Basics of Remote Keyless Entry
Remote Keyless Entry (1)
Uni-directional

First systems: **Fixed code**
Remote Keyless Entry (2)
Uni-directional *with Crypto*

Counter-based **Rolling code**

encrypt(124)
encrypt(125)
...

Cipher
Remote Keyless Entry (3)
Bi-Directional: Challenge-Response

1. computes: \( R'_i = e_k(C_i) \)
2. verifies: \( R'_i \equiv R_i \)