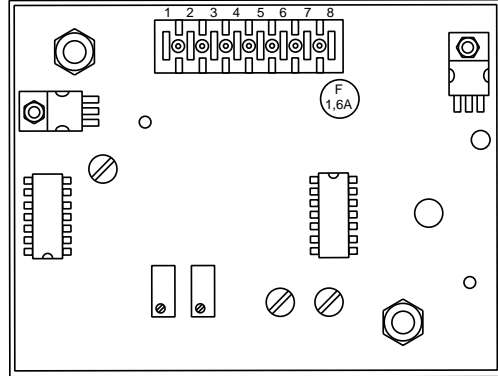


### DESCRIPTION

The SAUER-SUNDSTRAND MCE127A1000 Proportional Amplifier is used to drive SAUER-SUNDSTRAND hydrostatic transmissions equipped with proportional magnets.

This MCE127A1000 Proportional Amplifier is equipped with a single output.



### FEATURES

- Current sense PWM drive
- Reverse polarity and short circuit protected
- 12V<sub>DC</sub> or 24V<sub>DC</sub> supply voltage
- Withstands vibration and shock

### ORDERING INFORMATION

Amplifier	Supply voltage	Id. No.
MCE127A1000	12V <sub>DC</sub> or 24V <sub>DC</sub>	501453

### TECHNICAL DATA

**SUPPLY VOLTAGE**  
10V<sub>DC</sub> to 35V<sub>DC</sub>, reverse polarity protected

**OPERATING FREQUENCY**  
appr. 100Hz (adjustable 80 - 200Hz)

**POWER LOAD**  
MIN: appr. 40mA  
MAX: 1,6A

**SWITCHING OUTPUT**  
Current source  
Voltage and temperature compensated  
Short circuit protected

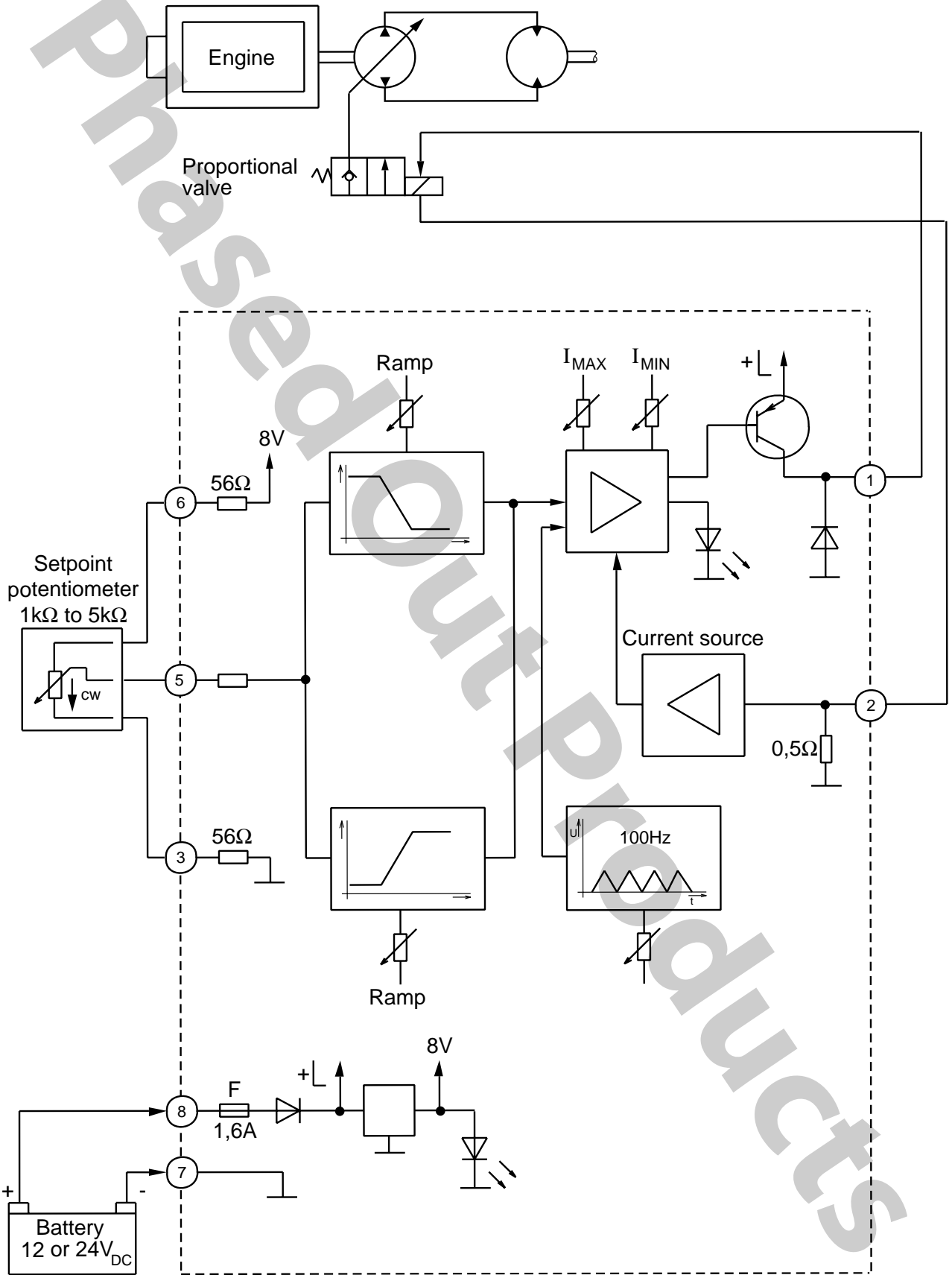
**I<sub>MIN</sub> ADJUSTABLE**  
0 to 600mA

**INDICATIONS**  
1 LED red: power supply  
1 LED green: valve power

**I<sub>MAX</sub> ADJUSTABLE**  
I<sub>MIN</sub> to 1500mA

**RAMP TIME**  
independent adjustable 0,5 to 10s

**BLOCK DIAGRAM: unidirectional**



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## THEORY OF OPERATION

The MCE127A1000 Proportional Amplifier allows the independent adjustment of the minimum output current  $I_{MIN}$  and the maximum output current  $I_{MAX}$ .

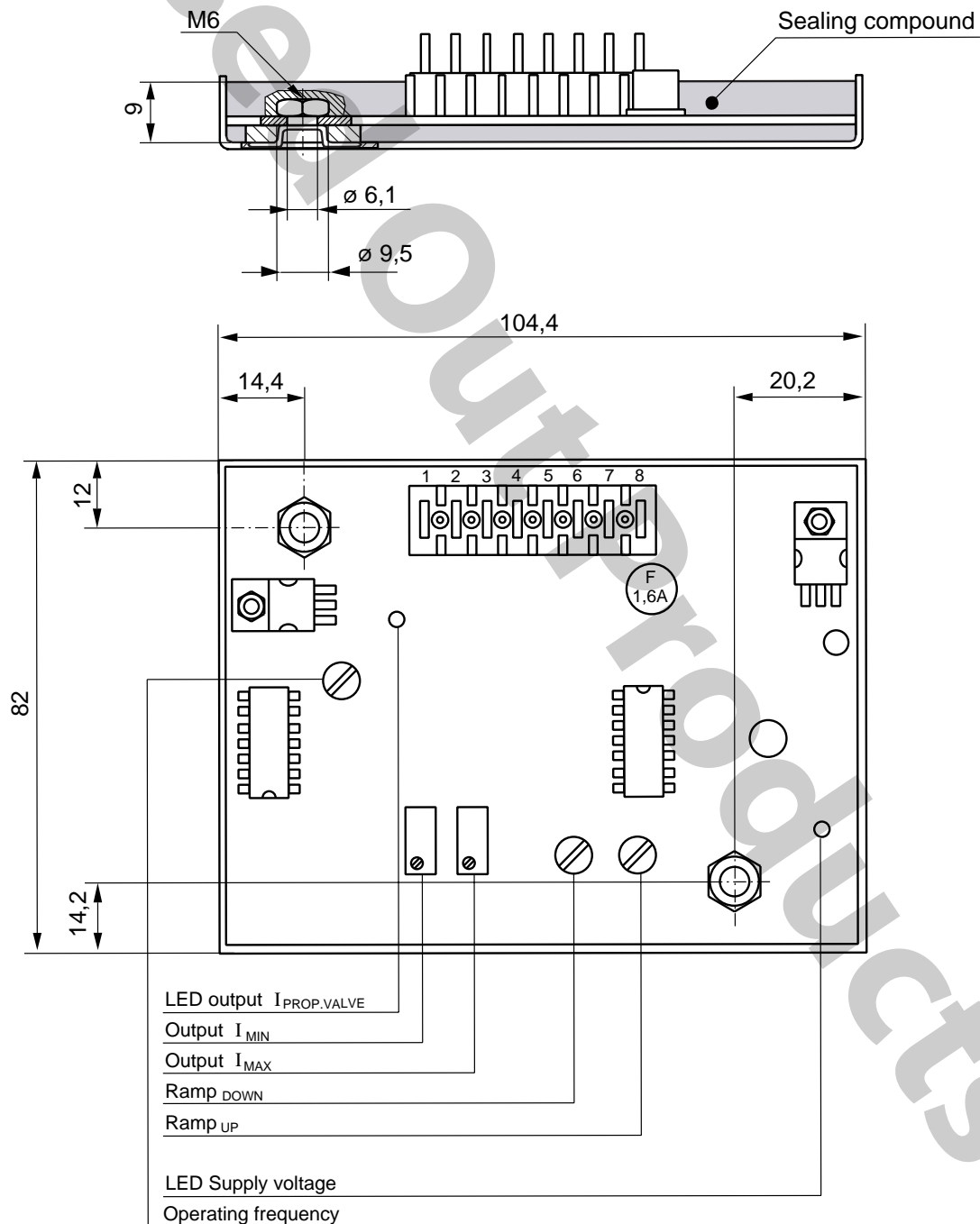
The ramp time  $t_{UP}$  and  $t_{DOWN}$  are adjustable independently also.

The external setpoint potentiometer sets the output current.

The operation frequency (standard 100Hz) is adjustable to tune the amplifier for a special valve.

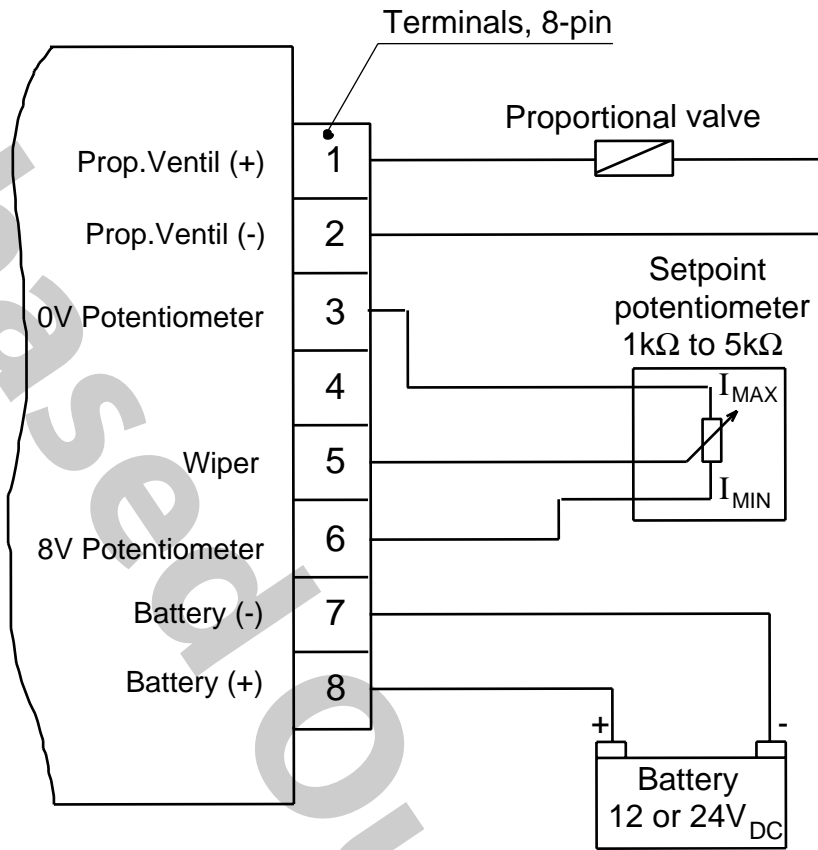
Two diagnostic LEDs show the presence of power supply and the status of the output stage.

## DIMENSIONS



S00927

### CONNECTION DIAGRAM: Proportional input



### CONNECTION DIAGRAM: Switch input

