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safe automation

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PRODUCT NEWS

New module enables safety controller to accept analogue inputs

A new addition to the Pilz PNOZmulti modular safety controller range accepts two analogue voltage or current signals, typically in a dual redundant configuration.



Pilz is launching a new analogue input module for the PNOZmulti modular safety controller. Up to four of these PNOZ ma1p modules can be mounted on the left-hand side of a PNOZ m1p or PNOZ m2p base unit, and each module can accept two analogue inputs. Depending on the configuration of the hardware and safety logic, the module meets the requirements of EN IEC 62061 SIL2 or SIL3, as well as performance level (PL) e of EN ISO 13849-1.

A wide range of analogue sensors can be used with the new module - typically in a dual redundant configuration - such as encoders, temperature sensors, pressure sensors or position/level sensors. The PNOZmulti controller can then monitor for range limits or a maximum of eight threshold levels per input. Reaction time is just 75ms.

Status is indicated via LEDs on the front of the analogue input module and, if installed, via the PVIS 'intelligent diagnostics' system and a Pilz PMImicro diag display. In addition, the

actual analogue values can be transmitted via a PNOZmulti fieldbus module. Errors are stored in the error stack within the PNOZmulti base unit.

Virtually any safety-related application requiring monitoring of an analogue value can benefit from the new analogue input module, as it accepts a +/-10V or 0-20mA signal. Compared with the traditional technique of using a separate unit external to the controller to set a level on an analogue signal (for example, by means of an analogue-to-digital converter), the new module offers greater simplicity, a lower risk of errors, and a reduced requirement for engineering time - all of which is likely to result in cost savings. Furthermore, if adjustments are ever necessary, these can be readily achieved using the intuitive drag-and-drop PNOZmulti Configurator software tool.

Note that use of the analogue input module requires firmware version 5.5 on the PNOZm1p base unit or version 2.5 on the PNOZ m2p. Version 5.3 of the Configurator is also required.

The new analogue module is due to be available in February 2008.

Please contact Pilz to request more information about the PNOZ ma1p analogue input module 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