MotorDrive

EM25•20 Technical Manual

CHARACTERISTICS

The MotorDrive features a 6-digit main code that can be changed by the user. With the main code a secondary code can be activated and deleted. The lock secures with a blocking gear that is moved by a motor. If a valid code has been entered, the lock electronic removes the blocking for 3 seconds and the bolt is drawn into the housing. When moving the boltwork into LOCKED position, the MotorDrive automatically secures.

The MotorDrive lock can be mounted in all four mounting directions. The mounting dimensions are standard. The lock is delivered with metric (M6) mounting screws as well as US 1/4 – 20 screws.

ENTRY UNITS

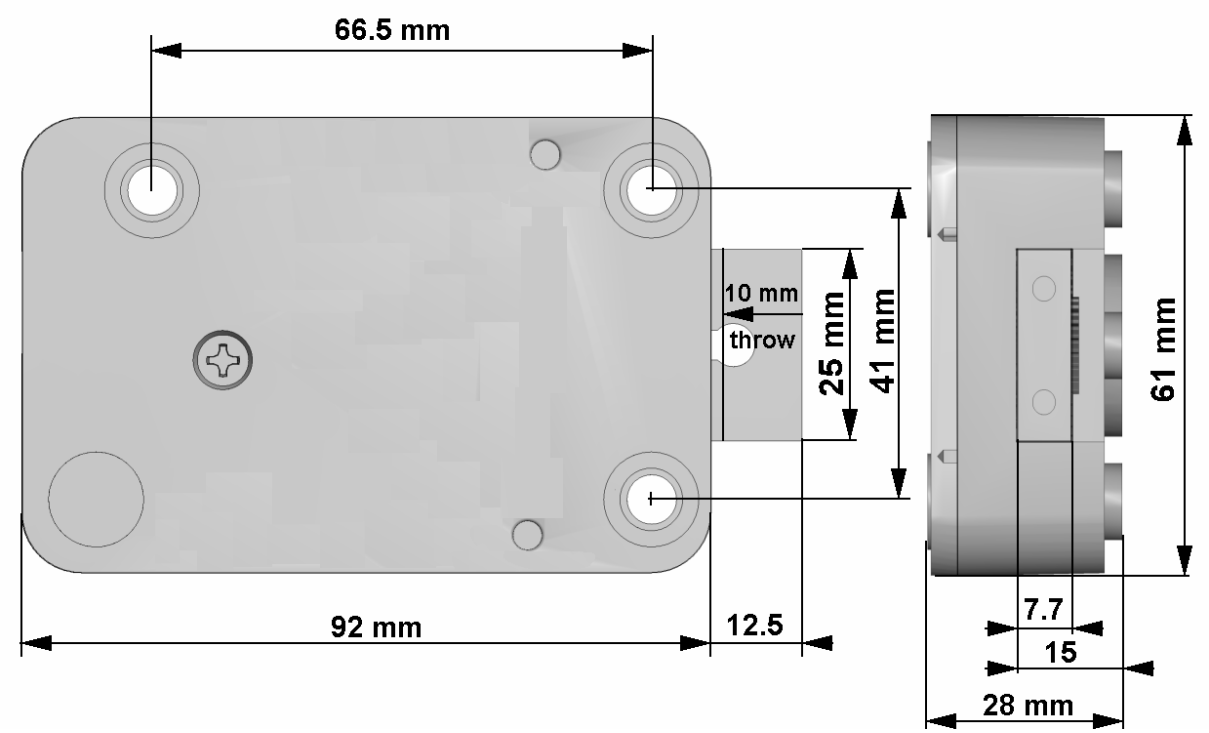
The MotorDrive is compatible with the following NL LOCK Entry units

Alpha Series:	
AL20	**AL30**
	
EuroClass Series: EK50	
	
EuroLine Series: EC10	
	

EuroLine Modular: ST40			
		battery box ST50.65 required

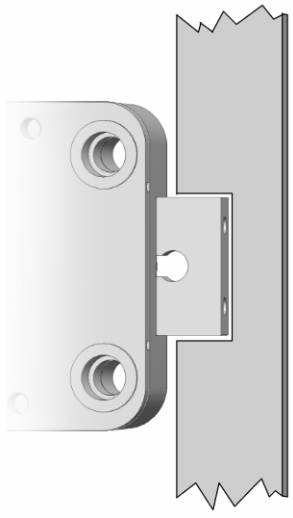
(Separate technical descriptions for Entry units available)

DIMENSIONS



BOLTWORK REQUIREMENTS and MOUNTING INSTRUCTION

The force applied to the lock bolt must not exceed 1 KN (i.e. breaking point in the boltwork). If higher force is applied please consult with applicable testing institutes.



In the LOCKED position, the distance between the lock bolt and the cavity in the blocking bar of the boltwork should be approximately 1 mm. The lock bolt must move freely into the cavity.

Only use NL LOCK supplied screws to mount the lock. Tighten the screws securely so the lock body is attached firmly to the mounting surface.

Bolt attachments should be approved by NL LOCK prior to use.

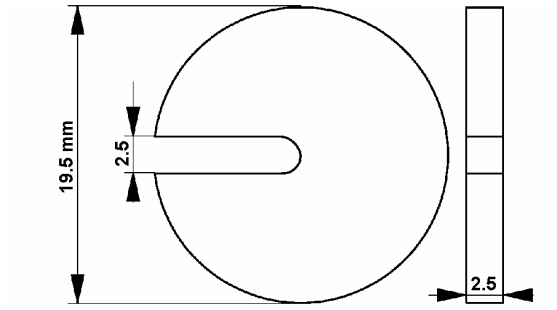
Mount the entry unit following the manufacturer's instruction.

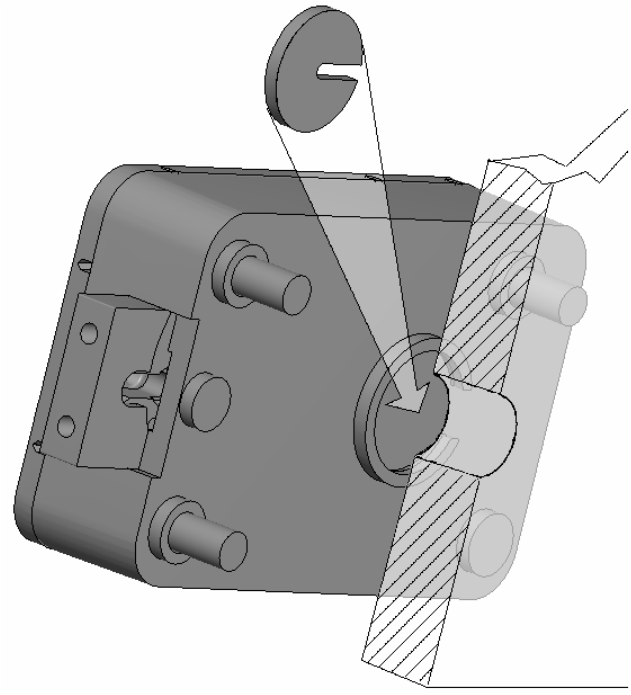
Insert the connector of the entry unit in the inner position. Check that the connector is completely seated. To remove the connector, carefully lift it and pull it out.

In the entry unit or battery box connect a 9V-ALKALINE-battery from a brand name manufacturer, i.e. DURACELL.

Tie cables away from moving parts.

Note:
If a cable/spindle hole is located under the MotorDrive, use a suitable drill protection like the one shown below.





FUNCTIONAL TEST (with door open)

- Enter code (1,2,3,4,5,6). The lock emits a double signal for the correct code and a second double signal when the lock bolt is fully retracted.
- Turn boltwork handle towards OPEN position.
- After approximately 3 seconds, the motor can be heard again when it pushes the lock bolt against the blocking bar of the boltwork.
- Turn handle towards Locked position.
- The lock bolt must fully extend and secure. When the lock secures, a double signal is emitted.
- Make sure there is an air space on all sides of the lock bolt when the safe's boltwork is fully thrown into locked position.

Repeat functional test several times before locking the safe door.

DATA SHEET

Mechanics	
Opening	automatic
Locking	automatic
Blocking element	Blocking Gear/Motor
Mounting dimensions	standard
Electronics	
Power supply	9V ALKALINE battery
Software	
Codes	2 (6 digits)
Primary code	1
Secondary code	1
Battery low signal	yes
Manipulation protection	5 minute lockout after 4 consecutive wrong codes
Certifications	
VdS	Class 2
EN 1300	Class B