

PRODUCT NEWS

New servo amplifier is ready for extra safety functions

Pilz Automation Technology is now offering a new servo amplifier, the PMCprotego D, that not only benefits from a safe stop function, but is also ready to accept new modules that will enable its safety capability to be expanded considerably.



Similar in many ways to the existing PMCtendo servo amplifier (which will remain available alongside the new product), the PMCprotego features a slot to accept safety cards when these are launched in early 2009. These cards will provide for functions such as safe reduced speed, safe operational stop and safe standstill. Meanwhile, the PMCprotego D comes with a safe stop function in accordance with EN/IEC 62061 SIL2 (safety integrity level 2) or EN ISO 13849-1 PL d (performance level d), as well as safety category 3 of the outgoing EN 954-1.

Another useful feature of the PMCprotego D is the MMC media card on which the configuration parameters are stored. For series machines, the MMC cards can be readily 'cloned' and simply slotted into the servo amplifiers. In addition, upgrades can be performed by exchanging an existing card for another with a new configuration, and damaged amplifiers can be replaced and the full configuration loaded into the new unit simply by inserting the card.

Several models of PMCprotego D are already available, with larger versions due for launch soon. Customers can select from amplifiers with rated currents of 1.5, 3, 6, 12 and 24A and

corresponding peak currents of 4.5, 9, 18, 24 and 48A. All models can operate from any AC voltage from 208-480V and they feature integral mains filters.

A maximum of 200 motion tasks can be programmed and the position control cycle time is 125us. As well as the master encoder input, each amplifier is equipped with four digital inputs, two analogue inputs and two digital inputs/outputs. I/O expansion cards enable the number of inputs and outputs to be increased if required. CANopen and Ethernet TCP/IP interfaces are provided, with other options being Profibus-DP-S, Sercos and DeviceNet.

Customers can utilise the PMCprotego D in safety-related control systems with a safe reduced speed function. This can be achieved either by using conventional speed monitors and safety relays, or with a PNOZmulti configurable controller with a speed monitoring module. In both cases, the safe output from the monitoring system is used as a safe input to the PMCprotego D so that, should the speed exceed the predefined safe limit, the amplifier enters its safe stop mode.

The PMCprotego D is programmed using the free PMCTools suite of programs. This includes PTerm (a terminal emulator), PEdit (a text editor), PScope (a software-based oscilloscope), PMotion (a motion programming tool) and PDrive (an amplifier and motor parameter configuration tool).

Please contact Pilz to request more information about the PMCprotego D servo amplifier by emailing sales@pilz.co.uk or visit www.pilz.co.uk.

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Contact Points for Publication

Pilz Automation Technology

Telephone: 01536 460766

Fax: 01536 460866

E-mail: sales@pilz.co.uk

Website: www.pilz.co.uk

Note to editors

Pilz Automation Technology develops, manufactures and supplies process and automation control products for use wherever there is a requirement to ensure the safety of plant, personnel or the environment. Included in the range are: safety relays; configurable safety controllers; programmable safety systems (safety PLCs) for use with or without the SafetyBUS p safe, open industrial fieldbus network; mechanically actuated and non-contact guard switches; safety light curtains; 2D and 3D vision-based safety sensors; emergency stop switches; conventional and touchscreen operator interfaces; plus control and monitoring relays for non-safety applications.

In addition, Pilz provides safety-related services, such as training, engineering, consultancy and competence management. For 20 years Pilz has taken a leading role in educating the market with regard to safety legislation. This has been through seminars on legislation, software packages that assist with standards compliance and product selection, and publications. Pilz has produced six editions of the *Guide to Machinery Safety*, a *Guide to Programmable Safety Systems*, and publishes a free monthly email newsletter

Pilz Automation Technology is a wholly owned subsidiary of Pilz GmbH & Co KG, a family-owned German company with global operations. Since its foundation in 1948, Pilz has remained at the forefront of safety technology, launching the first safety relay the first programmable safety system, the first safe, open fieldbus system (SafetyBUS p), the first solid-state safety 'relay', the first software-configurable modular safety controller, and the first safe camera system for monitoring three-dimensional zones. Future developments will see safety technology being integrated more closely with standard control, such as in servo drives with safety functionality.

Editors should contact Pilz if they would prefer to receive future press releases electronically or by post.

Issued by:

Vanessa Smith
Pilz Automation Technology
Willow House
Medlicott Close
Corby
Northamptonshire
NN18 9NF

Tel: 01536 462202
Fax: 01536 460866
E-mail: v.smith@pilz.co.uk