1. General information

These instructions are directed at persons with knowledge and experience in the assembly of bicycle components. Specialist tools may be required. Should you not have such experience or the required tools please enlist the service of a cycle specialist to ensure that this assembly is carried out correctly. Improper assembly may result in a fall or crash resulting in serious injury. Please read these instructions thoroughly and retain them for future reference, follow all the steps described and keep it in a

safe place. Busch+Müller produce an extensive product range of bicycle components. Not every component is suitable for each application or every terrain. Should you be unsure about which type of light component you require for your intended use, you may either contact our service-hotline under +49 2354 915 7111, or by E-mail to service@bumm.de or request advice from a specialist retailer.

2. Packaging contents

Headlight IQ-XL | Busch+Müller bracket | Busch+Müller handlebar switch with cable and attachment band | Assembly and Instruction Manual

3. Safety information

These instructions implement signal words to highlight potential dangers or important informa-

tion. The meaning of the signal words is listed below: WARNING Describes a hazardous situation which, if not avoided, could result in a fatal accident or serious injury.

NOTICE Indicates information considered important, but not hazard-related (e.g. information related to property damage).

The II symbol is used to provide other useful information about your new bicycle component. NOTICE Bicycle components from Busch+Müller are suited to riding conditions on a firm riding terrain. Avoid use under extreme circumstances and never ride down steps or stairs. Do not use B+M components while performing jumps, stunts, tricks, hops or fast descents on uneven terrain.

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4. Legal regulations

Before you operate your vehicle in public traffic, you are obliged to ensure that your vehicle complies with national and local laws and regulations, and you, as a traffic participant must abide by the traffic regulations that apply. These can be found in the Highway Code or national equivalent, and depending on the country, also at other sources.

In Germany, the prescribed mounting height for headlights 1 is between 40 and 120 cm. For details, consult your national Road Traffic Regulations or contact a local bicycle specialist retailer. Always make sure the headlight is mounted and aligned in a way to ensure that oncoming traffic is not blinded. Make sure the headlight is not covered under any circumstances. Also, take care that the headlight

5. Technical specification

Headlight dimensions: width: 71 mm | height: 65 mm | depth: 62 mm | Weight without bracket: 233 q | Low beam brightness in low-power-mode: 200 Lux, in high-power-mode: 300 Lux | high beam brightness: 250 Lux

Requirement: 6 V AC / 3 W (hub dynamo operation)

has been mounted and aligned as prescribed.

6. Assembly

6.1. General assembly instructions

Headlights and cabling - in particular the cable connecting handlebar switch to the headlight - must all be securely fastened to the bicycle so that they do not obstruct the ride or pose a hazard. Cables or headlights getting caught in the wheel spokes pose a risk of injuries or fatal

ler assembly bracket 2. If unsuitable or improperly positioned brackets are used, the headlight may loosen and change position, slide down and, in the worst case, get caught in the wheel spokes.

NOTICE Never mount brackets on conical components!

Make sure to tighten all screws just sufficiently to ensure the headlight 1 cannot move inadvertently. This is particularly important when travelling on uneven terrain.

accidents. Securely fasten the headlight to the bicycle using the enclosed Busch+Müller bracket on the fork crown so that it does not move inadvertently, and its position on the bicycle cannot

change. This setting must be checked before first use. If other brackets are used, no quarantee can be given for secure attachment. A WARNING To avoid falls, accidents and severe injuries, always use the enclosed Busch+Mül-

WARNING Never adjust the light range of your headlight 1 while cycling! This may result in

No inverted mounting: Mounting the headlight in an inverted orientation will turn the beam pattern upside down. The light emitted will therefore be in violation of the traffic regulations and oncoming traffic is likely to be blinded. In addition, this may lead to damage caused by excessive

Two 2-core cables of different lengths are fitted in the headlight 11. The long cable should be

If For best contact, twist the cable ends before insertion into the hub dynamo connector. Connect the short cable (with faston connectors) to the rear light using the cable fitted on the

bike. If the rear light cable is not used, the plugs must be insulated to prevent malfunctions. NOTICE Cables on the headlight 1 must never be cut off completely. The IQ-XL headlight

is only suitable for operation with hub dynamos, Connection to a DC voltage source is not

Connect the headlight to the hub dynamo with the longer hard-wired 2-core cable:

water ingress, the consequences of which are excluded from our warranty.

serious falls and injuries.

Headlight IQ-XL:

nermitted

6.3. IQ-XL connection and rear light

NOTICE Always ensure correct polarity:

connected to the hub dynamo (shorten if necessary).

black cable = power (+); black/white cable = earth (-)

6.2. Headlight alignment

afterwards.

Align the bicycle headlight 11 in a way to ensure that oncoming traffic is not blinded. On a completely

Beam cut line

flat road, the horizontal light edge (cut-off line) must always be visible on the road!

A WARNING Do not use the bicycle if the light beam of your headlight 1 is misaligned or

the headlight 1 is too loose. Blinding oncoming traffic can cause accidents. Before aligning the

A WARNING Never look directly into the light of the bicycle headlight 1 when switched on.

bicycle headlight 1, loosen the bracket retaining screw first. Make sure to retighten this screw again

Attention: Ensure a non-blinding orientation of the beam pattern

Image: correct beam orientation with light switched on

Attach the handlebar button 3 for operating the headlight 1 and the high beam function securely and easily accessible to the handlebars using the enclosed attachment band 4. Connect the cable from the headlight 1 and handlebar button 3 together.

Connect the rear light to the short 2-core cable (with faston connectors) of the headlight:

The short handlebar switch cable with Higo plug is intended for connecting the handlebar switch. Do

The connection must be made using a 2-core or duplex cable without earth (without contact to the

I Always be sure to disconnect any earth wire from the rear light to the frame and replace with

Never cut the connection cables completely, just shorten them to the required length.

7. Operation

handlebar switch.

headlight is on.

The headlight and any rear light connected to the headlight are switched on by pressing the

To switch to low power mode, press the handlebar switch for approx. 1.5 seconds while the

Indication of Low-beam or DRL function: when the headlight is switched on, the green LED in

the handlebar switch lights up if the DRL function is switched on during the day or if the low

While cycling, a small amount of the energy supplied by the dynamo is stored in a capacitor.

energy supplies a driving light LED of the headlight with power, so that the LED continues

to provide light for appr. 5 minutes. The standlight function is always ready for operation,

completely maintenance-free and works without batteries or rechargeable batteries.

After approx. 5 minutes of cycling, the capacitor is fully charged. When stationary, this stored

Low-power: Light reduction to 200 lux with significantly less effort when pedalling.

To switch on the lights, press the handlebar switch for approx. 1.5 seconds. To switch off the lights, press the handlebar switch for approx. 3 seconds.

beam is in high-power mode. The LED does not light up in low-power mode.

High-power: Full brightness with up to 300 lux.

7.1. Standlight (coming / leaving home function)

Suitable for handlebars with a Ø of 22 to 32 mm.

black cable = power (+); black/white cable = earth (-)

This enables both lights to be switched on and off simultaneously.

6.4. Mounting handlebar button with attachment band

not cut this cable under any circumstances!

connection to a 2-core or duplex cable directly from the headlight 1.

Rear light: bicycle frame).

7.2. SENSO operation When switched on, the headlight is always in the SENSO mode. (The pre-requisite for a functioning SENSO mode is a constantly running hub dynamo). Even if the headlight has been switched off while cycling, it is switched back on in the SENSO mode when you continue your ride after an extended stop.

In bright light, the headlight operates in the daytime running light (DRL) function. The low beam of the headlamp is dimmed. The additional daytime running LEDs light up at full brightness for maximum visibility to oncoming traffic! At dusk and in the dark, the headlight automatically switches to the night mode. The headlight shines brightly onto the road. The additional daytime running LEDs are dimmed but still clearly visible to ensure maximum visibility on the road. The headlight's light/dark sensor has a switchover delay of approx. 8 seconds from the night to the day mode. This provides additional safety. Consequently, the mode does not temporarily switch to the daytime running light due to the headlights of passing cars, and provides greater safety thanks to

constant illumination of the road Overvoltage protection: This function is effective even without a rear light connected.

If one LED breaks down, the entire function fails,

switched on again.

7.3. High beam

press of the handlebar switch.

aware that they are endangering themselves or others. NOTICE Use the high beam only if it does not dazzle anyone else!

briefly in a headlight flash when briefly pressing the handlebar switch.

NOTICE If a function LED breaks down, the respective function fails completely and the head-

light switches to low beam. If a driving light (low beam) LED fails, the headlight can no longer be

When the headlights are on (low beam), the high beam function is switched on or off with a short

switch twice. This use is only permitted in situations where another road user should be made

road users could be dazzled. Remember to dip your headlights well in advance. The high beam function can be used as a headlight flasher by briefly pressing the handlebar

tions. The high beam function must not be activated in built-up areas or on roads with adequate road illumination throughout. The high beam function must not be used in cases where other

If the high beam function can be switched on at speeds of 8-12 km/h and above. If the speed drops considerably, the high beam function is automatically deactivated or cannot be switched on. The operation of the high beam function is governed by the provisions of the road traffic regula-

If the daytime running light function is on due to sufficient ambient brightness, the headlight lights up

When the high beam function is switched on, the LED in the handlebar switch lights up blue.

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8. Further information

hazardous waste.

service@bumm.de oder +492354 915-7111.

Cleaning: Protect your headlight against exposure to water under high pressure.

For example, never point a water hose or high-pressure cleaner directly at the headlight. Transport: If you transport your bike on your car in the rain, cover the headlight, with a plastic bag, for

example, to prevent moisture penetration. Radio speedometers: The electronics of radio speedometers and LED headlights may interfere with

each other. Interference can be reduced by maximising the distance between the LED headlight and

the radio speedometer and minimising the distance between the transmitter and receiver of the radio speedometer.

Disposal: Electronic components must not be handled as household waste but are to be disposed of as Repairs: In case of defects, please contact your specialist bicycle dealer or our service department at

Have fun with your new headlight and enjoy safe cycling!

liquids etc.).

the headlight, inadequate safety of assembly and its consequences, immersion in water or other

We do not assume liability for any and all damage caused by improper handling (e.g. dropping

www.bumm.de

Technical modifications reserved.

For spare parts please visit our spare part shop at www.bumm-shop.de

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9. Liability