3Dsafetysentinel®

wide automation



INTELLIGENT
AI-VISION
SAFETY GATE

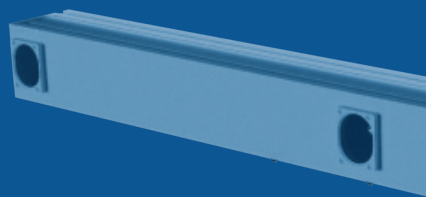
safety sensors

Smart safety by **vision**

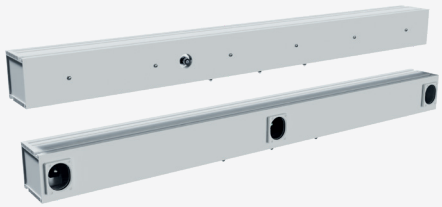
[3dss_product overview]

safety sensors

SAFETY AT EVERY ACCESS POINT.



vision safety barrier for industrial gates



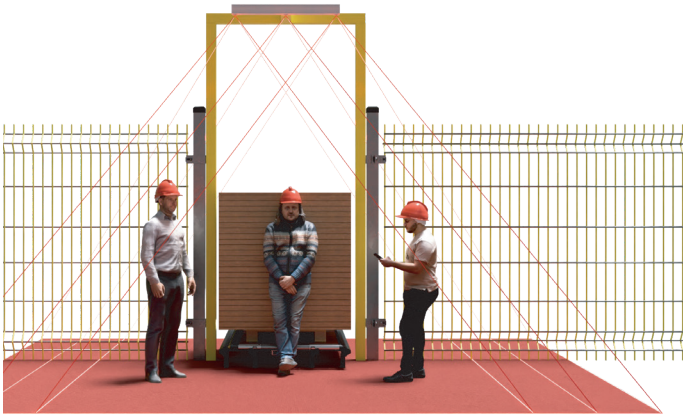
PLd Cat. 3

Introducing 3DSS™ Gate

3DSS™ Gate is a **Cat. 3 vision-based safety system** designed to **protect industrial access points** and work areas. Its architecture reaches **Performance Level d** (PLd), delivering dependable safety in challenging industrial conditions.

The sensor **detects human presence** within predefined zones and sends an immediate **safety stop signal** to the connected machinery, **preventing accidental access** and **potential collisions**.





Protected gates, **free movement**

Using **stereo cameras** mounted **above the workspace** (at 3.5 m height), **3DSS™ Gate** performs **continuous presence detection**. To do that, it employs **vision algorithms** that **recognize** the entry of **a person** (even partially visible) inside the defined alarm area.

The **monitored area** at floor level (alarm zone) measures 1.54 m × 0.70 m and **can be reduced** during configuration by a qualified technician **to match** smaller machine **layouts**.

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MONITORING AREAS

Layered detection for **graded safety**

The **monitored area** is divided into **two functional zones**, each with a specific role in the safety logic.

The two detection layers work together to **provide continuous, intelligent protection** compliant with certified safety standards.

Each monitoring area serves a distinct safety role:

monitored area

Full field of view captured by the cameras. The system tracks all movement within this perimeter.

Width: 5.9 m — Length: 4.9 m

safety trigger area

Active safety area that triggers the certified stop signal. Presence here immediately halts the machine.

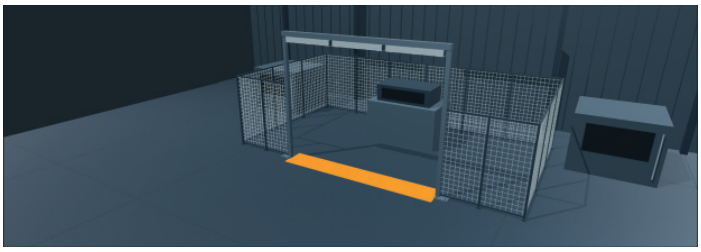
Width: 1.54 m — Length: 0.70 m (configurable only to reduce size).



Modular installations

Illustrative configurations.

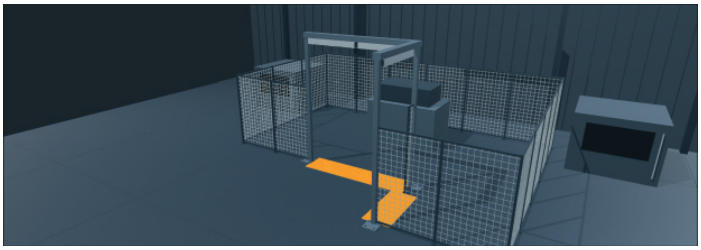
Linear configuration



Each **certified monitoring unit** covers a **1.54 × 0.70 m area** that can be aligned with others to **protect wider gates,** long conveyor lines, or multiple **adjacent access points**.

Installed **overhead at 3.5 m**, 3DSS™ Gate keeps the **workspace completely clear**, ideal for **robot cells**, **assembly lines**, and **loading areas** where **physical barriers** would **limit efficiency**.

Corner configuration



The configuration is managed entirely through a **web-based interface**, accessible **via Ethernet**.

The installer can **define the alarm area** directly from the **live camera view**, **adjusting its shape and size** to match the machine layout. The system automatically **validates the geometry** according to **certified limits** and saves the configuration in a **secured audit log**.

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The safe side of automation