

Information on indicator retrofitting

Replacing the original indicators with micro 1000 or micro 1000 LED can lead to different effects, for example a higher blinking frequency, due to the fact that the power input of the micro 1000 / LED indicators is different from the original indicators.

There are two different solutions to suppress these effects.

1. Solution: Installation of ohmic resistors

The use of ohmic resistors leads to a similar load of the relay. This solution is suitable for all motorcycles. The resistance value depends on the difference between the wattage of the original indicators and the micro 1000 (6W) / micro 1000 LED (4,3W).

Original indicators with 21 W: use one 10_ resistor for each "micro 1000",
use one 8,2_ resistor for each "micro 1000 LED".

Original indicators with 10 W: no resistor needed or one 10_ resistor for each side of
the motorcycle.

The ohmic resistors should have a power rating of 20 W. They should not be mounted close to plastic parts (head load).

Generally, if you have to install two ohmic resistors on each side, then you can install both resistors into the electrical mains of one indicator, for example the rear indicator.

You can access a mounting guideline for our ohmic resistors on our homepage:

www.kellermann-online.com .

2. Solution: load independent relay

This solution is only suitable, if the original relay has two or tree pins.

This solution is not suitable if the motorcycle has just one indicator lamp and you installed four micro 1000 LED indicators (in this case you should use the ohmic resistors).

You can access a mounting guideline for our load independent relay on our homepage:

www.kellermann-online.com .