

Press Message

Pilz at SPS IPC Drives 2016: Focus on safe robotics and smart factory - Safe answers for automation

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How can genuine human-robot collaboration (HRC) be implemented safely? And how do design engineers and users maintain an overview, particularly with modular and distributed plant and machinery? Visitors to the Pilz stand at SPS IPC Drives 2016 will receive specific answers to these questions. In Nuremberg the automation solution supplier will be exhibiting new products and services for safe robotics and for automation in the smart factory.

A modular plant design is the key to flexible, networked production in the spirit of Industrie 4.0. In Nuremberg, Pilz will use the Smart Factory Demonstrator, completely automated using Pilz solutions, to show how customised products can be manufactured in a way that's fast, flexible and cost-efficient.

Industrie 4.0: Safe, simple automation of modular plants

The modular production line illustrates how distributed automation systems communicate with sensor and actuator technology. The Industrie 4.0-compatible automation system PSS 4000 coordinates the sequence of all networked components – safety and automation, from engineering to visualisation.

1:0 to Pilz motion control: visitors to Nuremberg can take on the robotic table football team, which is fully automated using Pilz products. Interaction between sensor, control and drive technology results in perfect moves, characterised by maximum precision and performance.

Human and robot working hand in hand – even without safety fences

Visitors to the Pilz stand will discover how humans and robots can work together safely without the need for guards. On show will be a typical industrial robot application, which is safeguarded using Pilz products in accordance with the principle of power and force limitation, enabling genuine collaboration between man and machine. The application at the exhibition has been CE-certified by Pilz. Experts at the exhibition will explain the necessary steps. The new collision measuring device PROBmdf plays a key role. It measures the forces exerted on the human body in the case of a collision with the robot. Collision measurement is part of the complete range of Pilz services for validation in accordance with the new HRC standard ISO/TS 15066.

New service for energy management in accordance with ISO 50001

The issue of HRC is not the only service to be covered; the stand will also focus on energy management: Pilz provides companies with practical support for introducing a systematic energy management system, through to certification in accordance with ISO 50001. Experts from Pilz will demonstrate energy efficiency potentials and help to increase competitiveness. With a certified energy management system, companies can make a valuable contribution towards environmental and climate protection.

Innovations in sensor, control and actuator technology

In Nuremberg Pilz will be exhibiting a range of innovations from the fields of sensor, control and drive technology, along with the appropriate diagnostic and visualisation systems and software.

New Type 4 light grids

The new light grids PSENopt II enable safe access to the production process and provide finger and hand protection, depending on the requirement. Alongside the existing Type 3 light grids, PSENopt II are now also available as Type 4 devices. These are suitable for applications up to PL e of IEC/EN 61496-1/-2.

With their slimline design, the new light grids PSENopt slim are particularly suitable for use in applications where space is at a premium and in gate systems. In these cases the Type 2 and Type 4 light beam devices also provide finger and hand protection, depending on the requirement.

Safety Device Diagnostics: Enhanced diagnostics, greater availability

The coded safety switch PSENcode can now also be used in a compact design with Safety Device Diagnostics. This consists of sensors as well as a fieldbus module and junction, providing simple, extensive diagnostics for safety relays.

Configurable control systems PNOZmulti 2: Maximum flexibility

Up to 12 safe expansion modules can now be connected to the right-hand side of the base unit PNOZ m B1. An output module with 14 semiconductor outputs for non-safety-related standard applications is also available. This gives users maximum flexibility in controlling their safety functions, particularly on large projects.

New generation of remote I/O systems

With the new generation PSSUniversal 2, Pilz is continuing the success story of its universal remote I/O systems and control systems. The remote I/O system PSS u2 consists of the PROFINET communication module and a selection of I/O modules. Thanks to technical and mechanical improvements, users benefit from savings in time and costs.

Performance for demanding motion applications

The new motion control system PMCprimo MC offers high performance for demanding motion tasks as a stand-alone solution. The scalable motion control solution has numerous communication interfaces (e.g. Modbus TCP, CAN or Profibus DP-S) and so is a flexible solution for a wide range of application areas.

Close relationship for comprehensive visualisation

With its new visualisation solution PMlvisu, Pilz is committed to a particularly close relationship between hardware and software. PMlvisu consists of Pilz operator terminals PMI, on which the web-based visualisation solution PASvisu is pre-installed and licensed. Users of Pilz control solutions can use it to fully operate, diagnose and monitor plants.

Pilz preview 2017

At the exhibition in Nuremberg the automation company will provide a preview of the Pilz innovations for 2017: For example, it will be showing the prototype for a pressure sensitive safety mat for robot applications. This tactile sensor technology provides support with visualisation and positioning of persons and is a promising route for greater dynamics with HRC.

First Pilz is introducing a new range of E-STOP pushbuttons that can be activated electrically. These E-STOP pushbuttons use illumination to signal whether or not they are active.

In 2017 Pilz will also launch a laser scanner to scan detection zones. Thanks to series connection, the scanner enables productive area monitoring.

Pilz is exhibiting in Hall 9, Stand 370.



Caption:

You can find texts and images at www.pilz.com also for downloading.
To go directly to the relevant internet pages in the press centre,
enter the following **Web code** in the search of the
home page.: **89209**

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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