

Produktübersicht Motor-/ Ventilsteuergeräte

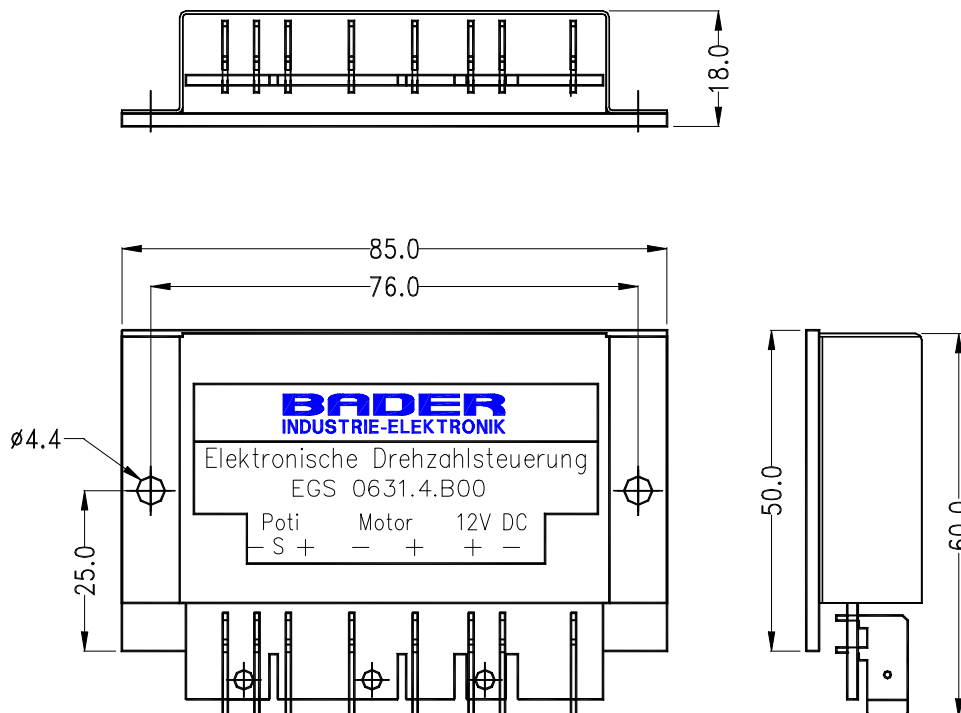
EGS 631.4.B00

The electronic blower control „EGS“ is used to control the speed of fans as a function of an input . The input voltage can be realizable as DC voltage or as pulse width modulated voltage.

Alternatively, a potentiometer can be connected for speed adjustment. Up to 5 EGS can be operated with one setpoint potentiometer. However, each EGS must be separately fused with 25A. The module has a status output which displays a short-circuit, open motor connection or a blocking of the motor.

Nominal voltage:	12V DC
Voltage range:	10V to 16V DC
Nominal current:	23A
Power consumption without load:	50mA (with stationary blower)
Set-point potentiometer:	10kΩ linear
Input voltage:	12 to 0V, 12V equals to standstill, 0V equals to max. speed
Status output:	Status ok: approx. 0,5V, Error: Ubatt-0,7V, Strom max. 0,5mA
Storage temperature:	-40°C to +105°C
Operating temperature:	-40°C to + 85°C
Connections:	7 AMP-Flat plug 6,3 x 0,8mm
Weight:	appr. 120g

Installation dimensions [mm]:



As of August 2020

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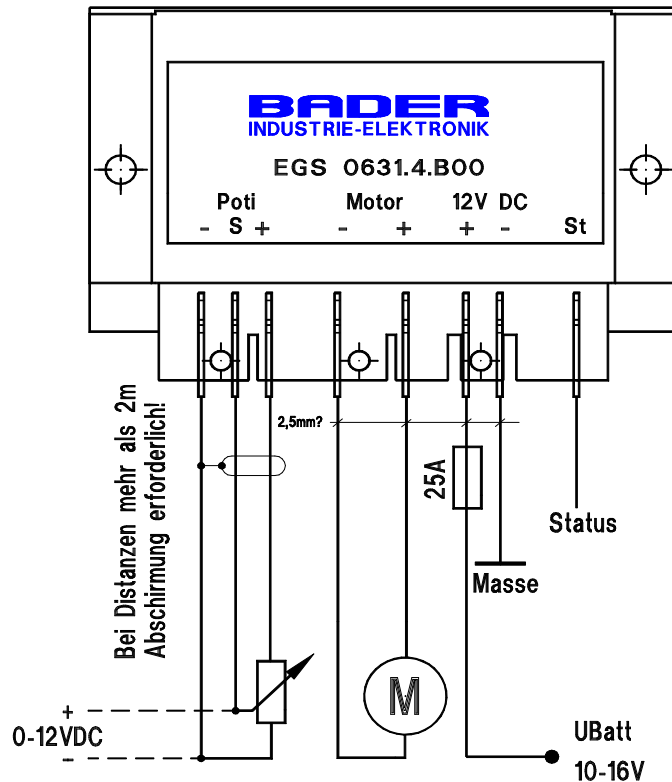
Elektroniksysteme für Fahrzeugtechnik und Industrieautomation
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Registered at the local court: Stuttgart HRB 205971. Managing director: Florian Bader

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Anschlussplan:



Function

After applying the supply voltage, the device status is checked for approx. 3 seconds and then the blower is run up to the specified speed.

When the fan is at standstill, the setpoint is approached via a short speed increase. This is intended to cause a „tear-away effect“ if the fan bearing is stiff.

The reference speed can be set by

- a 10 kOhm setpoint potentiometer,
 - a variable DC voltage between U_{Batt} and 0 Volt, where 0 Volt is the highest engine speed,
 - a pulse width modulated voltage. The EGS calculates a DC voltage average value from this.
- Here, the motor speed is controlled by the pulse width. The narrower the pulse, the higher the fan speed.

During operation it is continuously checked whether the output is short circuited. In addition, a protected procedure is used to determine whether the motor is blocked.

In both error cases the output is switched off and the status output is set.

If the supply voltage is too low, the EGS goes into a standby state and switches off the fan. The status output is set.

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