of the Technical Instructions

The technical instructions are intended for designers or professionals which use the linear drive in their products as well as the mechanical engineers which work with them. The technical instructions contain all relevant instructions on this Magnetic product.

Subject to changes in the interest of technical innovation.

Please read the technical instructions carefully and note the safety instructions.

The technical instructions should continue to be used to create the user manual for the end product.

1.2 Explanation of Symbols

Possible dangers and important instructions are identified with the symbols to the side in the short manual.

1.3 Proper Usage

The control units LD-014 and LD-015 are used to control the following drives:
- Ecomag ECO
- Maggear MAG
- Telesmart TXG / TMA / TMD

The LD-014 and LD-015 control units may only be used in enclosed areas.

1.4 Ambient Conditions

Operation:
- Temperature 5 C to 40°C
- Air humidity max. 85%

Storage/transport:
- Temperature -20°C to 40°C
- Air humidity max. 95%

Operating mode
- Intermittent 10%; 1 min ON/ 9 min OFF

2 Function

The LD controls are synchronized control units for the operation of 2 (LD-015) or 4 (LD-014) drives. The drives can be controlled synchronously to set the height of a table, tool carrier etc.

2.1 Design

The control unit consists of the following components:
- Control unit
- The following control elements are available
  - Table switch LD-011


3 Assembly and Commissioning

3.1 Control Unit Assembly

Control units LD-014 and LD-015 are attached with 4 screws.

3.2 Assembly Table Switch

The table switch is attached to the table panel according to the diagram with 3 screws.
3.3 Electrical Connections

1. Use the enclosed connecting cable to connect between the drive and the control unit (see diagram). An 8-pole DIN plug is provided for each drive.
2. The table switch is plugged into the socket in the control unit via the control unit. A 7-pole DIN plug is provided for this purpose.
3. Check if the active voltage corresponds to the voltage indicated on the type plate.
4. Insert the power plug.

The system is in operation as soon as the power supply is connected.

3.4 Commissioning

First be sure that the assembly and the electrical connections were done properly.
Before you begin to operate the system, please perform an initialization run for the end position comparison:

3.4.1 Initialization Run LD-015.005 (for TXG)

- Press .

Hold the button down until all drives have reached their end position at reduced speed. The drive will then stop automatically.
- Press .

The drives move with reduced speed. Keep this button pressed down until all drives have reached the upper end position.

In the Comfort model, the current height is displayed
- Release the button.

The drives are now ready for operation and can be used normally.
3.4.2 Initialization run LD-015.006 / LD-015.008
(for Ecomag and Maggear)

- Press .
  Keep this button pressed down until all drives have reached the lower end position. The table then stops independently.
- Hold down .
  After approx. 5 seconds, the drives move in slowly until they have reached the absolute end position. The drives will then stop automatically.
- Release the button.
  The drives are now ready for operation and can be used normally.

4 Operation

4.1 Control with the Table Switch Standard Version

```
Table switch standard version
```

- Press , to drive out the drives.
- Press , to drive in the drives.
  Hold down the buttons until the desired height has been reached.

4.1 Control with Table Switch Memory or Comfort Version

```
Table Switch memory version
```
```
Table switch comfort version
```

- Press , to drive out the drives.
- Press , to drive in the drives.
  Hold down the buttons until the desired height has been reached.

4.1.1 Save Memory Positions

```
The current height is shown in the display of the Comfort version.
```

In the Comfort model, the display shows the lower basic position.
This function allows you to save a certain table height. Up to 4 different heights can be saved. These saved positions can be reset at a later time.

- Press $S$.

Only a “S” appears in the display (only Comfort version)

- Press one of the position buttons $1, 2, 3$ or $4$.

After pressing the positioning button, the number of the position button appears beside the “S”. [Only Comfort version]

After saving, a double click and then the current height appears after 2 seconds on the display.

4.1.2 Move to Memory Positions

Variant A

- Press and hold down one of the position buttons $1, 2, 3$ or $4$.

The drives move to the position as long as the button is held down. If the button is released, the drives stop.

If the button is held down, the drives move until they have reached the saved position.

Variant B

- Double click on one of position buttons $1, 2, 3$ or $4$.

The drives move automatically to the saved position.

4.1.3 Setting Display (Only Comfort Version)

The displayed height can be changed with this function.

- Press $S$. A “S” appears in the display.

- Now press the button for approx. 5 seconds $\uparrow$ until the display begins to blink.

- Now you can set the height with $\downarrow$ or $\uparrow$. The drives do not travel.

- If the desired position is set in the display, the new height can be saved with $S$.

The position is saved and the display stops blinking.

4.2 Removing an Oblique System Position

A possible oblique position in the system can be offset by synchronizing the drives:

- Move the drives to the lower end position.

- Now press down the button $\downarrow$ for approx. 5 seconds.

- Keep it pressed down. The drives now move to the absolute end position.

The system is now synchronized. The drives are ready for operation and can be used again normally.
5 Maintenance and Care

5.1 Maintenance
The control unit is completely maintenance free during its entire life.

The control unit must be checked at the manufacturing plant in the event of malfunctions. It may not be opened and repaired because the housing can be damaged.

The control unit has to be checked regularly for cracks on the housing. If cracks occur on the housing through outside intervention, the drive must be sent to Magnetic Service to be checked.

5.2 Care
Clean the control unit with a moist cloth.

Only the iso-proplyalcohol cleaning agent should be used for hand disinfection.

5.3 Guaranty
Under the condition that the operating conditions were observed and the machines did not show any mechanical or electrical damages through improper handling, a 12-month guaranty after delivery applies to all mechanical and electric components.

5.4 Disposal
Control components and drives can be returned to Magnetic AG, Liestal for disposal.

5.5 Liability
Liability for the function of the machine is transferred to the owner or operator in each case if the machine is not properly installed, maintained or serviced by persons who are not employees of Magnetic Service or if handling represents incorrect usage.

Magnetic stock company is not liable for damages which ensure by not following the preceding instructions. Guaranty and liability conditions of the general conditions of sale and delivery of the Magnetic stock company are not extended by the preceding instructions.

6 Technical Specifications
Technical specifications see data sheets 530d2992 und 530d2993.

The manufacturer reserves the right to adapt technical specifications to development innovations without special announcements. Magnetic AG, Liestal will be happy to provide information on updates and any changes or supplements.