

# *ePass*

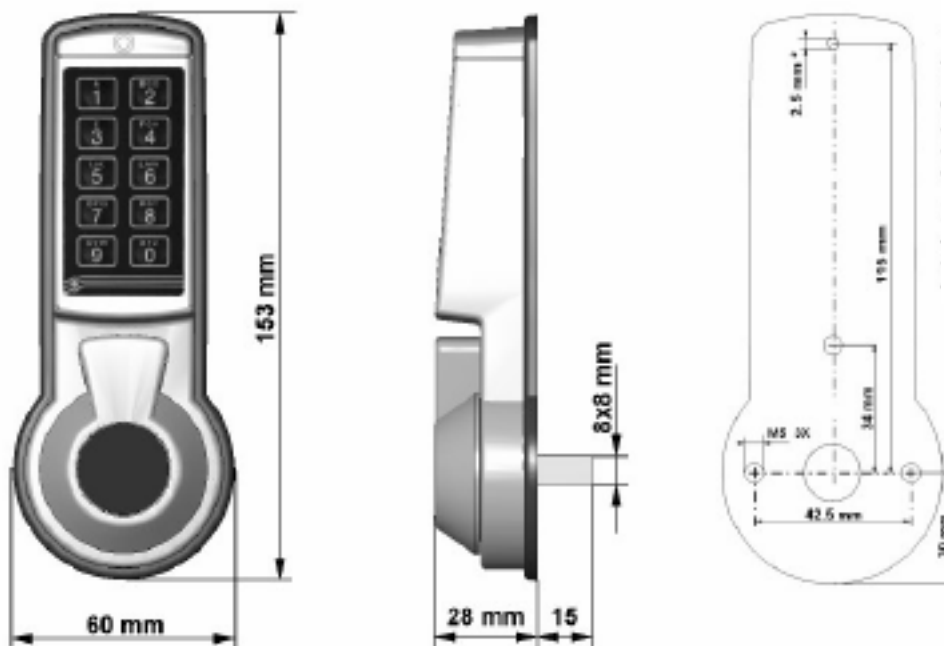
## *Technical Manual*



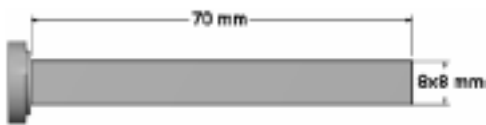
## *Electronic Cam lock*

### CHARACTERISTICS

The ePass features a 6-digit Main code that can be changed by the user. With the main code up to 9 secondary codes can be activated and deleted. The lock secures with a solenoid that blocks the shaft movement. If a valid code has been entered, the lock electronics removes the blocking for 3 seconds and the handle can be moved into OPEN position. When moving the handle into LOCKED position the ePass automatically secures. The ePass is delivered with Main code only (1-2-3-4-5-6) and right handed (RH) opening. With a small adjustment (see page 2), the lock can be changed to left hand (LH) opening. The ePass 1000 series are mounted vertical as shown above, the ePass 2000 Series are mounted horizontal (see right picture).



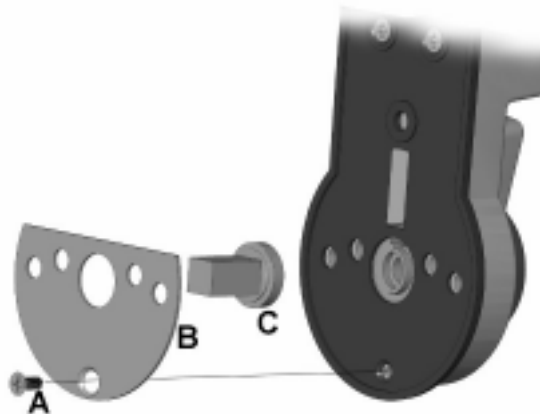
\* The required hole-diameter varies depending on the material of the mounting surface. 2.5 mm is suggested for thin sheet metal.



A longer shaft is available separately as well as M4 tapped shafts of 15mm and 70mm. Special executions are available on request.  
MOUNTING INSTRUCTION

## 1. Preparation (only required in previous revisions)

The current revision is delivered with the shaft already installed. The steps below are only required for previous versions. Remove screw **A** (PH1 screwdriver) and take out plate **B** and the shaft **C**. Cut shaft to desired length or prepare otherwise depending on the type of installation. (Re-)Insert the shaft **C** so it fits on the half-moon shaped bar on the driver. Place the plate **B** back on the unit with the tampered screw hole to the outside. Affix with screw **A**.



To change the unit from right handed (RH) opening to left handed (LH), unscrew the handle before applying the label. Pull the black disk off the spindle and flip it around. It should show "LH" engraved now. Push the disk back in place and affix the handle with the screw. The unit now opens by turning the handle towards left (counterclockwise).



## 2. Mounting

Mount the ePass housing with three (3) M5 screws (not included).

The tightness or looseness of the handle movement depends on the torque applied to the mounting screws. Adjust the screws so the handle operates to your liking. Use Loctite<sup>®</sup> to fix the setting. Cover the screw in the handle with the label.





To insert a battery, slide the cap off the unit. Connect one (1) battery to the battery clip. Only use fresh 9V-ALKALINE batteries from brand name manufacturers like DURACELL™. Insert battery as shown on the right. Align cap in the little track of the housing and slide back on. The battery cover features a positive snap to lock it to the unit. For additional protection against sliding off, use the provided screw. If the screw is not used the hole can be covered with the small label.



### 3. FUNCTIONAL TEST (with door open)

#### A. Test Electronics

Like all locks from NL LOCK this unit includes a unique feature to test the electronics: "Function 5"

1	Press and hold [5] until a double signal sounds and the light stays ON.	
2	Enter the all keys in exactly this sequence: [1]-[2]-[3]-[4]-[5]-[6]-[7]-[8]-[9]-[0]	<p>Push buttons slowly so you recognize the signaling of the lock. A double signal indicates that the key and the lock communicate properly.</p> <p>A long signal indicates that the electronics may be damaged.</p>

#### B. Mechanical Test

Enter code (1,2,3,4,5,6) and turn handle slightly towards LOCKED position to release blocking. Immediately turn towards OPEN position. The handle must be moving freely.

Turn handle towards locked position. The lock must automatically secure. Repeat functional test several times before locking the door.



**RH**



**LH**

## *Opus line*

---

### DATA SHEET

<b>Mechanics</b>	
Opening	Manually
Locking	Manually
Blocking element	Solenoid
Mounting dimensions	Not standard
<b>Electronics</b>	
Power supply	9V ALKALINE battery
<b>Software</b>	
Codes	10 (6 digits)
Primary code	1
Secondary code	9
Battery low signal	yes
Manipulation	protection 5 minute lockout after 4 consecutive wrong codes