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Press Message

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Configurable small controller PNOZmulti 2 with new expansion module for drive monitoring - Monitor axes safely and efficiently

Ostfildern, 22.07.2021 - **The new motion monitoring module PNOZ m EF 1MM2DO from the configurable small controller PNOZmulti 2 now also offers cascading and delayed shutdown functions in the field of safe motion monitoring. By monitoring up to eight safety functions on one axis, the new motion monitoring module provides efficient drive applications, thereby protecting both capital goods and the machine.**

In conjunction with the base unit PNOZ m B0 or PNOZ m B1, PNOZ m EF 1MM2DO monitors an axis safely up to the highest category PL e of EN ISO 13849-1 or up to SIL CL 3 of EN IEC 62061. The module covers up to eight safe monitoring functions on one axis, e.g. safe stop, safe operating stop or safe speed limiting.

Safe linking of events

In addition to the two safe semiconductor outputs the new motion monitoring module also has a cascading input and output. Should the whole system switch to a stop state, integrated cascading enables you to configure a delayed shutdown and to link to other modules. Advantage: Should one module shut down, then all the linked modules will also be shut down via cascading. As a result of this controlled shutdown, capital goods and machinery are protected equally, flexibly and fully, guaranteeing high availability for the machine.

Axis safety = production safety

All motion events that can be set up via the new module are configured in the [software tool PNOZmulti Configurator](#) (from Version 10.13): An independent module program (mIQ), which controls the safe digital outputs directly, is created for each motion monitoring module. Direct control enables a fast reaction time, with the outputs shut down in under 12 ms. This means that if any set limit values are exceeded, if the maximum speed is exceeded for example, then this is reported immediately. In the event of an error or if any protected areas or detection zones are violated, a safe and reliable reaction is triggered. The fast reaction time protects human and machine against consequential damage from the event.

Open for different motion scenarios

Via the industrial, extremely stable Mini I/O interface from the motion monitoring module, all common incremental encoders can be connected using drive-specific connection cables. So safe, efficient axis monitoring can be retrofitted simply and flexibly, even for existing plant and machinery.

Further information on the product is available [here](#)



Caption: The new motion monitoring module PNOZ m EF 1MM2DO for the configurable small controller PNOZmulti 2 from Pilz uses the cascading and delayed shutdown functions to protect capital goods, machines and workers in the drive area. (Photo: Pilz GmbH & Co.KG)

You can find texts and images for downloading at:

<https://www.pilz.com/en-INT/company/press/messages/articles/228093>

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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