

Option Fail-Safe-Accu NLGS1-24V incl. power cut-off

Option fail-safe-accu:

In case of missing power supply the rotary actuator gets driven into a choosable final position.

The accu is connected via a plug to the connection terminals B + and B-. The battery plug is to insert only after setting the DC controller. The terminals + 24V and GND supply the drive with power, the LED lights up (VCC OK). If necessary, the battery is charging in this mode. From time to time, the switch checks the battery current. If it should weaken heavily, this behavior indicates a fault. A defective battery is indicated by the LED display (BattLow) and the fail safe relay (PowerFail) moves.

If the supply voltage to the terminals + 24V and GND gets lost, the actuator drives in the direction set by the jumper (BattDrive) until it reaches the final position. At the same time the relay (PowerFail) attracts and the corresponding LED lights up.

When the power supply is restored, the system switches back to normal operation.

The power supply has to be between 22,0V and 25,0V, so the accu can fully be loaded..

The accu should be changed at latest after 2 years.

Wrong polarity or wrong connection may destroy the emergency position function.

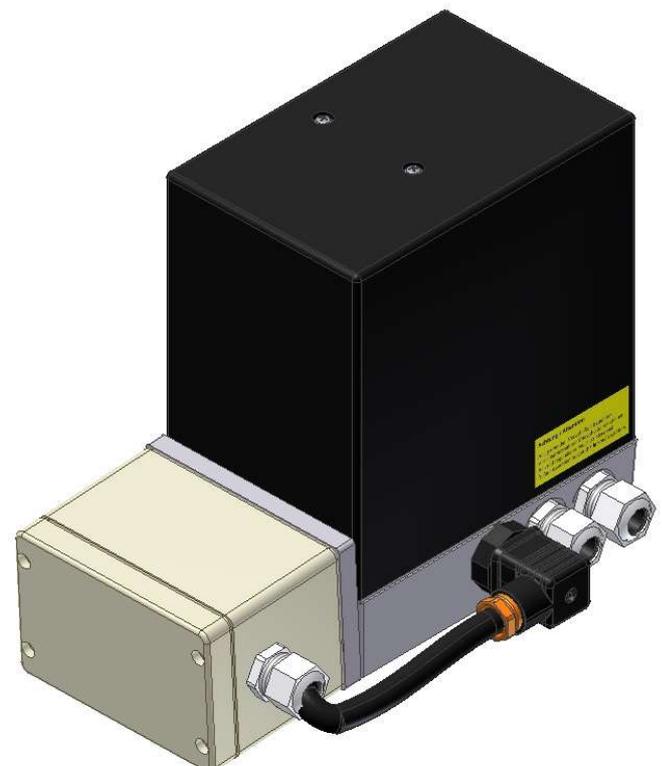
Technical data:

Current area: 22V..25V

Accu capacity 0,8Ah

Accu current 24V DC nom.

Control input: 24V DC



General:

- The power cut-off NLGS1-24V offers the following features:
- Power cut-off and change of regulating time
- Soft start and short stop times
- Single pole reversion
- Button for drive in left/right direction

Normal operation:

The drive gets supplied with power via the terminals + 24V and GND, the LED lights up (VCC OK). The actuator can be driven manually in the left or right direction by using the buttons "ML" and "MR". The control inputs 2 (LL) and 3 (LR) automatically offer this possibility.

The potentiometer (I) can be used to adjust a current limit in the range from 0 to 2A. When exceeding the current limit (e.g. overload), the drive will stop and attracts the fail safe relay (MotorErr). The switch-off of the motor and the fault message remain as long as the supply voltage gets interrupted for approx. 1 s or will be reversed.

The motor voltage and hence the speed of the motor or resp. of the drive can be changed with the potentiometers "I" and "U".

The "U" potentiometer on the PC board has been set in the factory and should only be changed upon approval.

The limit switches SL and SR plug in the end positions. At the terminals SL/4 and SR/5 is 24VDC supply voltage in the end positions, that can be used with a maximum load of 20 mA as external position indicators.

Control board
(built-in the actuator)

