

Press Message

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Camera-based protection system PSEnvip 2: New Pilz function block for dynamic muting on press brakes - More dynamic bending

Ostfildern, 04.07.2023 - **For the camera-based protection system PSEnvip 2, for safeguarding press brakes, Pilz now offers a new, certified function block for dynamic muting. This allows the dynamic muting process on press brakes to be configured and implemented much more easily. So PSEnvip 2 speeds up the commissioning of such presses and enables processes in the forming technology sector to be more productive, as well as safe.**

As a complete solution with the Fast Analysis Unit (FAU) in the automation system PSS 4000, the [camera-based protection system PSEnvip 2](#) offers maximum safety for press brakes in accordance with EN ISO 12622 and is suitable for both new machinery and retrofits.

Automate muting, save time

The new function block for dynamic muting is available via the [automation system PSS 4000](#). In conjunction with the FAU module, it is possible to configure tool class, muting end point or protected field modes simply and quickly, for example.

Safety functions such as position, speed, braking ramp, overrun distances and protected field can be monitored. The new function block ensures that dynamic muting is initiated once the check is complete. As the effort involved in manual programming is no longer required, the press application is commissioned quickly and safely. That saves time and avoids subsequent costs.

More power for the press

With PSEnvip 2, foreign bodies in the optical protected field are detected immediately and the press operation is stopped safely – without compromising productivity. That’s because the solution allows operating speeds to be perfectly adapted, thus enabling higher cycle counts: due to the dynamic muting process, the speed of the upper tool can be continuously adapted via dynamic adaptation of the protected field. Only from the detection zone onwards is this reduced to the lowest level. In conjunction with user-friendly diagnostics, the safe, complete press-braking solution increases the availability and cost effectiveness of press applications in forming technology.

System for efficient bending processes

The complete solution comprising PSEnvip 2 and the Fast Analysis Unit in the automation system PSS 4000 from Pilz guarantees faster processing, and consequently an even faster shutdown of bending processes. In the automation system PSS 4000, the [PLC controllers PSSuniversal PLC](#) are used for this purpose: PSSuniversal PLC monitors all the safety-related functions and can also perform the press’s standard control functions. As a result, the solution package from Pilz achieves maximum productivity while being simple to handle, and ensures an efficient bending process.

Further information on PSEnvip can be found [here](#)



Caption: The new press brake block from Pilz greatly simplifies programming of the dynamic muting process for the camera-based protection system PSEnvip 2. (Photo: © Pilz GmbH & Co. KG)

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<https://www.pilz.com/en-INT/company/press/messages/articles/236263>

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.

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