

1 General Safety

This guide supports safe handling of the product. Use the product only in accordance with its intended use:

The MelfBox is a vehicle electrical supply system. Assembly and installation should only be carried out by qualified electricians. Any modifications to the product or its components are prohibited and do not conform to its intended use. Only use original LEAB or LEAB-approved accessories.

Observe the safety instructions:

DANGER! Danger from short circuits: Before operating, make sure there are no open or damaged cables.

DANGER! Replace defective parts or damaged cables immediately.

NOTE! Reverse polarity can damage the unit: Before operating, make sure that all cables are connected correctly.

NOTE! Equipment damage and danger of cable fire: Only use the device within the specified voltage limits.

2 Package Contents

No.	Item
1x	Cover
1x	Housing
1x	Housing seal
1x	Body seal
3x	Screw 3.5 x 14
1x	Cap

3 Accessories

Part number	Description
1105001001	Connection cable 2.5 m
1105001002	Connection cable 5 m
1105001003	Connection cable 10 m

4 Technical Specifications

	Part no. 1105002003
Model	MelfBox
Nominal voltage (AC)	230 V (+/- 10%)
Current, max. (AC)	16 A
Frequency	50 Hz
IP rating	IP55
Protection class	I
Operating display	LED
Switch contact	1 A
Material	Polyamide, glass fibre reinforced (PA6 GF30)
Cable cross-section	2.5 mm ²
Contacts	L1/N/PE
Installation depth	56 mm
Installation diameter	55 mm
Weight	0.12 kg
Dimensions (L x W x H)	62 mm x 67 mm x 67 mm

5 Creating a Body Cutout

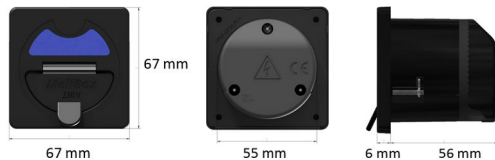


Fig. 1: MelfBox dimensions

To create the body cutout, proceed as follows:

- ✓ Choose a vertical surface.
 - ✓ Choose an assembly site with minimum dust and which is protected from water.
 - ✓ Make sure that there is sufficient space at the assembly site.
1. Saw a hole (Ø 55 mm) in the vehicle body.

NOTE! For sawing the cut-out in the bodywork, LEAB recommends the Bosch HSS bi-metal hole saw for Ø 56 mm 2 3/16", Bosch part no 2 608 584 848.

2. To prevent corrosion, seal the cut surfaces.
- ⇒ The body cutout is now created.

6 Installation

To install the device, perform the following steps:

CAUTION! Install a suitable fuse in the vehicle (up to 16 A).

1. Route a connection cable (H07RN-F, 3 x 2.5) in the vehicle.
2. Attach the connection cable to the vehicle installation.
3. Pierce the housing seal at the intended location with a pointed tool.
4. Feed the connection cable (H07RN-F, 3 x 2.5) through the hole.
5. Connect the wires of the connection cable to the corresponding screw terminals.

⇒ The device is installed.

7 Optional: Connect the immobiliser to the potential-free switching contact (normally open contact)

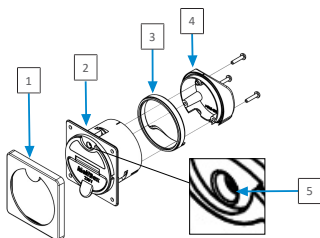
To connect the immobiliser, proceed as follows:

CAUTION! Install a suitable fuse in the vehicle (up to 1 A).

1. Route a cable (H05RN-F, 2 x 0.5) for the immobiliser in the vehicle and connect it to the specific vehicle installation (control module or similar).
2. Insert the immobiliser cable (H05RN-F, 2 x 0.5) through the second hole of the housing seal.
3. Insert the wires of the immobiliser cable into the push-in terminals (max. current: 1 A).

⇒ The immobiliser is connected.

8 Assembly



1	Cover	2	Housing with body seal
3	Housing seal	4	Cap
5	Retaining screw		

To install the device, proceed as follows:

1. Place the housing seal in the cap.
2. Attach the cap to the supply unit with the 3 screws (3.5 x 14).
3. Check the tightness of the housing seal.
4. Push the supply unit into the body cutout.
5. Tighten the 3 screws on the front until the supply unit is firmly seated in the body cutout (maximum torque: 1 Nm).
6. Attach the cover.

⇒ The device is mounted and ready.

9 Operation

NOTE! An inactive immobiliser can cause equipment damage. The immobiliser only works when the MelfBox is active (operating display lit up).

1. Plug the two-pin earthed plug of the connection cable into a 230-V mains supply.
 2. Open the flap of the supply unit.
 3. Plug the coupling into the supply unit.
- ⇒ The voltage input is provided at the load output of the supply unit. Connected consumers are supplied. The operating display shows the operating status of the MelfBox.

LED	Operating status
Blue, flashing	The MelfBox is active. A minimum of 50 W power is removed from the supply unit (the greater the power, the faster the flashing).
Yellow, Steady light	The MelfBox is active. No power is removed. <ul style="list-style-type: none"> – Check the connection of the consumers. – Check the fuse at the outlet of the MelfBox.

10 Disposal



Dispose of the device in accordance with the Waste Electrical and Electronic Equipment Regulations (WEEE).

The system must not be disposed of with household waste. Take it to a recycling point or return it to your point of sale.

11 EU Declaration of Conformity



The MelfBox complies with the requirements of the following directives:

- 2014/30/EU: EMV
- 2011/65/EU: RoHS