



## Door lock LI-25-30 / LI-25-R

**Reference:** Installation instruction LI- 25-30/ LI-25-R

LI-25-30 and LI-25-R are maintenance-free freight lift locks for double swing doors.

The LI-25-30 comes with 2pc mounted KO-30 door contacts and LI-25-R mounted with KO-26 door contacts.

### Contents of packaging

1. Door lock
2. Pull rod
3. Linkage arm (LI-25-30 & R)
4. Lock roller with shaft
5. Suitable contact bridge

### Recommended tools

Screwdriver – Torx 20

### Required material

4 screws M8x12mm with suitable washers.

### 1. Mounting of locks in door frame

The lock is mounted in the frame in the mounting holes ①. The holes are drilled and threaded as shown below. We recommend you to use one of our adapter plates when replacing a lock with different hole pattern.

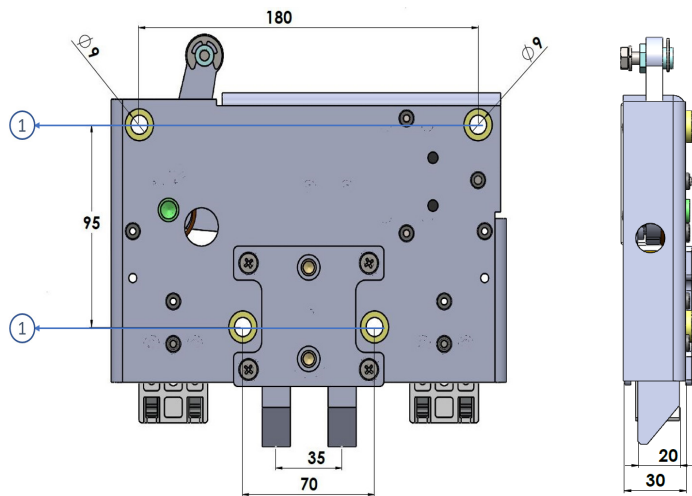


Figure 1 Distance between mounting holes

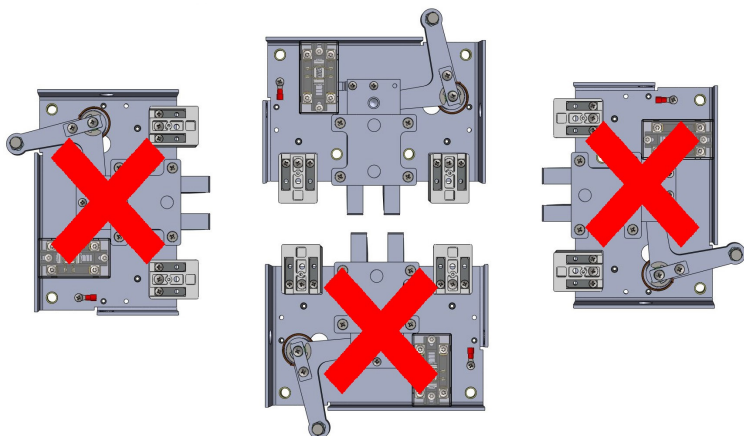
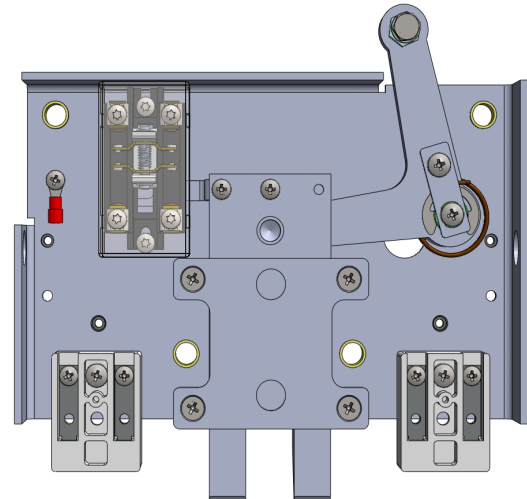
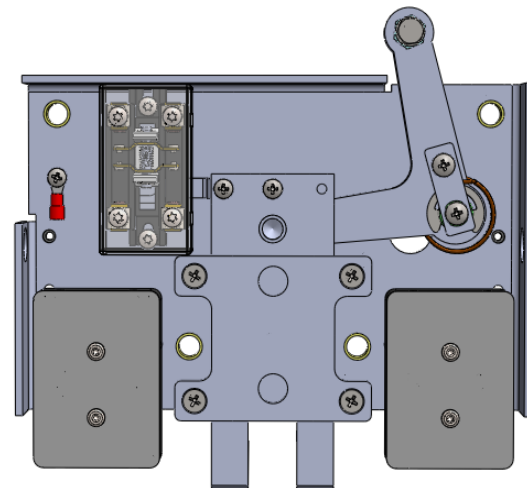


Figure 2 Approved positions



LI-25-30



LI-25-R

Pictures showing right variant locks

### 2. Adjustment of lock engagement and clearance

The door lock should be adjusted so that the latching bolt engagement is 15 mm. According to standard EN81-20, the minimum permissible locking is 7 mm + movement with closed contact (approx. 2 mm). The locking engagement is adjusted by moving the lock in the holes 1 (see Figure 1).

The lock is adjusted so that there is clearance at the latching bolt and the door leaf in locked position. We recommend a clearance of 1-2 mm. If necessary, washer/distance bush can be placed between the lock and the frame if the clearance is too large.

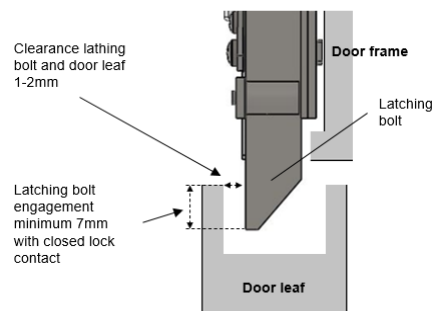


Figure 3 Locking engagement and clearance viewed from the bottom of the lock

### 3. Emergency opening function

#### i. Valid only to locks with triangle opening

Holes are drilled in the door frame for the emergency opening function as shown in the figure below. The hole should be at least 14mm in diameter and the triangle should be recessed at least 3mm from the front to meet the EN81-20 standard.

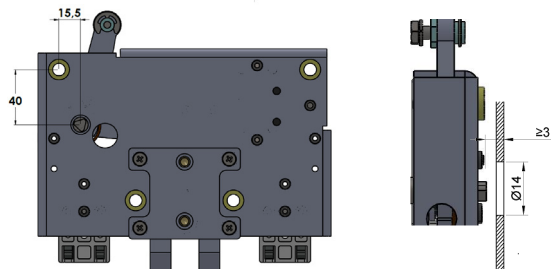


Figure 4 (i) Emergency unlocking

#### ii. Emergency opening function (Supplemental)

Hole of 60mm diameter is drilled in the door frame to install supplemental emergency opening function. Bevel gear, lock and triangular opening are connected with bowden cables as shown in Fig.4 (ii)

Supplemental emergency triangular opening

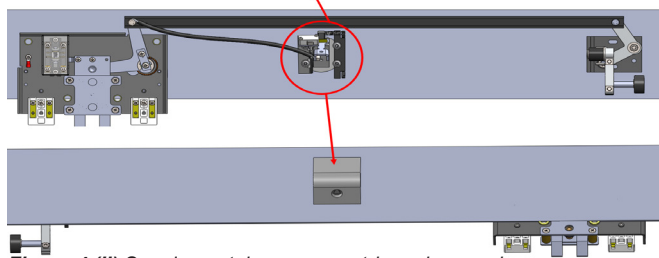


Figure 4 (ii) Supplemental emergency triangular opening

### 4. Connections of the contacts

LI-25-30 and LI25-R have door contacts, one for each door and a lock contact. Below is the wiring diagram. LI-25-30 has KO-30 & LI-25-R has KO-26 door contact.

Cables are attached between contact blades on locking contact and door contacts. Ground ⑨ is connected with cable lug. Rear contact ①, ② is switched on if necessary.

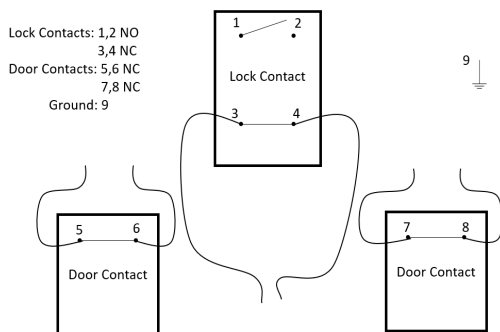


Figure 5 connections for door and lock contacts

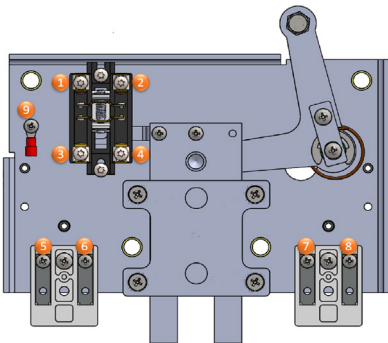


Figure 6 Picture showing connection numbers (LI-25-30)

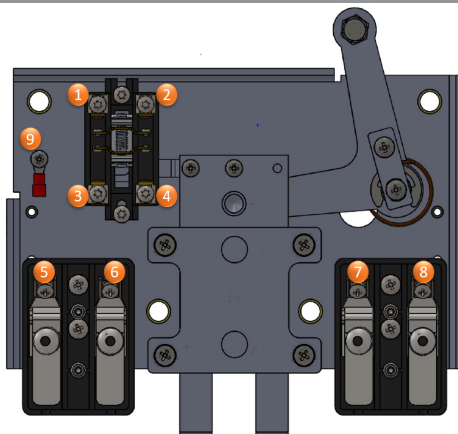


Figure 7 Picture showing connection numbers (LI-25-R)

### 5. Magnet Switch (Valid only to locks with magnet contact)

LI-25-30-M-H, freight lock with magnet switch for hidden Contact 230VAC 0.4A to prevent tampering/manupulation.

Magnet contact is just for monitoring and neither to put into door or security circuit. Mandatory contact bridge with magnet included in kit or ordered seperately Art.no:2400126-M.

### 6. Mounting and adjustment of the roller

The pull rod ② (1250mm- can be ordered in different lengths) is mounted with lock arm ①. Linkage arm ③ is mounted to other end of pullrod. Locking roller shaft ④ is mounted on linkage arm and tightened. The roller should be centered over the retiring ramp ⑤. The linkage arm is finally adjusted so that the roller is about 2 mm from the retiring ramp when the ramp is retracted.

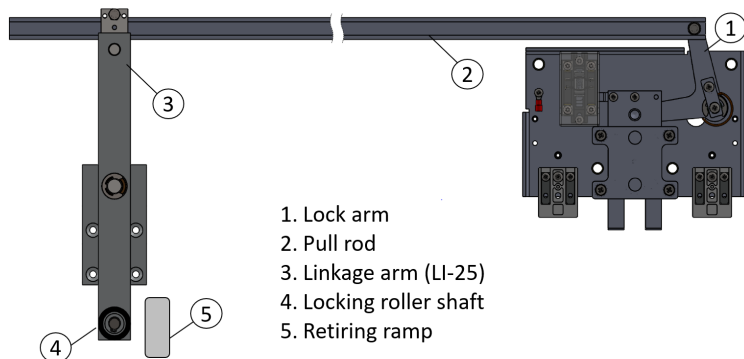


Figure 8 Mounting of the roller

## TECHNICAL SPECIFICATIONS

Lock/Auxiliary contact:

Voltage: 230VAC / 200VDC

Current: 2A AC/DC

## REQUIREMENTS

The lock should not be lubricated. The European Standard EN 81-20 requires a minimum latching bolt engagement of 7mm before the lock contact closes.

### RECOMMENDATIONS

we recommend to adjust the latching bolt engagement to 15mm.

### REGULATIONS

LI-25-30 & LI-25-R locks meets the requirements of EN81-20 with additional hidden door contact. Installation is carried out according to European standards EN 81-20

### CERTIFICATE

EU Certified, 20-GOT-LD-002, Kiwa Inspecta AB. Notified body No: 0409