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Press Message

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Safe radar system PSENradar from Pilz: new applications due to expanded field of vision and FSoE connection - work safely under the most rugged conditions

Ostfildern, 06.03.2024 - **With the safe radar system PSENradar from Pilz, protection zone monitoring can now be implemented in rugged environments for additional applications: thanks to expanded field of vision functions, the radar sensors are easier to integrate into different production environments. The flexibility resulting from adaptable fields of vision offers particular advantages in confined spaces. It is also now possible to connect to the open safety protocol Safety over EtherCAT FSoE: there is less work involved in wiring and the costs are lower.**

In addition to the available radar sensors with a detection range of 0 to 5 metres, the safe radar sensor PSEN rd1.2 sensor F-FOV LR is now also available with a range of 0 to 9 metres. Efficient safeguarding of mobile applications is possible as a result.

Flexible viewing angle = greater productivity

New on both sensor devices are the options for flexible configuration of fields of vision: besides the symmetrical viewing angle, asymmetrical and corridor-like viewing angles can now also be configured. This enables PSENradar to be used reliably in various production environments. It also saves space in the production area, particularly in the event of cramped conditions in which machines are located immediately next to one another, for example, or when walkways run directly past machinery. Now that the settings for the field of vision can be configured more individually, the radar sensor can be positioned more flexibly, without restricting the production operation. Not only does this provide greater safety in rugged environments, but it also boosts productivity.

Radar connects

Together with the configurable small controller PNOZmulti 2 from Pilz, PSENradar offers a safe complete solution for protection zone monitoring - including safe data transfer with FSoE in the EtherCAT communication system. The new evaluation device for the radar system PSENradar enables FSoE functionality in accordance with IEC 61508, for safety applications up to SIL 3. As FSoE-MainInstance (FSoE Master), PNOZmulti 2 combines monitoring of all of a radar application's safety functions in one device, and establishes connections to safe FSoE SubordinateInstances (FSoE Slaves) in the network. In a complete package comprising a safe small controller PNOZmulti 2 as FSoE-MainInstance with the safe radar system, you can easily implement this safety-related networking as a one-cable solution - with minimum wiring effort.

- [Further information on the safe radar system PSENradar](#)



Caption: The safe radar system PSENradar from Pilz is now suitable for new applications: The sensors PSEN rd1.2 sensor F-FOV and PSEN rd1.2 sensor F-FOV LR expand the options for configuring the fields of vision; the new PSEN rd1.x SD I/O FSoE analysing unit enables FSoE connection. (Photo: © Pilz GmbH & Co. KG)

You can find texts and images for downloading at:

<https://www.pilz.com/en-INT/company/press/messages/articles/240194>

Pilz - The Spirit of Safety

Pilz is a global supplier of products, systems and services for automation technology. As a pioneer of safe automation, Pilz creates safety for human, machine and environment. Founded in 1948, today the family business with its head office in Ostfildern is represented worldwide with 2500 employees in 42 subsidiaries and branches.

The technology leader offers complete automation solutions for Safety and Industrial Security on the machine. These include sensor, control and drive technology - as well as systems for industrial communication, diagnostics and visualisation. An international range of services with consulting, engineering and training completes the portfolio. Pilz solutions are used in many industries beyond mechanical engineering, such as intralogistics, packaging, railway technology, or the robotics sector for example.

Pilz in social networks

In our social media channels we give you background information concerning the company and the people at Pilz, and we report on current developments in Automation Technology.



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