WHAT IS CLAIMED IS:

1. An electric mortice lock for a door body assembly, the door body assembly comprising a door frame and a door body, and a first end of the door body being suitable to be pivotally arranged on the door frame, wherein the electric mortice lock comprises:

a lock body suitable to be arranged on one of the door frame and the door body, and provided with a retractable lock tongue;

a lock piece suitable to be arranged on the other of the door frame and the door body, and provided with a lock hole suitable to cooperate with the lock tongue;

a triggering device suitable to be arranged on at least one of the door body assembly and the electric mortice lock, and configured to be triggered when the lock tongue is aligned with the lock hole; and

a control device electrically connected to the triggering device and the lock tongue, and configured to control the lock tongue to extend out of the lock body when the triggering device is triggered,

wherein the triggering device comprises a detecting device and a detected device, and the triggering device is triggered when the detecting device detects the detected device;

when the triggering device is located at a first side of the lock tongue away from the first end of the door body, in a width direction of the electric mortice lock, one of the detecting device and the detected device, which is on the door frame, has a center offset toward an outer side of the door body assembly; and

when the triggering device is located at a second side of the lock tongue close to the first end of the door body, in the width direction of the electric mortice lock, one of the detecting device and the detected device, which is on the door body, has a center offset toward the outer side of the door body assembly.

2. The electric mortice lock according to claim 1, wherein one of the detecting device and the detected device is suitable to be arranged on the lock body, while the other of the detecting device and the detected device is suitable to be arranged on the lock piece.

3. The electric mortice lock according to claim 2, wherein the one of the detecting device and the detected device is suitable to be arranged at one end of the lock body in a length direction, and the lock tongue is suitable to be arranged at the other end of the lock body in the length direction.

4. The electric mortice lock according to any one of claims 1 to 3, wherein one of the detecting device and the detected device is suitable to be arranged on the door frame, while the other of the detecting device and the detected device is suitable to be arranged on the door body.

5. The electric mortice lock according to any one of claims 1 to 4, wherein the detecting device is a proximity switch, and the detected device is a magnet.

6. The electric mortice lock according to claim 5, further comprising a shielding member arranged at a side of the detecting device adjacent to the detected device.

7. The electric mortice lock according to any one of claims 1 to 4, wherein the detecting device is an infrared sensor.

8. The electric mortice lock according to any one of claims 1 to 7, wherein a center axis of the lock tongue coincides with a center axis of the lock hole when the lock tongue is aligned with the lock hole.

9. A door body assembly, comprising the electric mortice lock according to any one of claims 1 to 8.

10. A vending machine, comprising the door body assembly according to claim 9.