

IoT

Type3

SIL3

IP65 CE



WORLD'S FIRST
STEREO VISION
SAFETY BARRIER

safety sensors

The safe side
of **automation**

KEEP A SMART WATCH ON WORK

stereo vision safety barrier



dust resistant



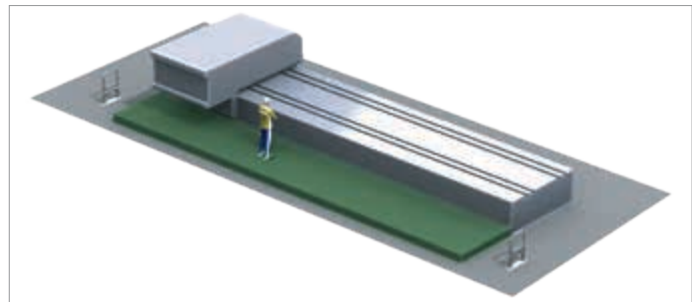
water resistant

3D safety sentinel®

3DSS is SIL3 **stereo vision system**, certified for **safety-critical applications**. It complies with the essential safety requirements in order to be used as a safety control system for **detecting people** for **protection** on automatic machines.

The system uses cameras installed onboard of **specific supports** and can be composed of one single turret or a couple of turrets facing each other, in a **modular configuration**.

The device is able to detect the presence of people or objects (up to 2) within the monitoring area.

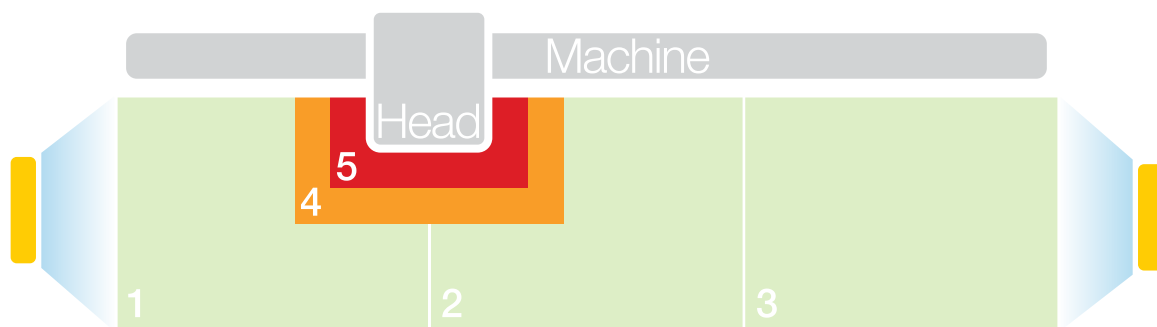


The **overall area monitoring** allows to detect objects in the area close to the turret (see picture above) where the stereo vision is affected by intrinsic limitation, due to the closeness of the cameras. This feature signals the **presence of an object or subject** on the area, but does not identify its position. The intrusion in this area is signaled by an appropriate and **distinct pair of relays**.

MONITORING AREAS

Customizable static and dynamic areas

The monitored surface can be divided into a max. number of 3 fixed areas on the **ground**, called **static areas**, plus a mobile area around the **tool holder head**, the **dynamic area**. Alternatively, the surface can be divided into 2 static areas plus 2 dynamic areas around the tool holder head. The size and type (fixed or mobile) of the areas are defined only once when the **system is set up**.



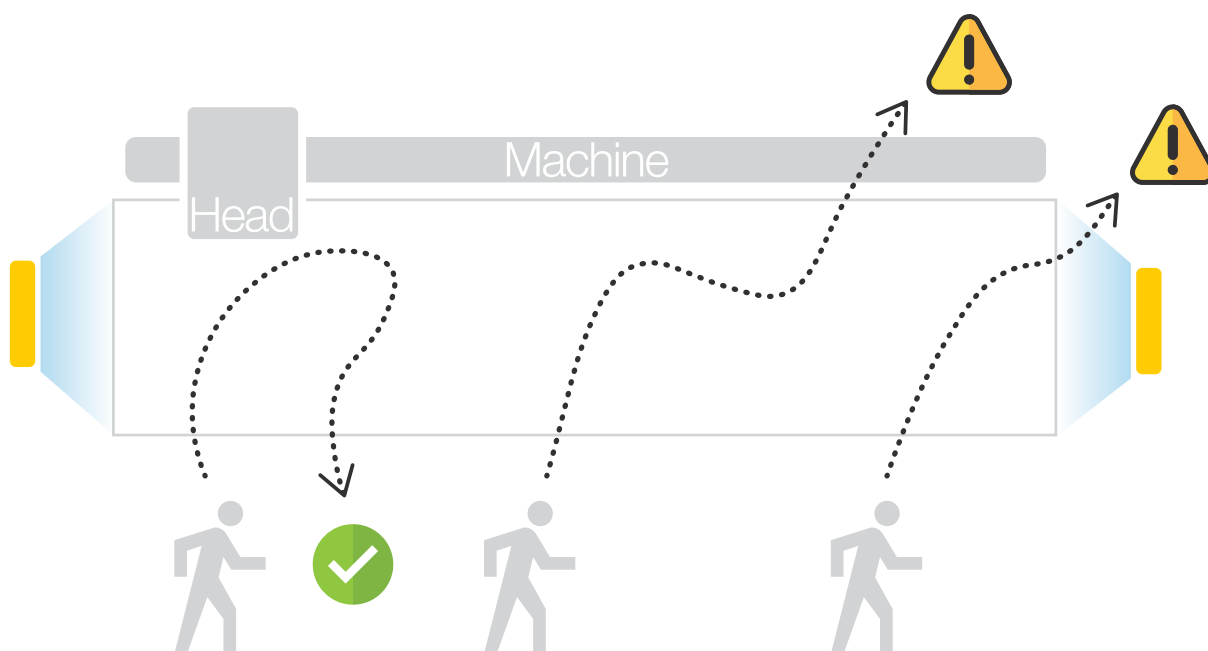
- Alarm area [1,2,3] Static areas
- Pre-alarm area [4,5] Dynamic areas

The system can track objects that enter and leave the virtual mat. Its tracking algorithm focuses on monitoring the **presence of the operator** on the virtual mat.

If a person **enters the monitored area** and subsequently exits the virtual mat – walking through a forbidden path like the side area of the cameras or, even worse, the tool machine side – a **dedicated pair of relays** are activated.

TRACKING

Operator position control



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