

► Frequently Asked Questions—myPNOZ

myPNOZ

Q. Are the plug-in terminals of myPNOZ identical to the plug-in terminals of PNOZsigma?

A. Yes

Type	Size	Product Code
Cage	12.5mm	751002
Cage	17.5mm	751003
Screw	12.5mm	750002
Screw	17.5mm	750003

Q. How many modules can be set in series?

A. One headmodule with a maximum of eight extension modules.

Q. How many input modules can be strung together?

A. Any number of input modules per function group can be strung together (requirement: total system max. 8 extension modules and the last module must contain an output).

Q. How many output modules can be strung together?

A. Any number of output modules per function group can be strung together (requirement: total system max. 8 extension modules).

Q. Must the reset/start inputs and the feedback loop inputs always be connected?

A. Yes. If you do not use this functionality, you must set the corresponding inputs to +24V level.

Q. Is it possible to attach other modules to the left of the head module?

A. No. On the left side of the head module it's not possible to establish a connection to other modules.



Q. Can a single module within a system be replaced?

A. Yes. After the terminal plugs on the affected module and on the left neighbour module have been disconnected and the locking of the mounting rail has been released, the module can be pulled straight upwards out of the com-

► **You create** - you choose the required safety functions, and myPNOZ Creator puts the ideal hardware together. You can check your configuration with the simulation function. If everything fits, your myPNOZ is ordered with just a few quick clicks.

► **We build** - Each myPNOZ is tailor-made and pre-assembled according to your individual configuration. We also set the parameters to suit your specifications, e.g. with regard to the start type or time delay for you. Your modular relay will be sent to you following a system test.

► **You install** - You'll receive your ready-to-use myPNOZ 'ready for Plug and Play'. No software is required for commissioning. And the time and effort required for wiring has also been significantly reduced.



pound. The new module can be inserted into the guide rails of the neighbouring modules and then pushed onto the mounting rail until it stops. Then the new module has to be set up with the settings of the replaced module (start mode, time delay). Afterwards the terminal plugs can be plugged in again and the system can be operated again.

- Q.** What are the rotary switches on the module front for?
- A.** The rotary switches are used, depending on the module, to set the signal type and start function of the input function or the delay time of the output function.
- Q.** How do I configure a system on the modules?
- A.** First the modules are placed in the desired or required sequence. Then the input and output functions are selected by setting the rotary switches. Then the system must be taught-in on the head module. To do this, the operating mode rotary switch on the head module is set to the "conf" (for configuration) position for 5 seconds. The system is then ready for operation in the current version.
- Q.** Is a terminating resistor or plug required on the module bus?
- A.** No. No bus termination is required. It is also irrelevant whether a bus connector is available on the last module on the right side or not.

- Q.** What must be observed when setting up a device combination?
- A.** A maximum of 8 expansion modules may be mounted on only one head module and the last module must contain an output.
- Q.** Is it possible to create an OR combination of 2 modules?
- A.** Yes. For this purpose, the outputs of the desired modules must be connected to the inputs of the OR module. But this cannot be done in myPNOZ Creator.
- Q.** Must unused inputs be wired?
- A.** Yes. Unused inputs must be supplied with +24V potential and the corresponding rotary switch must be set to "OSSD Automatic".
- Q.** What do I do if I don't know the time setting of my output when I order?
- A.** The time setting of the delayed outputs can be adjusted at the potentiometers "t[s]" and "n".
- For this purpose, set a time selection at the potentiometer "t[s]" and a multiplication factor at the potentiometer "n". The kind of delay is also selected via the potentiometer "n". The head module must then learn the changed configuration. For this purpose the operation mode rotary switch must be set to "conf" for 5 seconds and after completion of the teach-in process (indicated by LED) back to run. After that the system is ready for operation in with current configuration.
- Q.** Can I adjust my device if something has changed in my application since I ordered it?
- A.** Yes. All settings pre-adjusted when ordering can be changed at any time and saved as a new configuration.
- Q.** Can antivalent input signals be used?
- A.** No. Currently it is not possible to connect the inputs with antivalent signals.
- Q.** How long is the cycle time with different modules?
- A.** The cycle time depends on the number of extension modules.

Q. Can I also use an input function that is not explicitly listed in the myPNOZ Creator?

A. Yes. The input functions shown in the myPNOZ creator are intended as an aid. For wear-afflicted two-channel sensors and sensors with OSSD outputs that are not explicitly specified, the function "unspecified" can be selected. But the respective sensors must comply with the corresponding specifications of the inputs in the technical data.

Q. Can inputs be used as single-channel?

A. Yes. Set the start mode potentiometer (mode) to "24V" to switch off the pulse monitoring. Place the single-channel signal on one channel of the input function and connect both channels of the input function by a wire bridge. Attention: Single-channel use of the inputs reduces the safety level of the input function.

Q. What happens if settings on a module are changed during CONF mode?

A. The CONF mode restarts after each change to the configuration. I.e. as long as a change is made during the 5 seconds configuration time, the time is restarted. Only after the configuration time has expired the current settings are stored.

Q. What is a zone?

A. With myPNOZ it is possible to create independent logical function groups.

This is achieved by the modular structure of the myPNOZ system, which allows a free selectable sequence of the different extension modules. So, you can build one or more different logical functions.

Each of these logical functions is called a zone.

If an output module (O) is followed by an input module (I) or an input/output module (I/O), a new zone begins. The zones work functionally independent of each other.

The input (global input function e.g. emergency stop) of the head module (H) acts on the outputs (O) of all zones.

Q. How can I use the two-hand switch to enable the outputs?

A. Only after all required conditions of all other input functions of the zone in which the two-hand modules are used have been met and started can the two-hand control elements for triggering dangerous functions by simultaneous (<500ms) actuation generate the release of the outputs. The two-hand control elements of the two-hand modules must be operated again after the release of the outputs has been switched off.

Q. It is possible to use more than one two-hand switches in one zone?

A. Yes. Any number of two-hand modules per function group can be strung together (requirement: total system max. 8 extension modules and the last module must contain an output).

Q. Will the mechanics be tight enough that it doesn't disassemble during transport ?

A. Yes. The mechanics has been designed in a way that it will not disassemble during transport

Q. Will we have a communication link at the head module ?

A. Yes, in a second stage of the project. Actually we are defining what protocol would be suitable (e.g. IO-Link)

Q. Do we have monitoring semiconductor outputs (auxiliary outputs)?

A. Yes, on every output module is also a semiconductor output monitoring the status of the safe output(s). Remark: we do not monitor the inputs, because this would demand additional terminals and thus space

Q. Do we have Eplan macros?

A. Yes. We have already all module macros implemented in the Eplan Data Portal. We are also working very closely with Eplan to develop a new type of configurator in the Eplan eBuild tool. With this configurator it would be possible to load a file created with the myPNOZ Creator from a finished system setup into Eplan configurator and then get a complete combined macro of this configuration with all settings at the push of a button.