Safety laser scanners PSENscan – ROS packages for AGV navigation

PSENscan

The safety laser scanners PSENscan now offer more than just safe, productive monitoring of stationary or mobile danger zones. With our new ROS packages, PSENscan can now also be used for the dynamic navigation of automated guided vehicles (AGV), for example using SLAM (Simultaneous Localization and Mapping). Through the transmission of scanner raw data (measurement data), various additional applications can also be implemented in the field of robotics. Several safety laser scanners can thus be integrated simultaneously into an existing ROS environment.

Our ROS packages satisfy not only Pilz quality standards, but also all industrial requirements and ROS industrial standards. To facilitate integration, our ROS packages can be installed directly from ROS. All packages are also available as source code on GitHub.

Your benefits at a glance

- Simple integration of safety laser scanners into an existing ROS environment
- The use of several safety laser scanners is possible
- AGV navigation e.g. with SLAM (Simultaneous Localization and Mapping)
- Can be used for a variety of applications in the robotics field thanks to simple data exchange via standard ROS messages (LaserScan)
- Rapid development and implementation of new software features thanks to global Pilz Support
- Compliance with ROS Industrial Consortium and Pilz software development standards
- Installation via ROS or available as source code on GitHub

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Safety laser scanner PSENscan

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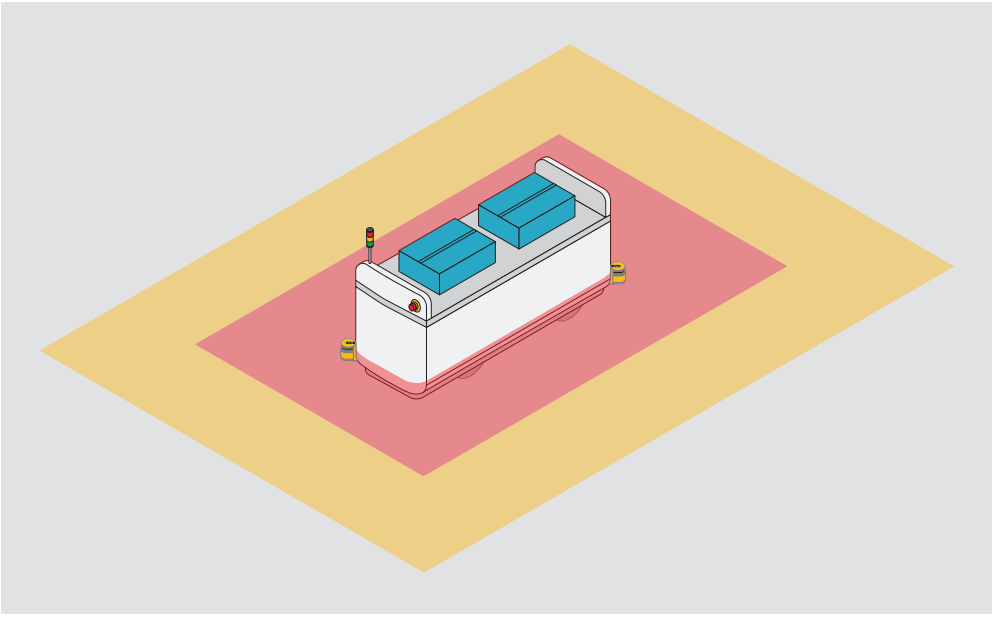
Type	Common features	Order number
	▸ Compliant and approved in accordance with: - EN/IEC 61496-1: Type 3 - EN ISO 13849-1: PL d - IEC 61508: SIL 2 ▸ Opening angle: 275 degrees ▸ Operating range: 3.0 or 5.5 m safety zone, 40 m warning zone ▸ Reaction time: 62 ms ▸ Protection type: IP65 ▸ Dimensions (H x W x D) in mm: 152 x 102 x 112.5	
Master versions	Further functions: Muting, EDM, Override, Restart in accordance with EN ISO 61496-3, vertical applications	
PSEN sc M 3.0 08-12	3.0 m safety zone, 8 or 12-pin exchangeable memory module	6D000016
PSEN sc M 5.5 08-12	5.5 m safety zone, 8 or 12-pin exchangeable memory module	6D000017
PSEN sc M 5.5 08-17 [1)]	5.5 m safety zone, 8 or 17-pin exchangeable memory module	6D000019

[1)] Available soon

The ROS package is available as source code on GitHub:
https://github.com/PilzDE/psen_scan



All-round protection of AGV with just two safety laser scanners.

Keep up-to-date on safety laser scanners PSENscan:

Webcode: web181395

Additional information on the topic of ROS at:

Webcode: web200621

Online information at www.pilz.us

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