AWARENESS
COLLISION DETECTION SYSTEM

Driver Awareness System on Material Handling Equipment.

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AutoControl Systems

EC8391 AU38483 MRB6313

Camera system O3M.

For the harshest environments:

Since the sensor does not have any moving components, it is virtually free of wear giving the system unrivalled longevity. Its high ambient temperature range of -40 to 85 °C and protection rating of IP 67 and IP 69K is the basis for universal use.

Integrated Lens coating and blockage detection:

Allowing the machine to transit in between "normal" temperature rooms to cold / freezing rooms as well as signal lens blockage, in case of heavy soiling, to the operator via either an audio signal, light or via an optional display.

Resistance to extraneous light:

The PMD technology ensures high repeatability of the measured data even in difficult ambient light conditions or with direct sunlight, giving the system freedom to operate both indoors or outdoors in 120 kLux (full solar radiation).
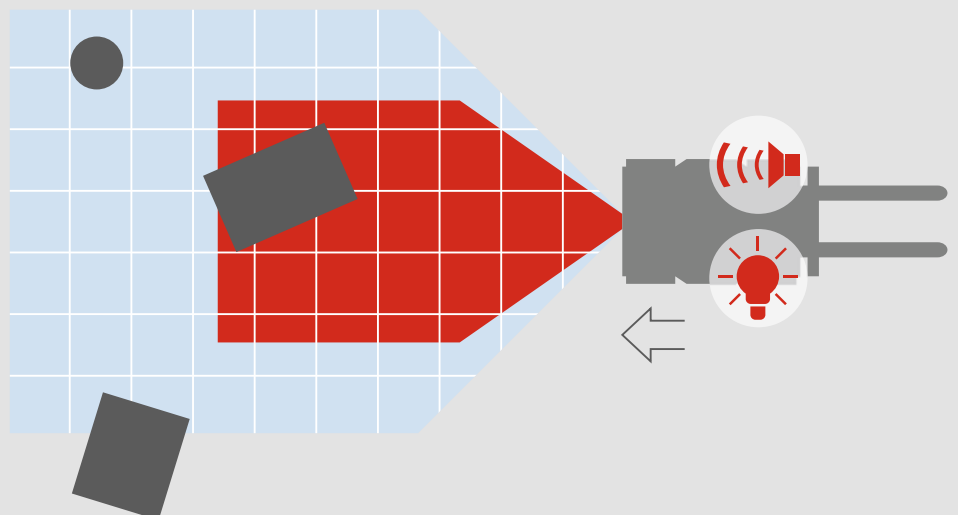
Fast reaction:

The 2 x 32-bit processor architecture ensures very fast reaction time, less than 100 ms.

Quick ROI:

Very fast payback over the life cycle of your material handling asset, as the system is easily transferred to another machine due to its "plug and play" design.

Driver Awareness System for reversing on Material Handling Equipment.

Industries such as material handling, construction, waste and agriculture all use machines and plant equipment which by their very nature pose a danger when reversing.

The Driver Awareness System is in most cases, a "plug and play" solution which surveys the rear area when in reverse alerting the operator when approaching any type of object or person. Optional warnings can be given if the machine approaches the edge of a wharf or loading bay, prompting the operator to stop before the machine falls of the cliff.

The alert is given either via a visual alarm (recommended for noisy environments), audio alarm or both.

Outputs are available for example in case machine speed reduction needs to be activated.

The size and shape of the danger zone (s) are set up depending on the vehicle type and the company safety policy. Different warning signals can be defined according to the level of risk.

The system is resilient in tough conditions due to its robustness with no moving parts.

Although this system is designed for material handling vehicles it is easily adapted to a large range of vehicles and applications. Skid steers, excavators, and trucks are an example of the vehicles that could benefit from a collision awareness system.
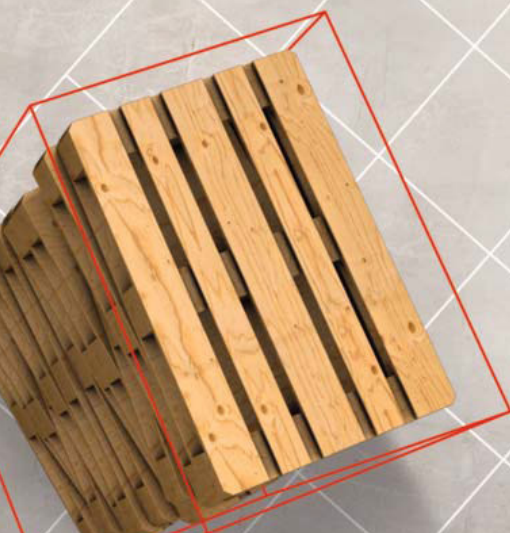
The 3D sensor has no moving components in contrast to other area surveillance sensors such as laser scanners. The sensor detects scenes and objects three dimensionally with only one image capture. This avoids the motion blur that can occur with line scanners. The integrated, active suppression of background illumination almost completely prevents saturation of the image by extraneous light. That means that the sensor can be operated in bright sunlight up to 120 kLux.

Sensor Technical Data:

Angle of aperture	95...32
Type of sensor	PMD 3D Time Of Flight chip
Ingress protection rating	Sensor IP 67, IP 69K; controller IP 67
Vibration resistance	20 g
Shock resistance	50 g
Immunity to extraneous light	120 kLux
Ambient temperature	-40...85 °C
Operating voltage	9...32 V DC

Call us today for an obligation free quotation or to book a demonstration.

Phone: (08) 9258 4555

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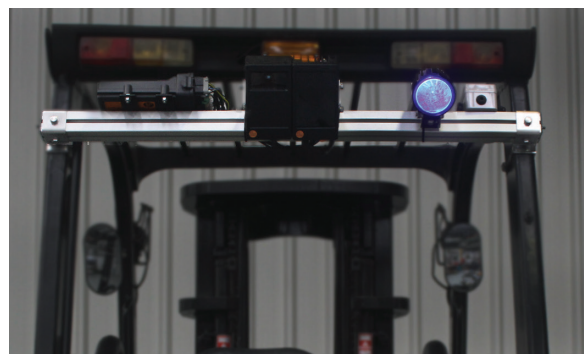
Contact Us *to talk about how the "***Awareness*** *system can* **benefit** *your* **business**

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