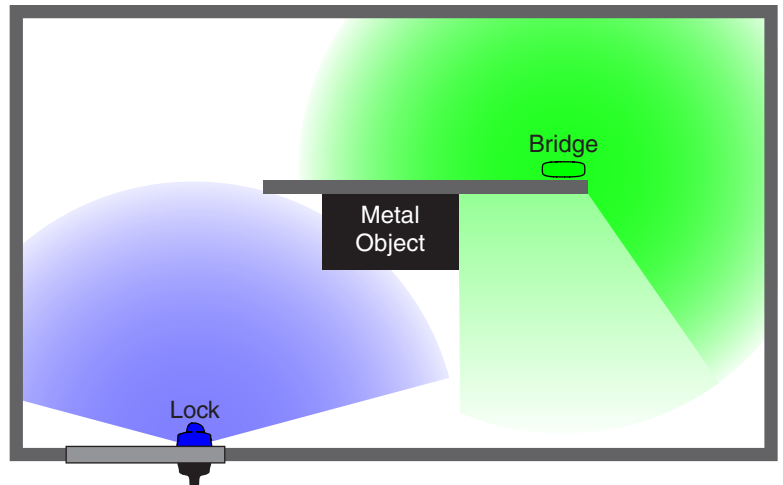


## Understanding Signals

Below are some examples of how signals interact with objects you may have in your home. Walls will diminish the signal. Metal objects (such as refrigerators or file cabinets) will block the signal entirely. Also notice that the signals for the light/appliance module and the lock are directional. The lock and light/appliance module have a better chance of communicating if they are "pointing" at each other.

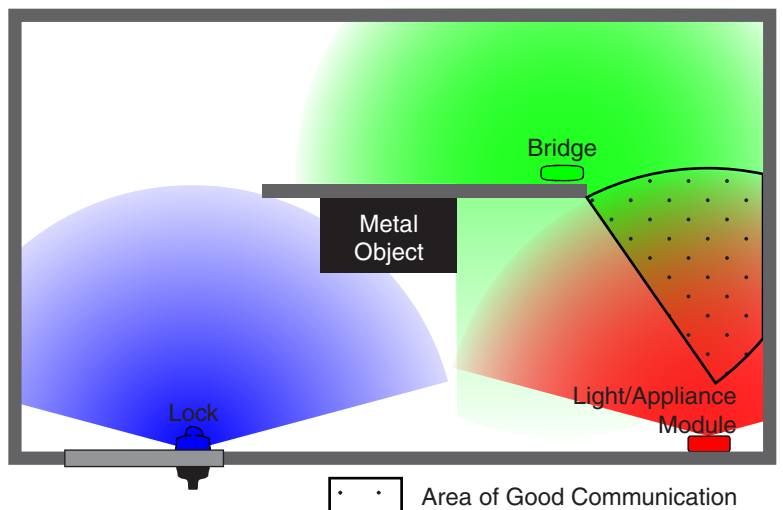
### No Communication

In this drawing, there is no communication between the bridge and lock. The signal is first diminished by the wall. Then the signal is blocked entirely by the metal object.



### Limited Communication

In this drawing, the light/appliance module and the bridge can communicate, but the lock can still not communicate with anything.



### Good Communication

In this drawing, the signal problem is fixed by placing the light/appliance module in a location that has good communication with both the bridge and the lock. The light/appliance module repeats the signal from the bridge to the lock.

