

LFSID D-series label feeder user manual

Applies to LFSID-32 · LFSID-60 · LFSID-100

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Label Feeder—Siemens D Series User Instructions USER INSTRUCTIONS ★ Main concepts of the label feeder ★ Appearance and structure of the label feeder ★ Threading method of the label feeder ★ Operating instructions of the label feeder ★ After-sales warranty of the label feeder

Dear user: Thank you for purchasing the label feeder developed and produced by our company! To help you quickly master the use of this product, we have specially compiled this manual for you. From it, you can obtain important precautions, detailed appearance descriptions, operating instructions, and knowledge on how to maintain and care for our company's label feeder products. We recommend that you read it carefully before using this product, as it will help you use this product better. We will make our utmost efforts to ensure that the information provided in this manual is correct and reliable. If there are any omissions, you are welcome to point them out, and we will be grateful. Because this product is also a non-standard customized product, hardware improvements and upgrades may be made according to customer requirements, resulting in differences between the contents of this manual and the actual product. Please refer to the actual product. However, this will not substantially affect your use of this product. Please understand! Thank you for your cooperation! To use this product correctly, please keep this manual properly for future reference. This product requires professional maintenance. If there are any problems, please contact our company promptly!

Important Precautions

1. Avoid directly exposing the feeder to sunlight and other heat sources;
2. The operating voltage of this machine is 24V, and the current must be greater than 2A. Avoid connecting it to the same power plug as high-power electrical equipment.
3. Please use a dry/soft cloth (containing no volatile substances) to wipe the feeder;
4. The peeling blade and the material receiving platform must not be subjected to impact or contamination;;



5. Avoid product or component damage (such as housing, LED screen, interfaces, component circuits, etc.) such as cracking, corrosion, or damage caused by insect bites, rodent bites, or intrusion of goods.
6. Please do not use unauthorized institutions or personnel to install, repair, add, or disassemble;
7. Collision is prohibited. Please note that collisions between feeders or with other objects may cause slight to extreme damage, leading to decreased function and performance;

Transportation and Receipt Confirmation

To ensure that you receive the goods intact, when receiving the goods, please open the box and inspect them face-to-face with the carrier, and sign for receipt after confirming that the product has no transportation damage or shortage. If there is transportation damage or shortage, please do not sign for receipt, keep the goods, packaging materials, and accessories intact, and contact our company immediately. If the buyer has no objection to the received product on the day of receipt, it will be deemed as passing acceptance, and our company will not be liable for cargo damage. (Except as otherwise agreed in the contract)

Feeder Overview

3.1 Feeder Application Scope

3.1.1 Whether paper labels or FPC reinforcing steel sheets, various Mylar tapes, foam, dust-proof meshes, high-temperature tapes, and other roll materials can all use the label feeder. 3.1.2 Strong material size compatibility. One label feeder can handle all material sizes within the maximum size, and also supports single-row or multi-row, maximizing the machine's usage efficiency. 3.1.3 Roll feeders are mainly used in packaging, 3C, FPC, and electronics industries; 3.1.4 There is no need to purchase a separate labeling machine. Combined with a label feeder placement machine, attachment work can be realized.

Material loading shaft Winding shaft Touch screen Anti-stick material platform Guide block Peeling blade Waste recovery reel Cover pull rod Material pressing sheet (One model is used as an example for introduction. Different models have different structures in some parts. Please refer to the actual product.)

3.2 Feeder Appearance Structure

Waste recovery reel

Feeder Material Threading Method

4.1 Feeder Threading Instructions

4.1.1 The material roll starts at the label mounting shaft sleeve and passes through the winding shaft. A retaining ring is needed to limit the material roll and prevent left-right swinging; 4.1.2 Pass through the label guide width-limiting slider (the inner hexagon wrench can be used to loosen the set screws inside, and move the guide block to the appropriate position according to the width of the material roll), and pass through the pressing sheet (the four set screws of the pressing sheet can be loosened or tightened to adjust the height according to label thickness); 4.1.3 Press the material pressing cover pull rod downward to open the material pressing cover. The material roll is clamped between the material pressing cover and the driving shaft. Press down the material pressing cover to clamp the label; 4.1.4 Finally, the empty material roll is recovered through the waste tape recovery shaft sleeve.

4.2 Feeder Threading Diagram

The following diagram includes upper film collection. If there is no upper collection material, it can be ignored. Please refer to the actual sample.

Color identification White upper film winding path Green backing film winding path

4.3 Threading Precautions:

4.3.1 The angle and direction of the material tape must remain straight; 4.3.2 For large labels or labels that are easy to peel off, the spring winding shaft may be skipped to prevent premature label peeling due to a large angle; 4.3.3 For small labels that are difficult to peel, the direction of the peeling blade can be changed to the side with a smaller angle.

Feeder Fiber Optic Sensor Operating Instructions

5.1 Fiber Optic Sensor Appearance

① When the label is on the fiber optic point, the fiber optic amplifier will generate a corresponding sensing value. ② When the fiber optic working set value > fiber optic sensing value and the light is on, material is detected; when the fiber optic working set value < fiber optic sensing value, it is in a no-material state. In the figure, 200 is the fiber optic working set value. The working set value only needs to be 200 greater than in the no-material state.

Fiber optic sensor Working set value Fiber optic sensing value

5.2 Button Instructions

Increase the fiber optic working set value. Decrease the fiber optic working set value.

5.3 Usage Instructions

Feeder Display Screen Operating Instructions

6.1 Display Screen Usage Instructions

6.1.1 Working mode Auto: production mode; Manual: stop production, used for loading and changing materials;

6.1.2 Feeding position: adjust the feeding distance, and adjust the appropriate feeding distance according to label size. (If the label tilts upward or is fed too much, the feeding position is too large. If the label is not fed into position, the feeding position can be increased);

6.1.3 Feeding speed: when label peeling is completed, if the speed is increased or decreased, the feeding position needs to be correspondingly changed and finely adjusted. If placement speed is not pursued, setting 30-50 is sufficient to maintain stable feeding;

6.1.4 Feeding delay: that is, after feeding one material, wait a period of time before feeding the next material. The unit is 0.1s (if the manipulator picks material slowly and the label feeding speed is fast, a delay can be set);

6.1.5 Production quantity: the count for each row of labels fed. Long press to clear and restart counting.

In manual mode, feed the label once.

In manual mode, the material roll moves back a small step; in automatic mode, pressing this key automatically decreases the feeding position value.

In manual mode, the material roll moves forward a small step; in automatic mode, pressing this key automatically increases the feeding position value.

Parameter setting. Chinese and English formats can be set, and communication signals with the placement machine can be set (signal wire connection required).

Label Feeder Wiring Instructions

7.1 When the placement machine needs the feeder to provide a label-present signal, the yellow wire needs to be connected. Interface setting: Label-present signal selection → Enable; when there is a label on the feeder, it will give the placement machine a 0V signal. 7.2 If the placement machine wants to control the feeder's label dispensing state, interface setting: Feed signal selection → Enable; the placement machine needs to provide a 0V signal to the feeder through the green wire

before the feeder will perform the label feeding operation. 7.3 Interface setting: Feed signal selection → Disable. By default, the feeder automatically performs the label feeding operation when there is no label on the material platform.

After-Sales Warranty Terms

The warranty period is calculated from the date of purchase of the product, and the warranty period is one year. During the warranty period, if the product does not work properly due to its own quality, our company will provide free repair service. Free repair is not provided under the following circumstances:

1. The product or component exceeds the corresponding warranty period;
2. Faults or damage caused by incorrect or improper use, maintenance, or storage, such as: improper handling; use not in accordance with the reasonable expected purpose of the product; improper plugging and unplugging of external devices; dropping or improper external impact or extrusion;
3. Contact with or exposure to inappropriate temperature, solvents, acids and alkalis, water immersion, or humid environments; or intrusion of foreign objects causing cracking, corrosion, damage, etc. of the product or components;
4. Faults or damage caused by installation, repair, modification, addition, or disassembly by institutions or personnel not authorized by our company;
5. Faults or damage caused by force majeure or accidents. After the warranty period expires and for equipment not covered by the free warranty terms, users can still obtain repair services from our company, but parts and repair fees will be charged as appropriate. Before shipment, we will debug the parameters according to the samples provided by your company. Usually, after receiving the product, it can be used after connecting the power supply. If you do not understand the operation, our company's technicians can provide online remote operation guidance. If parts need to be replaced, the product must be returned by logistics.

Our Mission Committed to solving in the field of electronics automation: The technical problem of "pursuing innovation" during product research and development; The technical problem of "stable operation" in industrial production; The management problem of "continuous quality" in the manufacturing process; The service problem of "efficient and responsible" during product use; The market problem of continuously reducing customers' "comprehensive cost" of products.