

LKH

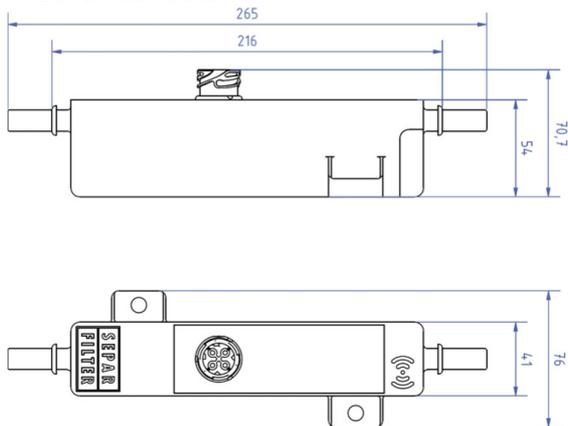
Fuel heater



Quick guide

The LKH fuel heater is designed exclusively for heating light diesel fuels. It is installed in the supply line of the fuel circuit.

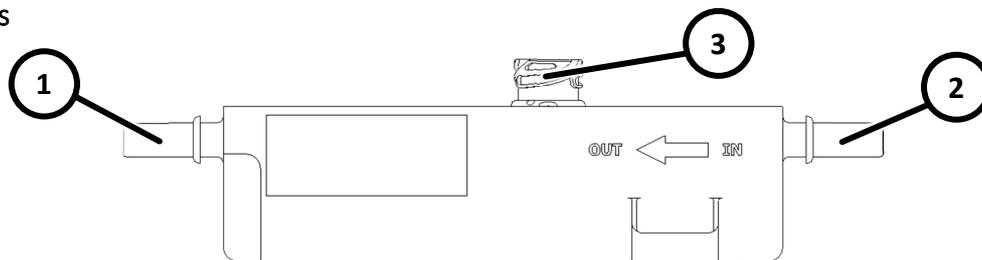
Mechanical data



Technical data

Mass:	< 0,8 kg
Ambient temperature range:	-40 °C ... 80 °C
Fixing points:	2
Diameter:	8,5 mm
Screw length:	> 15 mm
Tightening torque:	3 Nm +/- 0,5 Nm
Media connectors:	2
Quick connector:	12 mm according SAE J2044
Electrical connector:	
Flange plug:	Lear VKS Plus Type 3, 4 pins
Supply voltage:	12 ... 24 VDC
Power (Depend. on design)	
At 12 V:	50 W, 100 W or 150 W
At 24 V:	200 W, 400 W or 600 W
Operating pressure	
Continuously:	-0,8 mbar ... 5 bar
Short-term (< 15 s):	< 6 bar
Volume flow:	< 10 l/min
Lower switching point:	5 °C
Upper switching point:	10 °C

Connectors



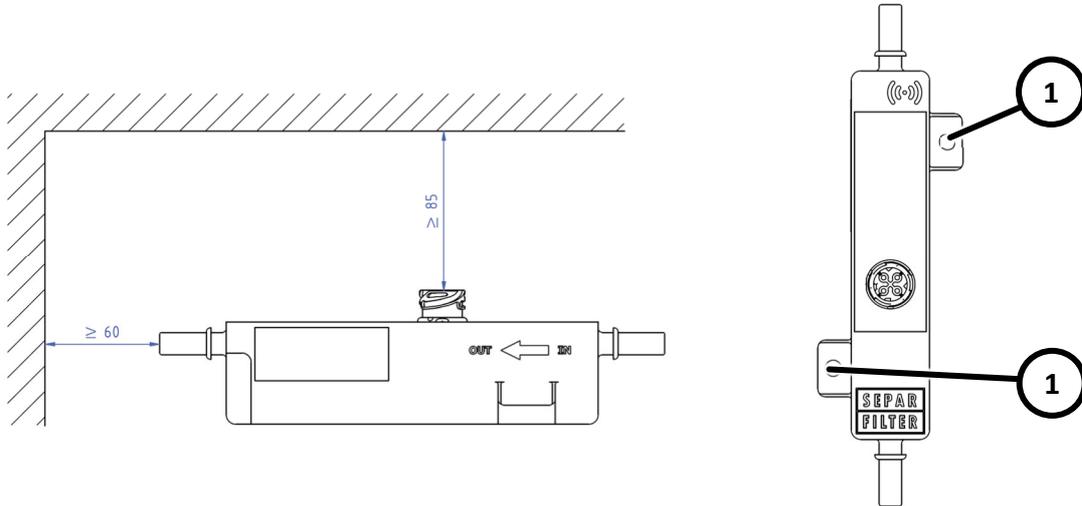
1 Fuel outlet

2 Fuel inlet

3 Electrical connector

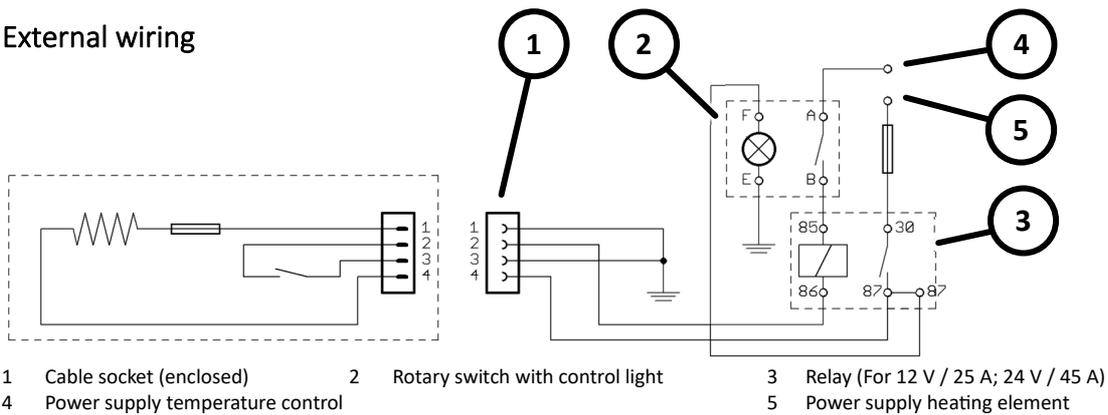
Mounting

The heater can be positioned flexibly. It operates in both horizontal and vertical orientation. The distances of the heater from the installation space limits depend largely on the choice of fuel and cable connections. The heater is mounted on a flat, load-bearing surface using two machine screws via the two mounting bracket.



1 Mounting bracket

External wiring



1 Cable socket (enclosed)

2 Rotary switch with control light

3 Relay (For 12 V / 25 A; 24 V / 45 A)

4 Power supply temperature control

5 Power supply heating element

Initial operation

To start heating operation, the control voltage must be applied to the heater via the switch (2).

If the external wiring is done correctly, the heater current is automatically switched on and off depending on the media temperature and the switching points.

Ordering information

REF	Description
06 4001	LKH heater 200 W
06 4002	LKH heater 400 W
06 4003	LKH heater 600 W
06 1307	Cable socket with straight and angled grommet
06 3884	Quick connector (straight) for fuel connector
06 3883	Quick connector (angled) for fuel connector

Documentation

<http://www.separ.de/lkh>

