



Doorlock LO-30/ LO-30S

Reference: Installation instructions LO-30

The LO-30 is a maintenance-free door lock for swing doors. It is supplied with (LO-30S) or without (LO-30) mechanical device for proving the locked and closed condition of the door according to EN81-20 5.3.10. Activation by locking arm. Lock can be ordered with 10mm longer bolt. See Figure 1 for dimensions.

Content of packaging

1. Doorlock
2. Door leaf Magnet (LO-30S)
3. Locking roller with shaft

Recommended tools

Screwdriver - Torx 20 and Allen key 6mm

Required material

4 screws M6x12mm and Epoxy glue or Pop rivet for the door leaf magnet. Shims are ordered separately. Article no. 2109020. Thickness 1mm.

1. Mounting of lock in the doorframe

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

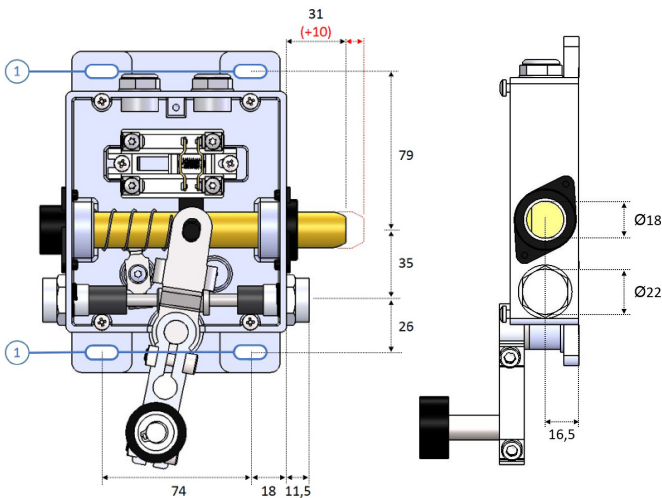


Figure 1 Distance between mounting holes

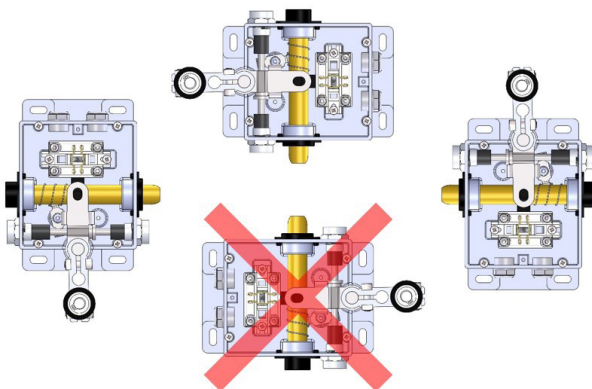
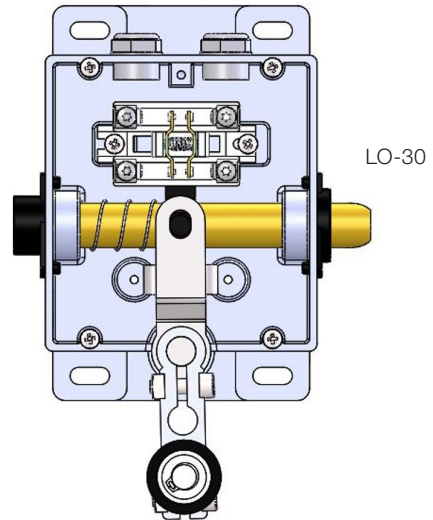
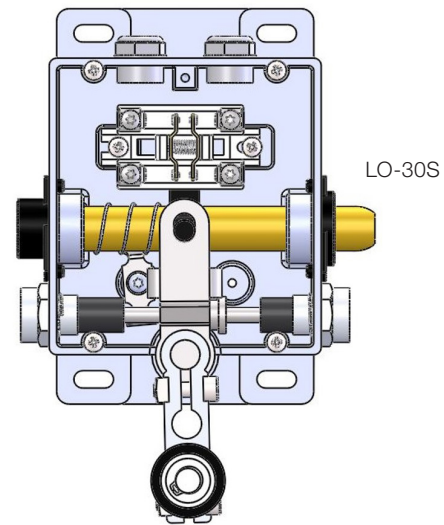


Figure 2 Approved positions



LO-30



LO-30S

The pictures shows left hand locks

2. Adjustment of lock engagement and clearance

The door lock shall be adjusted so that the latching bolt engagement is minimum 7mm + the closed-contact movement (about 2mm) in conformity to EN81-20. The front surface of the magnet cap should align with the outside of the door frame (applies to the LO-30S). The locking engagement is adjusted by moving the lock in the oblong holes ① (see figure 1).

The lock is adjusted so there is a clearance between the latch bolt and the door leaf in locked position. We recommend a clearance between 1-2mm. If necessary, shims can be placed between the lock and the frame if the clearance is too large.

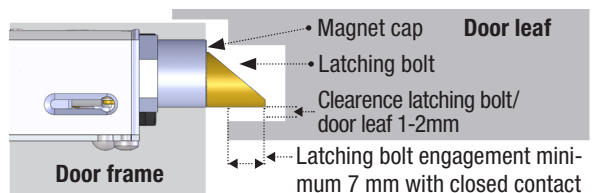


Figure 3 Locking engagement and clearance viewed from the bottom of the lock.

3. Emergency unlocking

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

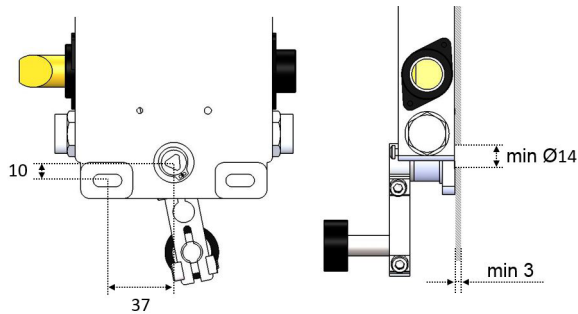


Figure 4 Emergency unlocking

4. Connection of the contacts

Cables are connected to the terminal screw on lock contact **NC** ①, ② and to ground ⑤. The auxiliary contact ③, ④ is connected if required.

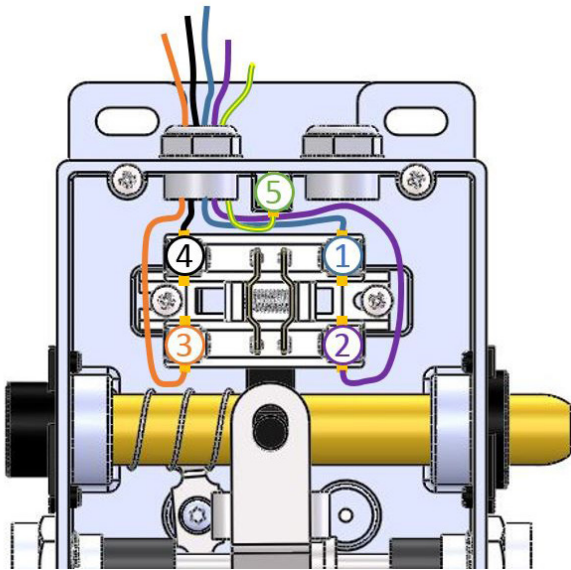


Figure 5

5. Mounting of door magnet

The door magnet is mounted in a 22mm hole in the door leaf. After adjusting the distance, the door magnet is locked with the counter nut. The door magnet should be centered in front of the magnetic cover and adjusted so that the distance between the door magnet and the magnet cover is at maximum 3mm. The door magnet is attached with epoxy glue or 2 pop-nuts. If the door frame is of thick material, problems may arise because the lock magnet is disturbed by the magnetic field of the door frame. Door magnet (article number: 2400242) with a diameter of 30mm should be used.

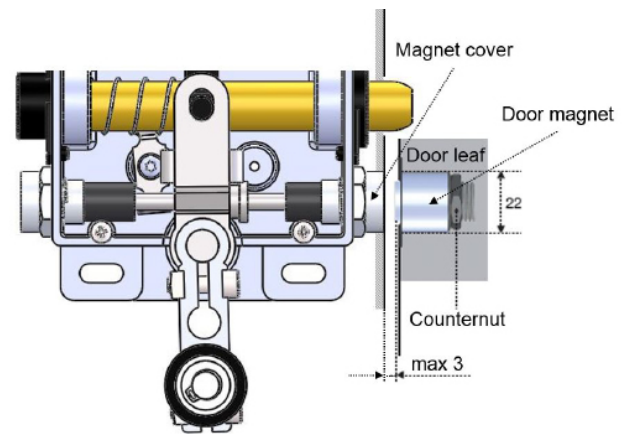


Figure 6 Mounting of door magnet

6. Mounting/adjustment of the roller

The locking roller shaft 6 is mounted in the locking arm 5 and is tightened by screw 1. The locking arm 5 is turned upwards by loosening screw 2 if needed. The roller 4 should be centered over the retiring ramp 3. The locking arm is finally adjusted with screw 2 so that the roller is about 5 mm from the retiring ramp when the ramp 3 is retracted. The shaft 6 is cut if needed.

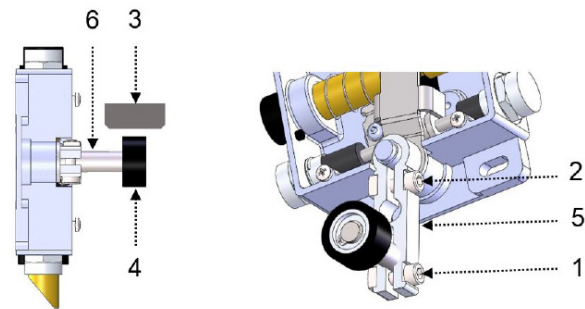


Figure 7 Mounting of the roller

TECHNICAL SPECIFICATIONS

Lock/Auxiliary contact

Voltage: 230VAC / 200VDC

Current: 2A AC / 2A DC

REQUIREMENTS

The lock shall 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

LO-30S lock meets the requirements of EN 81-20 "Common rules for checking the door's locked and closed position." For the LO-30 type, additional components are required to meet the requirements of EN81-20.

Installation is carried out according to European standards **EN 81-20**.

CERTIFICATE

EU certified, 17-NOR-LD-002, Kiwa Inspecta AB. Notified Body No: 0409