

Long-range 3D LiDAR

Under development



Demo unit on display

Long-range 3D LiDAR

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NIPPON SIGNAL

The 3D LiDAR, which has become the de facto standard for obstacle detection in platform screen doors, has evolved.

Conventional product FX10s



Widely adopted in the platform screen door market.



- High performance against ambient light (at 200,000 lx)
- Usable day and night
- Compact, lightweight, long lifespan
- More than 50,000 units installed

Distance measurement performance increased 4x

FX10s



measurement distance

5m

FX10L



measurement distance

20m

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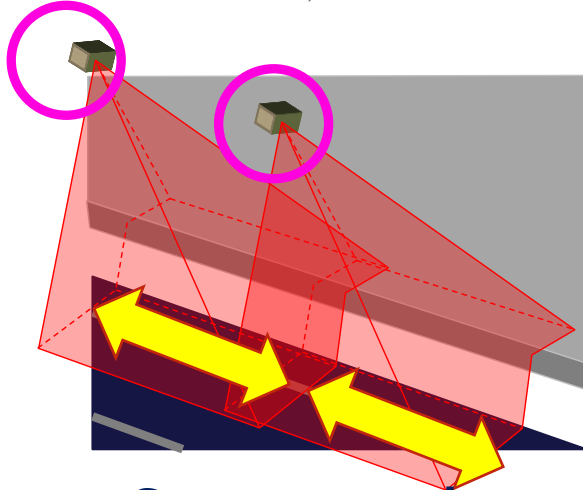
4 times longer measurement range
enabling a significant reduction in the number of sensors.

Application

Platform monitoring (suspended type)

Conventional product FX10s

Distance: 5m ▶ 1 sensor per door

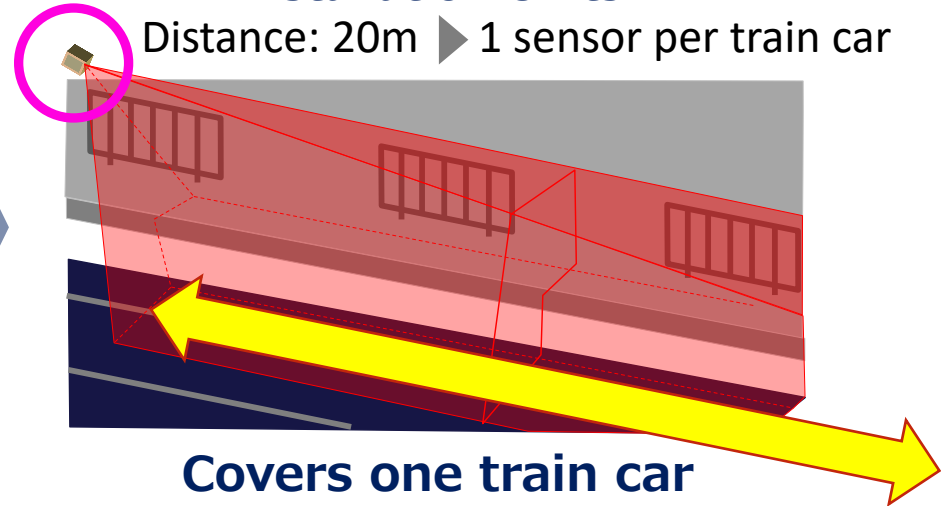


Covers one door

FX10L (under development)

Significantly Reduced
Installation Units

Distance: 20m ▶ 1 sensor per train car

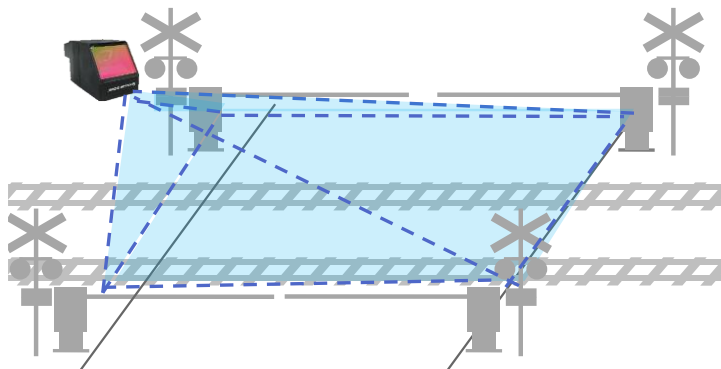


Covers one train car

**Towards early social implementation
in railway and infrastructure markets beyond platform screen door.**

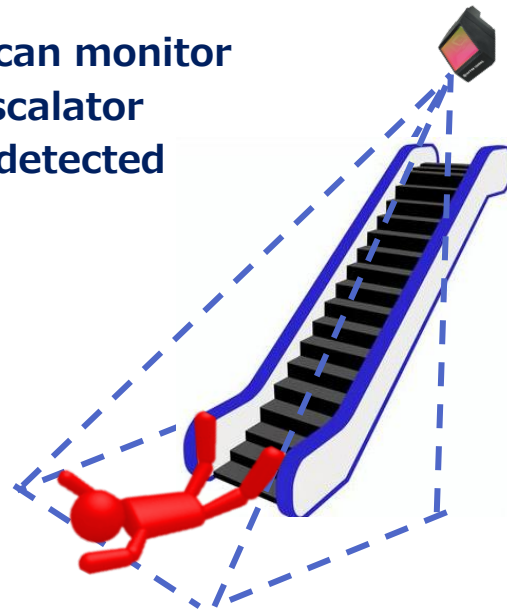
Example Level crossing obstacle detection

- Detection area adaptable to various level crossings



Example Escalator congestion and falls detection

- One sensor can monitor the entire escalator
- falls can be detected in real time



Please view the demonstration.

Demo

FX10L installed on the booth ceiling



Overhead view - Sensing in progress