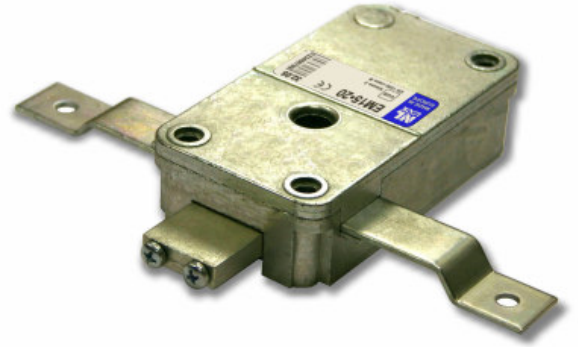


# DirectDrive



## EM15-20 Technical Manual Mounting instructions

### CHARACTERISTICS

The integrated three way locking mechanism of the DirectDrive lock eliminates the need for a separate bolt work. It can be mounted in all four mounting directions. The lock is delivered with metric (M6) mounting screws. US screws (1/4-20) are available on demand.

The DirectDrive 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 solenoid that blocks the bolt movement. If a valid code has been entered, the lock's electronics removes the blocking for 3 seconds and all three bolts can be moved into OPEN position by rotating the cam. The cam is operated with an 8 mm square shaft.

### ENTRY UNITS

The DirectDrive is compatible with the following KG LOCK Entry units:

<b>EK50-40</b> 	<b>EK50-70</b> 	<b>AL20-20</b> 	
<b>EC40-40</b> 	<b>EC40-70</b> 		
<b>ST40-10/ ST40-15</b> 		<b>ST50-65</b> 	<b>ST30-40</b> 

Technical descriptions and mounting instructions for each entry unit are available.

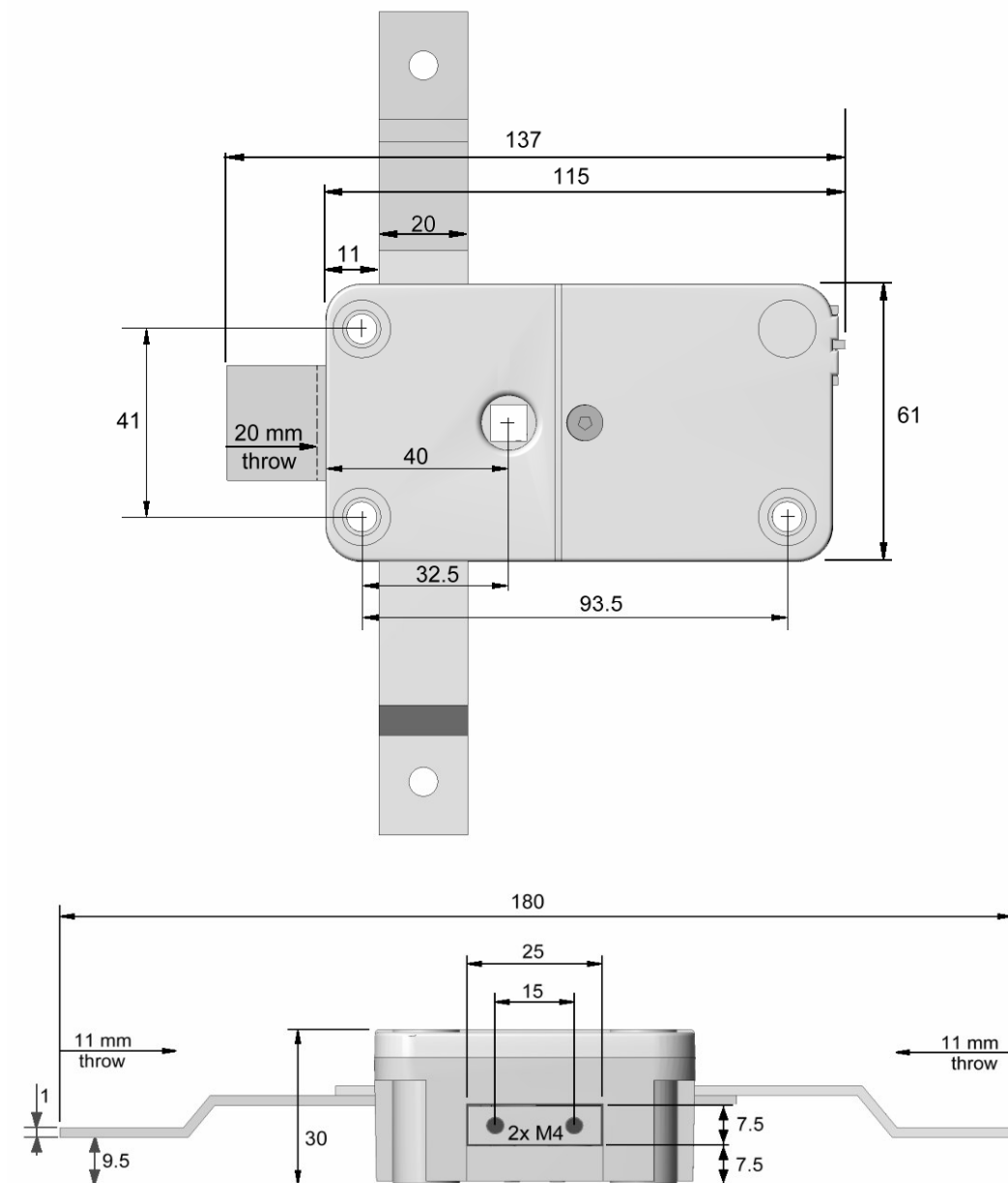
## MOUNTING INSTRUCTION

The VdS recognition of this lock is based on this mounting instruction. Read carefully.

The force applied to the lock bolt should not exceed 1 KN. If higher force is applied, please consult with the testing institute (i.e. UL, VdS).

Only use supplied screws to mount the lock. Torque momentum 3.5 – 5 Nm.

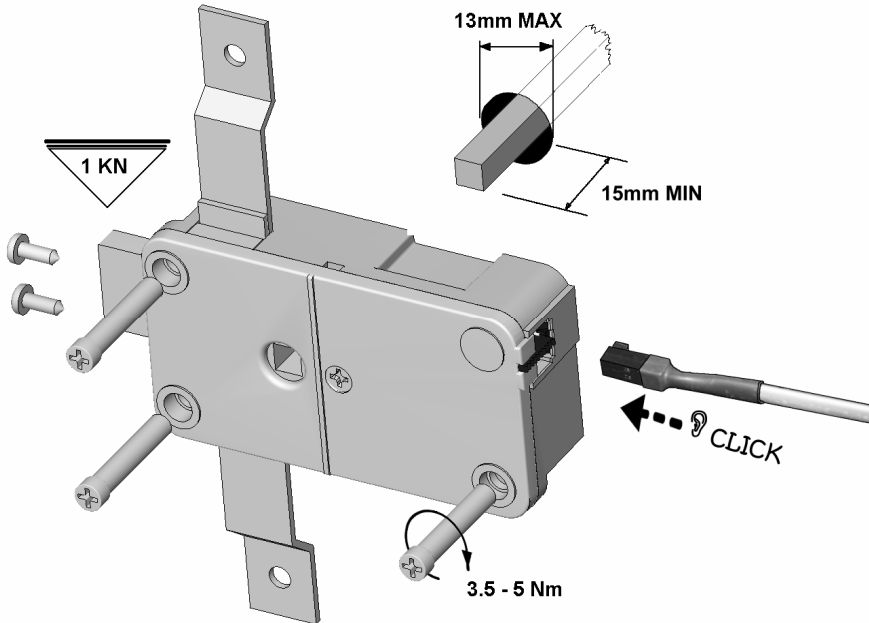
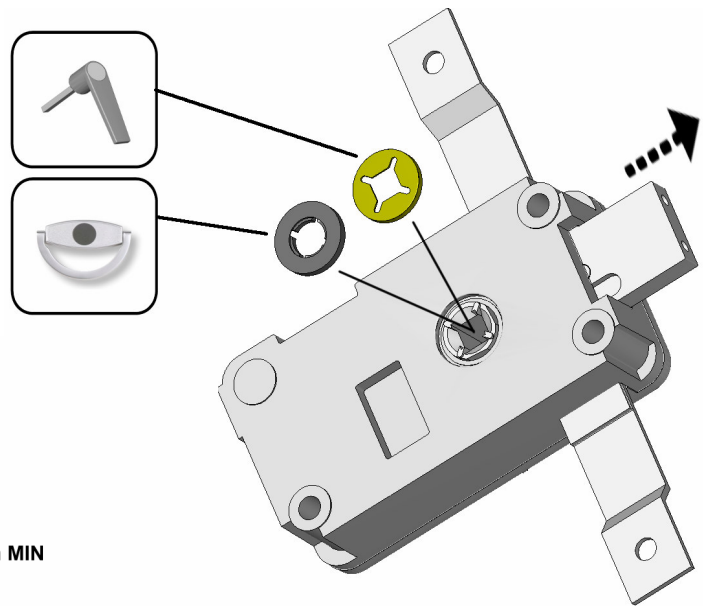
Spindle hole 11-13mm diameter. Cable hole 9-12mm diameter. Position of the cable hole depends on which entry unit is used.



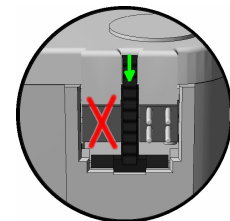
Bolt extensions can be mounted on the bolt head if required.

Mount the entry unit following separate instruction.

Insert the spring retainer (provided with the large handle) or the shaft guide washer depending on which handle is used.



Insert the connector of the entry unit as shown in the outer position. Check that the connector is completely seated and locked by the black cable retainer.



To remove the connector, use a small screwdriver to push down the cable retainer.

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 and sharp corners.

### FUNCTIONAL TEST (with door open)

Enter code (1,2,3,4,5,6) and turn handle clockwise towards OPEN position. The bolts should retract easily and there should be a positive snap action. To lock, turn handle towards LOCKED position. The bolts should move freely into their locked position (snap action). The lock secures automatically.

**Repeat functional test several times before closing the safe door.**

## DATA SHEET

<b><i>Mechanics</i></b>	
Opening	manually
Locking	manually
Blocking element	solenoid
Mounting dimensions	not standard
<b><i>Electronics</i></b>	
Powersupply	9V ALKALINE battery
<b><i>Software</i></b>	
Codes	2 (6 digit)
Primary code	1
Secondary code	1
Battery low signal	yes
Manipulation protection	5 minute lockout after 4 consecutive wrong codes
<b><i>Certifications</i></b>	
VdS	Class 2
EN 1300	Class B