



User Manual "IQ-X for Forumslader"

This Manual is only intended to use with the custom build „IQ-X for Forumslader“, not for original headlights IQ-X from Busch+Müller.

After changing the PCB in the headlight IQ-X to get a „IQ-X for Forumslader“ there are several changes in the abilities, the output power and the general use of the headlight.

The new headlight gets 3 stages of brightness:

- Off
- Economy
- full brightness

The headlight gets 2 different operating modes:

- user operated = mode „Manual“
- Automatic sensor operation with dimmer switch = operating mode "Automatic"

Behavior of the headlight in mode "Manual"

- Connecting to voltage (Start of Forumslader) -> Headlight „Off“
- Press button briefly -> Start always in brightness level "Economy"
- Press button briefly again -> Change between "Economy" and "Full brightness" at each push button
- Press button long (approx. 2s) -> Headlight "Off"

Behavior of the headlight in mode „Automatic“

- Connecting to voltage (Start of Forumslader) -> Headlight starts in level „Economy“ for approx. 4s
- Then in daylight -> headlight goes to "Off" or at darkness -> level "Economy"
- Push button briefly -> change in darkness between “Economy” and "Full brightness" at every touch
- Press button long (approx. 2s) -> Headlight goes "Off". Until disconnected from the power supply, the headlamp remains in "Manual" mode and only after the voltage has been disconnected it goes to "Automatic" again

Changing the operating mode and setting the “Economy” brightness

- Press the button for a long time (approx. 10s) and do not release it -> activate the programming function in "Economy", now the brightness is continuously increased, decreased, increased, etc. between 5% and 95% of full brightness
- Release the button
 - a) actual brightness will be saved and used in mode "Economy"
 - b) release at rising brightness -> operation mode "Manual" will be saved
 - c) release at falling brightness -> operation mode "Automatic" will be saved

Technical data of the headlight „IQ-X for Forumslader“

Input voltage: 7-14V DC

Power consumption: 0-9W Economy, 9W at full brightness

Output for the rear light: 6V DC, max. 250mA continuous current

Power consumption in mode „Off“: 0.2-0.6mA