special devices NVG 300

features

The NVG 300 is the basis for a large number of customer-specific special solutions. Due to our own electronic development in the hardware as well as in the software area we are able to adapt the device exactly to your serial application.
At the moment we have 2 hardware versions available. Due to our modular system, we can also carry out extensions and adaptations.

We use a Phoenix housing. We have it in black on stock but other colours are also possible.
Custom labeling is not a problem. Alternatively, we have implemented an application with a stainless steel housing and fully encapsulated electronics for heavy duty field use. There are of course other housing possible..

Take advantage of our technical office and field service for an initial discussion. If you have specific questions, you can also speak directly to the developers at our company.

technical specifications

housing	width 22,5mm clamps removable, can be snapped onto the DIN rail	
	stainless steel housing with M12 plug, depending on version or permanently connected cable degree of protection IP67, electronics fully encapsulated on request, then protection class IP69K	
power supply	24VDC	
inputs	version 1	3 x digital inputs 24VDC
	version 2	1 x conductive for rod probe incl. ground, 2 x digital 24VDC
outputs	2 x relay changeover contact potential-free	
components front	1 x Poti 270° for settings such as time delay, sensitivity or similar 2 x LED with all options such as flashing, status display	

example photo

NVG 300, special design with two potentiometers

order code NVG 300...

power supply

-3	24VDC

design hardware

- HW1	hardware version 1
- HW2	hardware version 2

design housing

- 1	housing can be snapped onto the DIN rail
- 2	field housing

customized version with consecutive number

Determined by the development department or production in consultation with the customer.

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applications that we have already realized . . .

conductive leakage monitoring with reset by a service technician

Our level rod probes NST 255 and NVG 300 in customer-specific design are used.
The level sensor NST 255 is used without active electronics. Conductive evaluation takes place directly in the NVG 300.
In case of a leakage in the pump shaft, an alarm in the form of a horn is switched on relay 1. An alarm in the form of a flashing light is switched on relay 2. After the adjustable time via the poti, Alarm 1 is switched off again due to the noise nuisance. The alarm on relay 2 remains active. Even if the pump shaft falls dry again, alarm 2 cannot be reset. A service technician is informed.
The user then has the option of resetting Alarm 1 and thus the entire device via a key switch.

leakage monitoring with cleaning monitoring

2 floor sensors NGS 260 and the NVG 300 in customer-specific design are used. Floor sensors 1 and 2 monitor the leakage of viscous media at 2 points. If the cleaning is started, the monitoring gets a contact from the water valve and the alarm of the leakage monitoring is switched off. A time can be set via the poti. If the floor sensors are not released again within the specified time, an alarm is triggered even if the valve is open.

leakage monitoring for upgrading existing systems

Different level probes or level switches are used. No matter which system is available on site or used in new installations (PNP output, conductive probe without active electronics), the NVG 300 can evaluate all of them and provide the desired functionality at the relay outputs.

Filling control of a container with feedback valve

2 level rod probes NST 150 with the NA2 module and the NVG 300 in customer-specific design are used. In a mobile system, a container should be regularly refilled as soon as the level falls below the lower level. The container is then filled up to the upper switching point. The filling process should only take place when the valve is closed. For this purpose, the feedback valve is monitored by a control input. Relay 1 switch the pump and relay 2 gives the error message Filling process expected and valve still open.

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