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Press Message

IO-Link Safety Master for decentralised communication in the IO-Link Safety System from Pilz - Flexible all-rounder up to field level

Ostfildern, 02.10.2025 - **The rapid commissioning of modular, decentralised production plants is an important aspect of digitised industrial production. The IO-Link Safety Master PDP67 in the IO-Link Safety System from Pilz is now available for this purpose. It can be used for simple implementation of bidirectional communication up to field level. As a decentralised interface to the higher-level safety controller, it enables various connections, such as safety sensors with IO-Link Safety or even standard IO-Link sensors or actuators, for example. Users benefit from flexible, seamless and safe communication at field level, up to the highest category PLe / SIL3 – whether it's safety-related or standard communication.**

The IO-Link Safety Master from Pilz extends the functions of a conventional IO-Link Master by adding the option for safe communication for functional safety.

Modular plants
Four IO-Link Safety Ports (Class A) are available, plus an additional four ports, each with two configurable safe digital inputs or outputs. Sensors and actuators "share" the same connection, as needed. As a result, users can make their design more flexible, and also expand it. As a decentralised interface to the higher-level safety controller, the IO-Link Safety Master PDP67 can process IO-Link Safety and failsafe signals, as well as IO-Link and standard signals. Also, classic safety sensors – with OSSD outputs for example – or even actuators can be connected at field level. Modular plant concepts can therefore be implemented.
The cabling work is reduced thanks to plug-and-play via standardised M12 plug-in connections. The application can be easily configured and commissioned via the integrated web server, through which errors can also be diagnosed more quickly. This reduces commissioning time and minimises downtime at field level. As a result, decentralised systems run more reliably and more productively.

Robust and reliable Master in practically any location
Thanks to its robust protection type IP67 or IP69, the IO-Link Safety Master PDP67 can be used directly on the machine and/or in particularly rugged environments – up to 5000 metres above sea level and at temperatures from -30°C to +70°C. This means it provides reliable safety in industrial or outdoor environments, in dirt, fog or similar conditions. The entire input wiring to the control cabinet is replaced by connecting a sensor to IP67 I/O, thus reducing the wiring effort and saving vital space in the control cabinet. Plants are operational more quickly.

Pilz will offer a complete IO-Link Safety System for safe communication at field level: in addition to the Master, the system solution includes sensors, field devices and compatible accessories, as well as tools for configuration.

- Further information on the product is available here

Caption: *In the IO-Link Safety System from Pilz, the IO-Link Safety Master PDP67 - as a decentralised interface to the higher-level safety control system - enables the rapid commissioning of modular and decentralised production plants. (Photo: © Pilz GmbH & Co. KG)*

You can find texts and images for downloading at:
https://www.pilz.com/en-INT/company/press/messages/articles/242959

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.

 https://www.facebook.com/pilzINT

 https://www.youtube.com/user/PilzINT

 https://www.linkedin.com/company/pilz

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