

# Installationplan of the digital cable harness, Version E

**We know long manuals are annoying, but please take 2 Minutes of your time to read this manual. Thank you for your patience!**

The E-Harness contain a dashboard control module and two power modules.

The dashboard module is connected to the power modules with a shielded 2 wire cables. Please take care that the Date H and Date L cables are not crossed and that the shield is connected to ground. The led in a power module is constant on if the data cables are crossed or not connected and it is flashing if the modules talk with each other. The power cables from the dashboard module to the power modules should have at least 2,5 qmm / AWG 14. Please take care for a good ground connection of all modules.

Each power module can be configured for the front side or the rear side of a car. A power module is configured for the front side if you wire the "Position" pin to ground and it is configured for the rear side if you leave the "Position" pin unconnected. The maximum current from the battery to the dashboard module is 40 Ampere. All outputs of the power modules are short circuit protected and rated with 4 Ampere, except of the headlight outputs and the horn output what can handle 5 Ampere. The maximum current of each power module is 20 Ampere, what is rated due to the maximum current of the main power connector of the module. Please use external fuses for the power modules, cause the highside switches in the modules heat up to 150 degree Celsius in case of a short circuit before they switch off what might result in that the potting compound of the box get small gaps and the box is not waterproof anymore.

The power modules have implemented an led what is located next to the data connector. The led should flash if the module get valid data from the dashboard module and is constant on if there are no valid data available. The dashboard module have 3 led's implemented. The led beside the 4 pin power connector indicate if power is present. The blue led what is located almost in the middle of the module indicate the high beam function and the red led indicate the functions of the direction indicators.

Please note that the modules are not reverse polarity protected and the warranty is not valid if you connect the main power lines of the modules in the wrong way.

Please consider that this device shall only be installed by trained service technicians. The E-Harness works until the battery has reached at least 7 Volt. We cannot assume liability for inappropriate use or installation. We declare the disclaimer of liability for damages on material or persons. Please attend the corresponding traffic regulations in your country before you install the E-Harness. We declare, that the E-Harness comply to the required CE-Norms and ROHS regulations.

For further information please contact us at: [info@elektronikbox.de](mailto:info@elektronikbox.de)

## Technical details:

|                                 |   |
|---------------------------------|---|
| Dimensions:                     | Each module: 104 mm length x 50 mm wide x 25 mm height        |
| Body material:                  | ABS plastic, water resist potted                              |
| Case Color:                     | Black   |
| Recommended cables:             | 0,14 qmm for inputs, 1,5 qmm for power outputs                |
| Power consumption in operation: | 20 mA, outputs off  |
| Maximum ambience temp.:         | 80 degree Celsius   |
| Maximum output current:         | 40 Ampere for control module, 2 x 20 Ampere for power modules |
| Input voltage range:            | 7 - 18 Volt   |
| Maximum input current           | 40 Ampere   |

