Sealing Air Follow-Up Control SNS2

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Congratulations for your purchase of a product from the company BMR GmbH.
We thank you that you made you decision for a BMR equipment.

⇨ ***Please read these instructions carefully before you use it for the first time!***

Content

2. Functional Description

This enables the Air purge of a spindle to run, even in the emergency stop state from a manufacturing center.
All internal functions such as battery, pressure monitoring and timing are controlled by a microprocessor.

In addition, all operating states of LEDs are signaled and the potential failure modes issued via a relay (NO / NC) .
Error states can be either lower blocking air pressure or a dead or a defective battery.

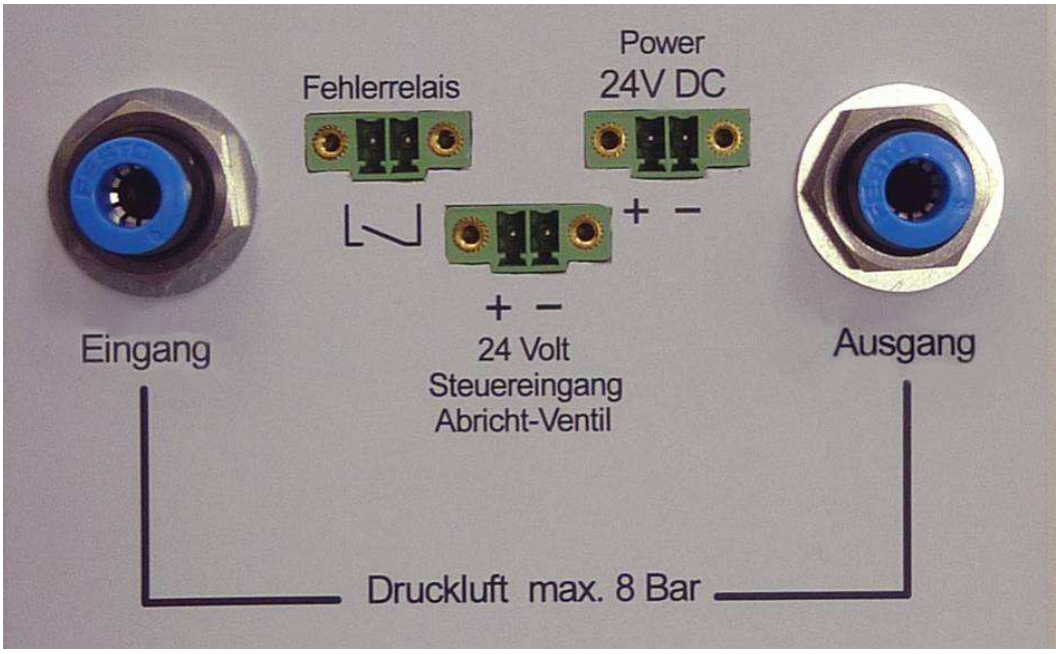
To activate the device +24 V must be applied to the terminal.
In case of a failure or disconnection of the +24 V supply voltage, it will automatically switch to a built-in rechargeable battery, and it will work as long as the set delay time of the circuit has elapsed. Thereafter, the integrated solenoid valve switches the air lock and the device turns off.

With an integrated pressure regulator the pressure of the issued sealing air can be adjusted. This pressure is monitored internally and outputs at levels below 0.5 bar an error message will be created.
In addition, the pressure regulator can be bypassed with a solenoid valve to ensure the full supply pressure and to turn on the output line. For this purpose the control voltage terminals are connected to the terminal Dressing Valve.

For the inlet pressure there must be at least 3 bar applied to ensure reliable switching of the valves.

An internal charging circuit evaluates and charges the battery as long as the +24 V is applied.
A low battery voltage or a defective battery will be signaled.

2. Piping and electrical connections



- Compressed air connections:
With the 6mm plug connections, the device is integrated into the compressed air system.

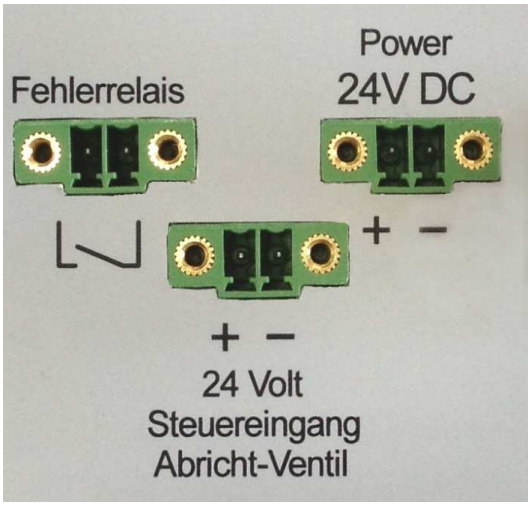
Input
As inlet pressure at least 3 bar must be applied to ensure a reliable switching of the valves and it should not exceed 8 bar.

output
When +24 V are applied, the internal solenoid valve is activated and the compressed air is turned on. The outlet pressure can be adjusted via the built-in pressure regulator**.**

As soon as the outlet pressure is below 0.5 bar, an error is signaled.

Only in operation the compressed air is issued until the end of the follow-up time.

- Electrical connections:



Power 24V DC
As soon as the +24 V are applied, the internal solenoid valve will be switched on and the charging circuit for the battery will be activated.

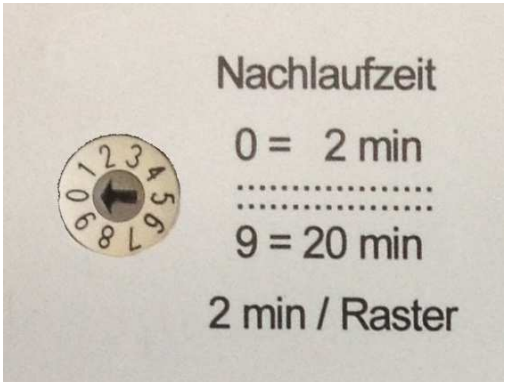
Power Consumption: 24VDC / 7W

Fault relay
In case a battery fault, low battery voltage (U bat <10.6 V) or if output pressure falls below the minimum (0.5 bar), the relay contact will be connected.

Switching power: 30VDC / 1A, 125VAC / 0.5A, 60VDC / 0,3 A

Control input Dressing valve
Once here the +24 V is applied, a second internal solenoid valve will be turned on and bridge the set with the pressure regulator pressure branch.

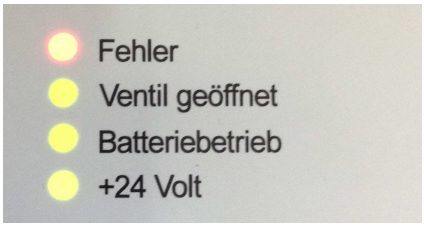
1. **Setting the stopping time**



Die follower control time can be set in 10 stepps of 2 to 20 Minuten in 2-minutes stepps:

0 = 2 minutes,
1 = 4 minutes,
…
9 = 20 minutes

2. -LED´s



During the operation and as long as the delay time has not expired, the LEDs indicate the current operating status

error

If the output pressure drops below 0.5 bar:
This can either be with an excessively low inlet pressure or by a leak in the hose of the engine.

It's blinking slowly along with the LED battery operation if the internal battery has too less of voltage.

It's blinking slowly along with the LED battery operation if the internal battery is defective.

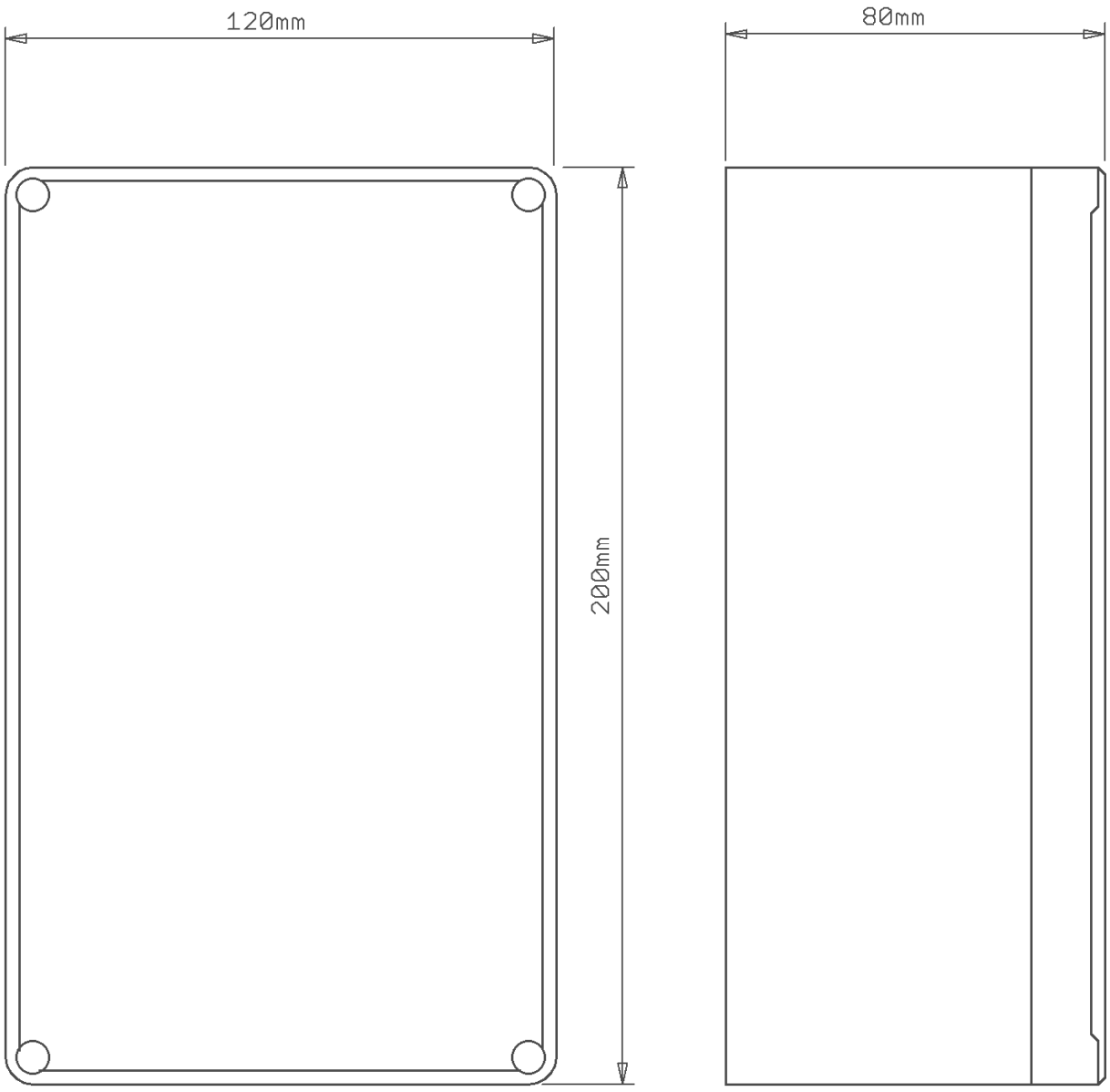
In case an additional error occurs when pressure is present, this LED is permanently on and the LED battery flashes

open valve:
On: valve open and operating on +24 V
It's blinking: valve open and operating on battery.
The recovery time is running out.

battery operation:
On: There is no more +24 V to the unit.
Flashes: And Fault LED => battery fault

+24 V lights when power is applied to the device.

dimensions and installation instructions:



According to standard a retaining clip for C-rail mounting according to standard is located on the back. As an option, mounting bracket for wall mounting are available. There are 4 pieces required and bolted to the back.

Mounting dimensions:
188mm / 88mm + 2 x 13mm oder 188 + 2x 13mm / 88mm

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- Subject to technical alterations -