way as to stabilize the size of the gap and alignment of the movable part between the stationary part and the stationary light source,

characterized in that,

the movable part comprises a movable light source comprising a phosphor arranged for emitting light as a reaction to receiving light by the stationary light source by applying remote phosphor technology.

2. The luminaire according to clause 1, characterized in that the switching on or off of the stationary light source is controlled by one or more sensors, wherein the one or more sensors are arranged for detecting the entering and/or exiting of the movable part into the electromagnetic field and subsequently triggering the control unit to switch the stationary light source on and/or off respectively.

3. The luminaire according to clause 2, characterized in that a sensor of the one or more sensors comprises a sensor of the group of sensor comprising:

- a Hall Effect sensor of the one or more Hall Effect sensors;
- a photo sensor, such as a photoresistor, a photodiode or a phototransistor;
- a light break beam sensor, comprising a light sender in the base and a light receiver in the stationary part or vice versa;
- an infrared sensor, such as a passive infrared sensor or an active infrared sensor;
- an ultrasonic sensor such as an ultrasonic distance sensor;
- a laser break beam sensor;
- a reed switch.

4. The luminaire according to any one of the preceding clauses, characterized in that the movable part is arranged for being magnetically suspended below the one or more electromagnetic coils.