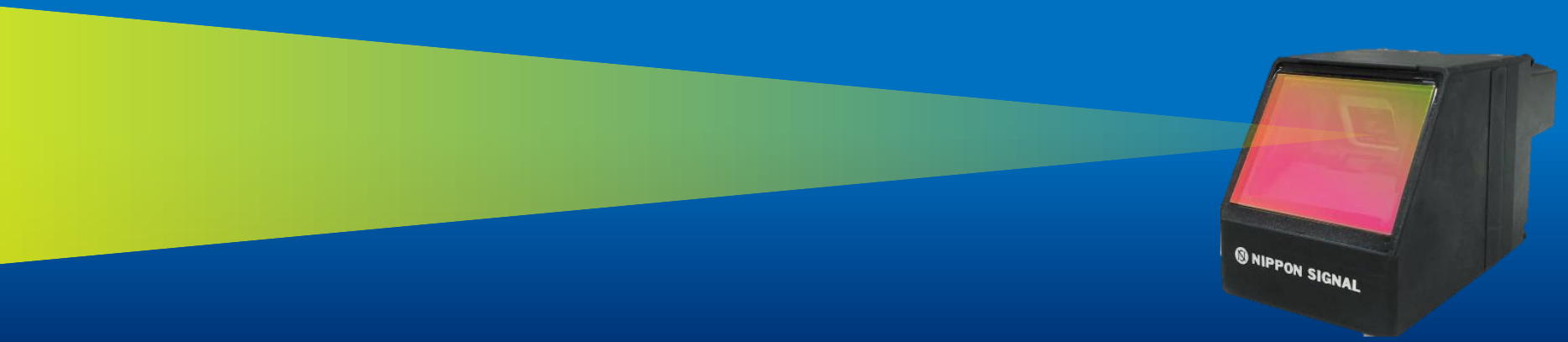
Realize Sustainable Mobility

NIPPON SIGNAL

Long-range 3D LiDAR



Long-range 3D LiDAR

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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**

Long-range 3D LiDAR

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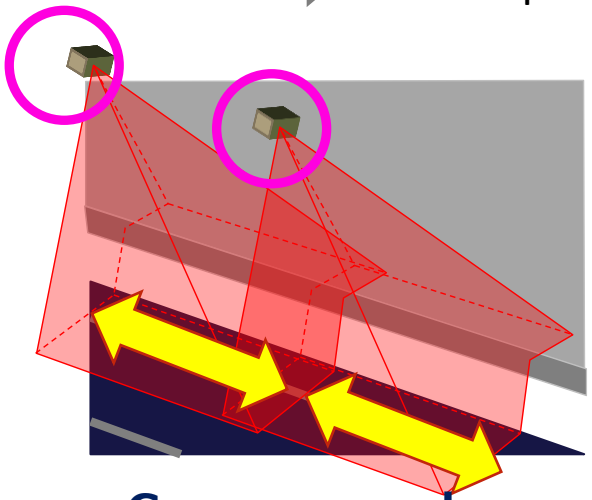
4 times longer measurement range
enabling a significant reduction in the number of sensors.

Application Platform monitoring (suspended type)

Conventional product FX10s

Distance: 5m ▶ 1 sensor per door

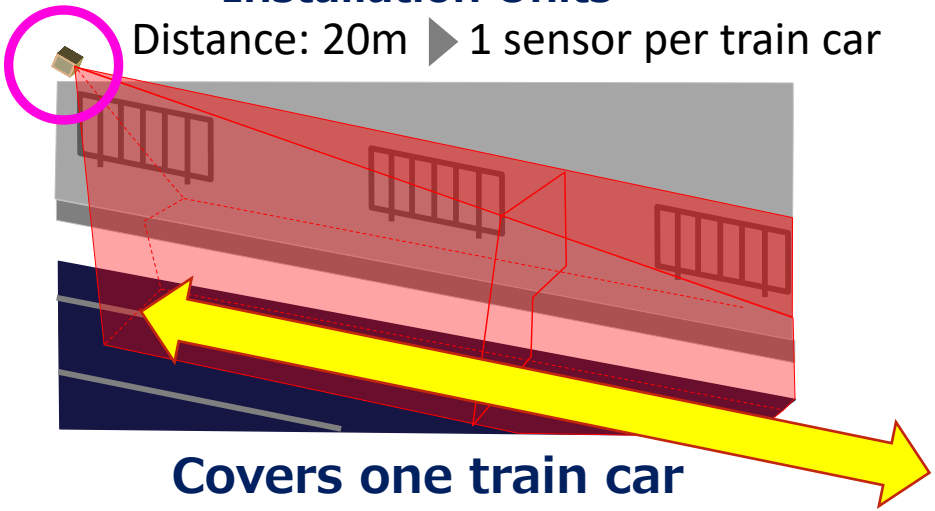


Covers one door

FX10L (under development)

Significantly Reduced Installation Units

Distance: 20m ▶ 1 sensor per train car



Covers one train car

Long-range 3D LiDAR

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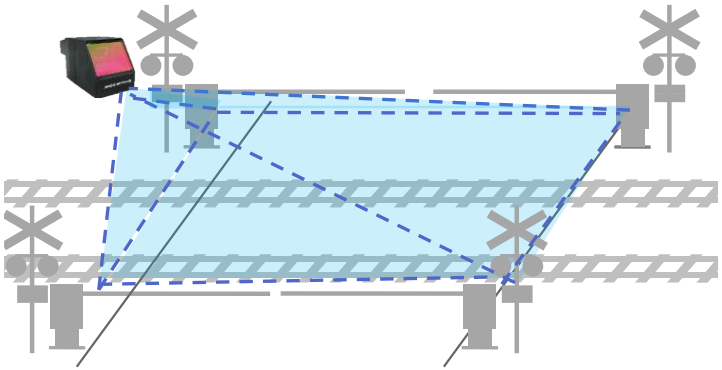
Towards early social implementation in railway and infrastructure markets beyond platform screen door.

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