

Installation manual - micro Rhombus PL

Read through this installation manual closely before you start with the installation!

NOTE: The micro Rhombus PL system fitted in pairs according to the installation instructions to replace both original front indicators and position lights is permitted by the ECE regulation for motorcycles licensed for road use by EU law as documented on the certification number embossed on each lens. This means that you may use micro Rhombus PL instead of the original indicators and position lights without any additional entries in your vehicle documents or presentation to a vehicle inspection organisation in Germany, or equivalent in other EU member states. **You will not need to keep any documents with you.**

WARNING! Your guarantee will not apply if your micro Rhombus PL system has not been correctly installed or connected to the electrical supply on your motorbike. Do not carry out the installation unless you are qualified to do so; otherwise, leave the installation and connection work for your micro Rhombus PL to a qualified repair shop. Your guarantee does not apply to damage due to wrong connection or excess voltage (such as due to a defective alternator regulator).

WARNING! Improper mechanical installation or orientation of your micro Rhombus PL lights may invalidate your motorbike's roadworthiness and insurance protection, or even lead to accidents. Check that your micro Rhombus PL lights are securely fitted before you ride your motorbike, and tighten up the fastenings again if necessary.

WARNING! Your micro Rhombus PL lights may heat up during use. Contact with bare skin or heat-sensitive objects may lead to damage or injury.

WARNING! Each micro Rhombus PL is equipped with an elastic shock-absorbing arm to absorb vibration, which is designed in such a way as to prevent damage to the micro PL lights from slight deflections of up to 10°. Heavier deflections will damage the arm to prevent damage to your valuable lights. The rubber will overstretch and tear, or sustain such heavy internal damage that it may break after a certain period. You may purchase a silent rubber arm (Order No.: 123.620) for 2.49 Euro (as of October 2009) from your dealer or direct from www.kellermann-online.com.

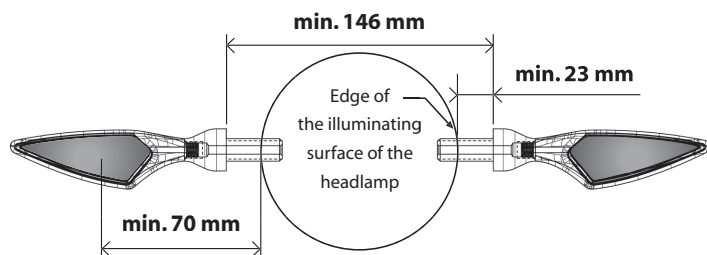
INSTALLATION

WARNING! Make sure that your motorbike is standing firmly before you start work, as a fall may lead to damage to the motorbike or injury to you or others.

Dismantle the original indicators. Mount the micro Rhombus PL in place of the original indicators, or drill an 8.5 mm diameter hole and fasten the micro Rhombus PL at 8 Nm with the self-locking M8 nut supplied. Make sure that the surface under your micro Rhombus PL where the wires will emerge is protected from splash water. Fit the grommets supplied by pulling two wires, then one wire through the holes and pull the grommet up over the thread. Use household detergent to help. Mount the micro Rhombus PL in such a way that the beams run horizontally in your bike's direction of travel. Alignment is important to safety in traffic and essential to your bike's roadworthiness, as a bike with incorrectly aligned lights is easy to overlook on the road.

Make sure that you keep the following gaps in selecting your fastening point:

Viewed from the front, the surfaces to which your micro Rhombus PL will be fastened should be at least 23 mm from the glass edge of your headlight. Do not install your lights onto the moving part of the forks.



Refer to the 93/92/EEC guideline available at www.eur-lex.europa.eu for further mounting regulations.

ELECTRIC CONNECTION

Cut the wires between the indicators and the wire connectors at a suitable position. In addition, look for a plus wire for the dashboard lighting. Connect your micro Rhombus PL as follows:

- Connect the grey wire on the left-hand (or right-hand) micro Rhombus PL to the plus pole on the left-hand (or right-hand) indicator
- Connect the black wire on the left-hand (right-hand) micro Rhombus PL to the minus (earth) pole on the left-hand (right-hand) indicator
- Connect the grey and white wire on both sides of the micro Rhombus PL and connect to the plus pole on the dashboard lighting

You can also connect the position lights through their own switch, but regulations require that you fit an additional green pilot light; both are available from your specialist electronics retail outlet.

Four end connector sleeves are supplied for your micro Rhombus PL to be fitted as follows: Remove the insulation on the wire ends to a length of around 1 cm and insert the two wire ends to be connected into one of the sleeves supplied, and crimp the sleeve firmly with a suitable pair of pliers. This type of connection is technically permanent. To create a non-permanent connection, we recommend Posilock wire connectors (not included), which are available for purchase from our website at www.kellermann-online.com (Order No.: 123.955 / 123.956).

FLASH RATE

If your indicators should flash at a rate faster than permitted – some original indicator relays only work properly at the original indicator power – or if all four instead of just two indicators should flash, we recommend using a power-independent indicator relay from Kellermann (Order No.: 123.970). This solution should be your first choice as it is simple, safe and reliable, and quickly installed. If you are unable to fit the relay onto your motorbike, you can also install resistors in parallel circuit to your indicators. Install the resistors in such a way that heat can escape effectively. The ohm value of the resistor will vary depending on your motorcycle model, but mostly, a 7.5 Ohm resistor rated at 50W power input will be suitable for each micro Rhombus PL.

WARNING! These measures may disable the rapid flashing function to alert you that one of your indicators is no longer working. Check your indicators before each motorcycle trip.

WARNING! These resistors will heat up if the indicator is used for an extended period. Make sure that other components are safe.

As with our Kellerman micro Rhombus LED indicators, the Kellerman micro Rhombus PL system is equipped with the tried-and-trusted Long Life Protection Guard® circuit. This ensures extremely long life with high-power brand LED technology – you will never need to change the LEDs; this is also not possible for roadworthiness reasons.

micro Rhombus PL



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Refer to our homepage at www.kellermann-online.com for our additional information, and our online shop with a full range of spare parts and accessories and a download area. If you have any suggestions or questions, please do not hesitate to contact us by eMail (info@kellermann-online.com) or phone on +49 (241) 93 80 80.

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