

Mounting Guideline Kellermann Relay

(universal and load independent)

Introduction

The Kellermann relay is an ideal replacement for original relays with 2 or 3 contacts, especially in combination with accessory indicators (optionally with LED-technique). The relay provides a constant blinking frequency over a wide load range. Even in the particular case that all indicators are flashing independent from the selected turn direction, this all-rounder provides assistance.

Warning! Before mounting the relay you should read this guideline completely!

Warning! If you are uncertain about the correct electrical connection you should charge a specialist because only a skilled connection of the relay can assure an accurate functionality. Incorrect electrical connection can lead to short circuiting (cable fire) or damage to other electronic components.

Warning! Before fitting, ensure the motorcycle is standing securely as a falling motorcycle could cause injury and damage to the motorcycle.

Fitting

Turn off the engine and disconnect the battery. Get unobstructed access to the original relay by dismantling the seat and the sidecovers or the fairing. Dismantle the original relay and mount the Kellermann relay near the original slot with the enclosed zip tie. The design of the case allows easy mounting on round tubes (frame). Now you have to connect the wires of the Kellermann relay with the slot.

Electrical connections:

black:	ground (31)
red:	permanent plus (49)
orange/red:	pulsed plus (49a)

If there are no notes on the relay you have to find out the pin configuration. Therefore you need a testing lamp or a demounted original indicator. Remove the original relay and turn the ignition key to „on“.

Connect one cable of the testing lamp with ground and the other one by one with the connections in the slot. If the lamp lights up, you have found the permanent plus (red) connection. For a 2-pin relay the accurate terminal assignment is clarified. The other connection meets the pulsed plus (orange-red). The black cable needs to be connected directly with the battery or the frame.

To find out the ground connector of a 3-pin relay, connect one cable of the test lamp with the before detected permanent plus connector and the other one by one with the remaining connectors. If the lamp lights up you have found the ground connector for the black cable of the Kellermann relay. The orange-red cable meets the remaining connector.

Cut off the red, the black and the orange-red cable to a proper length and strip of the insulation on a length of about 1 cm. Crimp the enclosed male disconnects/ ring type terminal on the cables (original 2-pin relay: ring type terminal on the black cable). Put the male disconnects into the slot and fix the ring type terminal on the battery or the frame.

You only need to connect the orange cables, if all indicators are flashing independent from the selected turn direction. In this case you connect one orange cable with the plus cable of the left indicator and the other one with the plus cable of the right indicator (front or rear). Use the enclosed connector sleeves. Check the correct function of the flasher and complete the bike. Now the job is done.