

## Long range & high bay occupancy detector K2150

Up to 3000 m<sup>2</sup>

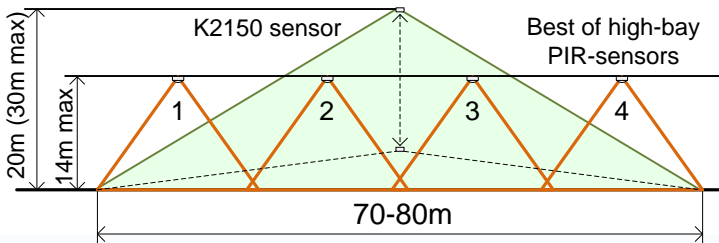


### Application

- Warehouses with the height from 3m to 30m and the freezer warehouses
- Indoor and outdoor car parking, petrol stations - sensitivity zone up to 3000 square meters
- Docks, freight distribution centres, industrial facilities and territories
- Server rooms, DPC, office centres corridors, public gardens, parks
- Traffic density control and the number of vehicles calculation for the adaptive traffic lights
- Component of the IoT systems: Smart Street, Smart City, Smart Factory
- Premises security sensor and traffic lighting control
- Various automation systems component - information about the appearance of human being, means of transport or other moving items within the automation object zone with the area from 1 sq m to 3000 sq m. **The sensor identifies the direction of movement, speed, size of the object and is able to count the amount of objects moving to various directions**

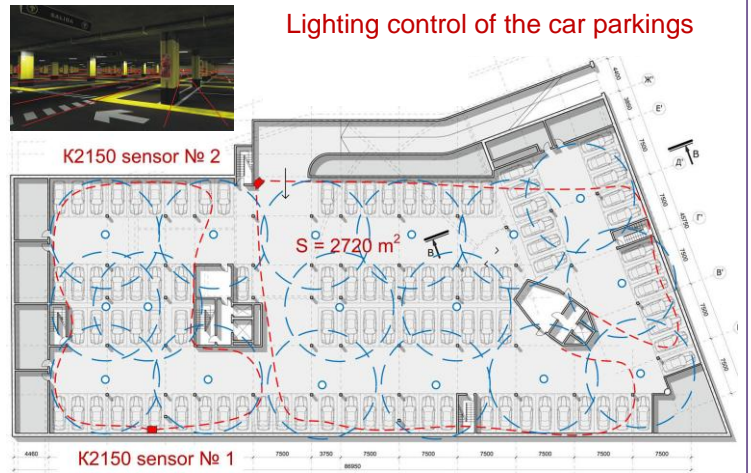
Since July 2018, K2150 sensor included in the portfolio of "1000 World's efficient solutions" The World Alliance for Efficient Solutions, Switzerland.

### Warehouses ranging 3 - 30 m in height - lighting control



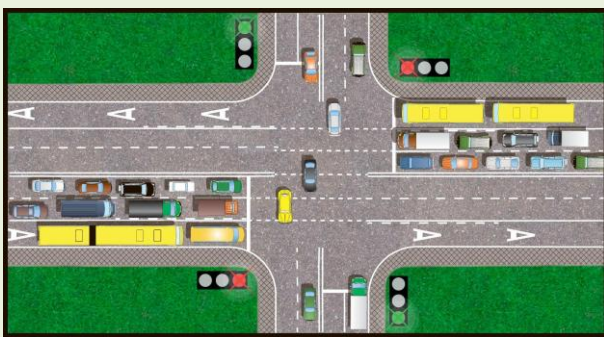
- Energy saving up to 80%
- 1 year payback period
- No analogs in the world in terms of height installation and sensitivity zone, when one sensor covers 80 meters of the warehouse alley
- One K2150 sensor supplants 3-4 PIR sensors
- Operates in the freezing warehouse

### Lighting control of the car parkings



- Sensor sensitivity zone is up to 3000 square meters
- Energy saving up to 80%
- 1 year payback period
- Two K2150 sensors instead of 17 ceiling PIR sensors (see fig.)

### Traffic density sensor



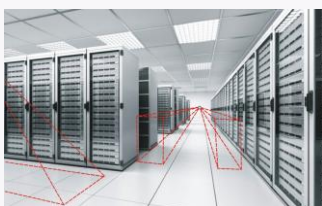
- Calculation of the vehicles moving in various directions
- Vehicle speed control
- Information transmission about the traffic flow to the nearest adaptive traffic lights for calculating the parameters of switching in different directions

### Lighting control and petrol station automation



- Public petrol stations and unmanned petrol stations!
- Automatic lighting control, information transmission about the car
- IP cameras control

### Data centre lighting control



- One sensor to cover 80 meters of an alley
- One sensor instead of 3-4 ceiling PIR sensors
- Default outputs: 30A relay and 1-10V for dimming

### Manufacturing automation, buildings and territories automation



- Presence sensor of a person or any moving object in an area of 1 to 3000 square meters
- Any output interface on request
- All weather execution, IP65, IP67

## Use for lighting control

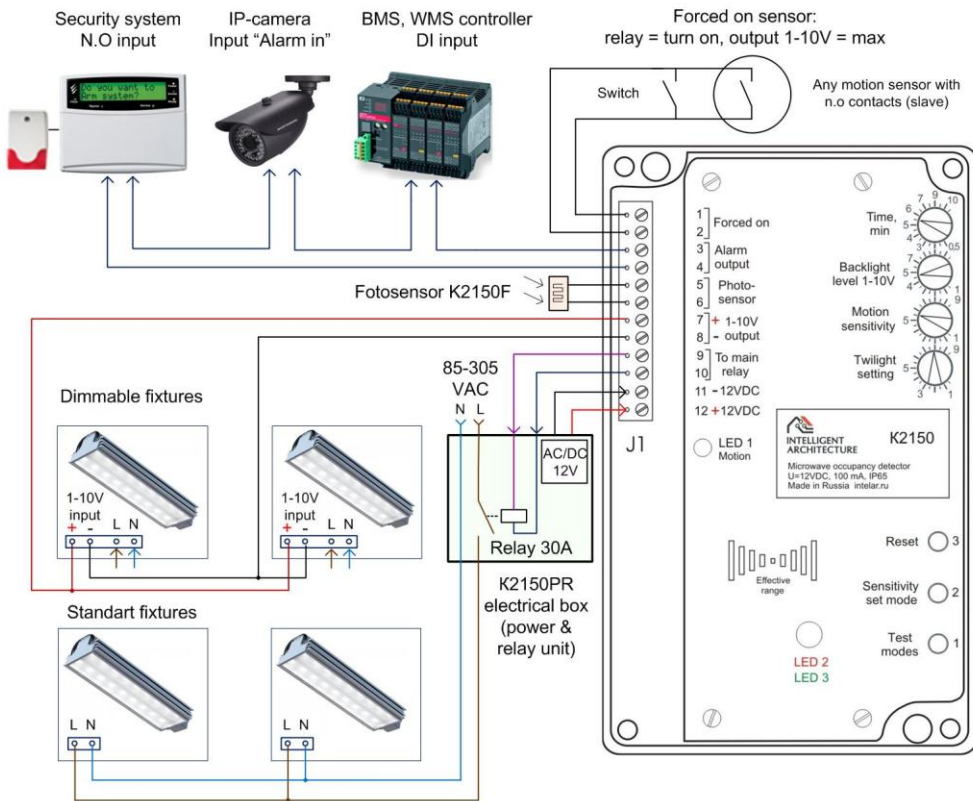


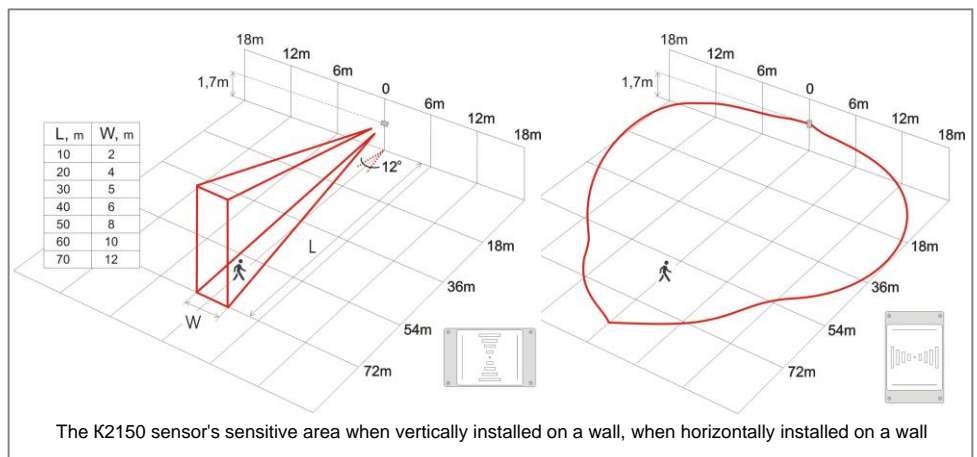
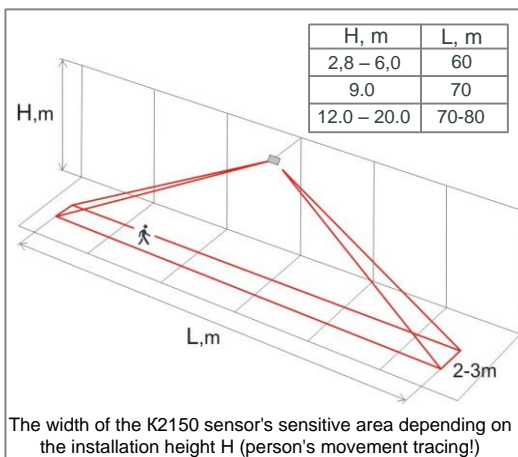
Diagram of the K2150 sensor connections to external devices

### K2150 is a three-in-one sensor: One sensor and three outputs:

1. the relay 30A output is for controlling regular lamps (if a movement does not occur, then the lamps are off, if it does, then they are on);
2. the 1-10V output is for adjusting a light flux gradually within 2-100 % (if a movement does not occur, then the lamps operate at the economical mode set by the installer, from 2 % to 100 % of the light flux, if it does, then they gradually, in 2 seconds, switch to the 100 % light flux mode). For your information: at the 5 % light flux mode, the energy consumption of an LED lamp decreases by 12 times, of a luminescent one by 6 times!
3. the special output is for connecting the sensor to a **security alarm** system or to **IP-cameras**. By using this output, the sensor can also be connected to an WMS, BMS or other automation systems.

The sensor may optionally be supplied with: **DALI, KNX, LoRa, Sigfox, NB-IoT...** modules and a long-range radio channel (up to 15 km).

### K2150 sensor's sensitive area



### Who are we looking for?

Distributors and installation companies, end users (warehouses, parking lots, ports, offices, data centers), Smart building & Smart City system integrators, IoT LoRa, NB-IoT, Sigfox system providers and integrators.

For PIR sensors & automation manufacturers - OEM is welcome!