

MADE IN  
  
GERMANY

MAIN CATALOGUE

# LET THERE BE LUX

*busch+müller*



**NOTE** – OUR PRODUCTS FOR BICYCLES AND E-BIKES ARE ALL APPROVED IN ACCORDANCE WITH THE LATEST STVZO (GERMAN ROAD TRAFFIC LICENSING REGULATIONS). THE PRODUCTS FOR FAST E-BIKES BEAR THE E-APPROVAL MARK.

## CONTENT

HEADLIGHTS	4
REAR LIGHTS	16
CURVE LIGHT	24
BATTERY LIGHTS	26
MIRRORS	36
ACCESSORIES	40

# HEADLIGHTS WITH HIGH BEAM FUNCTION


MADE IN  GERMANY

**NEW**  
DYNAMO  
VERSION

169  
**IQ-XL E**  
Highbeam



  
**300 LUX**

  
**+ 250 LUX**  
High beam mode

- Side visibility
- Extremely wide illumination
- Daytime running light function
- **E-Bike version**
- DC voltage 11 - 48 V
- Requirement: min. 16 W
- **NEW: Dynamo version**

168  
**IQ-XM E**  
Highbeam



  
**120 LUX**

  
**170 LUX**  
High beam mode

- Upright and inverted mounting
- **E-Bike version**
- DC voltage 9 - 48 V
- Requirement: min. 16 W

167H  
**IQ-XS E**  
Highbeam



  
**100 LUX**

  
**150 LUX**  
High beam mode

- Side visibility
- **E-Bike version**
- DC voltage 9 - 48 V
- Requirement: min. 11 W

## DYNAMO AND E-BIKE HEADLIGHTS

164  
**IQ-X**



  
**150 / 100 LUX**

- Aluminium housing
- Side visibility
- Daytime running light function
- Upright and inverted mounting
- **E-Bike version** with 150 Lux
- **Dynamo version**

167  
**IQ-XS**



  
**80 LUX**

- Aluminium housing
- 100 % compostable housing (friendly version)
- Side visibility
- **E-Bike version**
- **Dynamo version**

**NEW**

153  
**Briq-S**



  
**60 LUX**

- Side visibility
- **E-Bike version**
- **Dynamo version**

160  
**Eyc**



  
**50 LUX**

- Smallest dynamo headlight with StVZO approval
- Partial aluminium housing
- Side visibility
- **E-Bike version**
- **Dynamo version**

150  
**Myc**



  
**50 LUX**

- Side visibility
- 100 % compostable housing (friendly version)
- **E-Bike version**
- **Dynamo version**

162  
**Avy**



  
**40 LUX**

- Side visibility
- **E-Bike version**
- **Dynamo version**

151  
**Dopp**



  
**35 LUX**

- Side visibility
- **E-Bike version**
- **Dynamo version**

166  
**Upp**

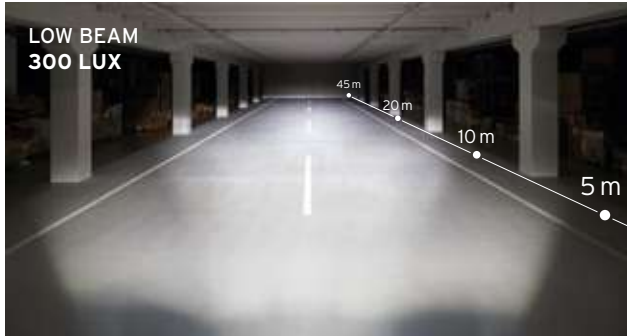


  
**35 LUX**

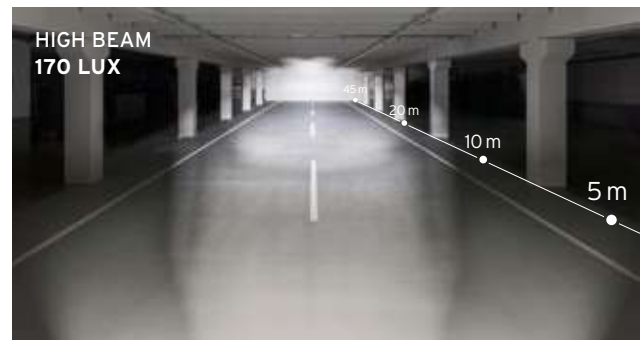
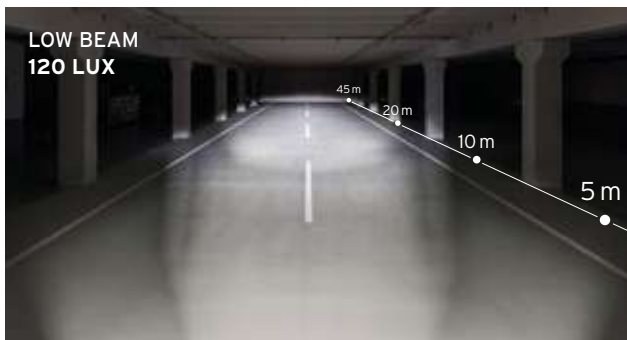
- Side visibility
- **E-Bike version**
- **Dynamo version**

# HEADLIGHTS WITH HIGH BEAM FUNCTION

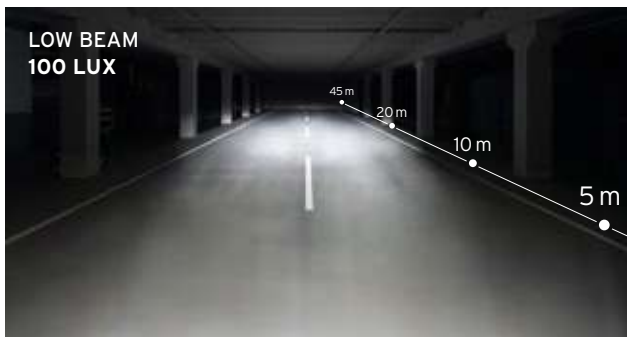
**IQ-XL Highbeam**



**IQ-XM E Highbeam | IQ-XM Speed Highbeam**



**IQ-XS E Highbeam**



Road width 8 m

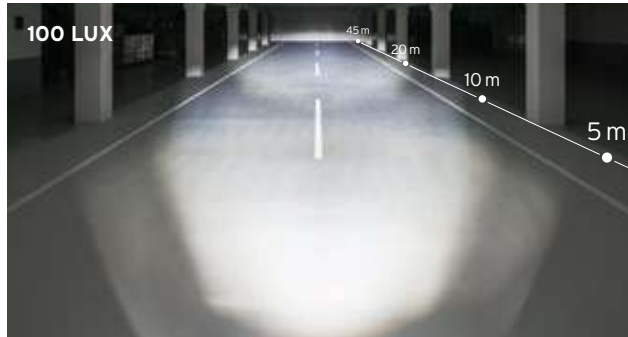


# HEADLIGHTS

**IQ-X E | IXON Space**



**IQ-X**



**IXON Rock**



**IQ-XS | IQ-XS Friendly**



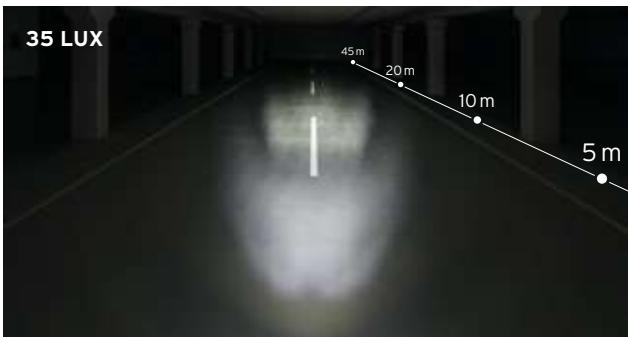
**Brig-S**



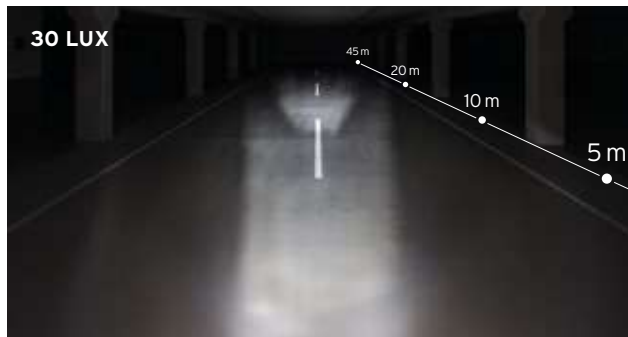
**Myc | Eyc | IXON Core**



**Dopp | Upp**



**Eyro | IXON Fyre | Avy (40 Lux)**



Road width 8 m

# IQ-XL E Highbeam

☾ 300 LUX ☾ +250 LUX

**THE BRIGHTEST HEADLIGHT WITH HIGH BEAM FUNCTION FOR E-BIKES AND BIKES WITH DYNAMO OPERATION.**

300 lux in low beam mode. The large-area light field shines far, wide and homogeneously, right down to the exact light/dark boundary. Pressing the handlebar button breaks the boundaries: with additional 250 lux, the high beam shines even wider and higher.

- For e-bikes and dynamo
- 300 Lux low beam
- Additional 250 Lux high beam
- IQ2 technology
- Side visibility
- E-Bike version: 11 - 48 V DC, 16 W power
- Dynamo version: High beam available at approx. 12 km/h available
- Ergonomic control button for handlebar mounting
- Aluminium housing
- Weight: 225 g
- Exclusively available for manufacturers: Models for fast e-bikes



For E-Bike: Type 169  
For Dynamo: Type 169TSDI



**NEW** | DYNAMO VERSION

The maximum brightness in the low beam is already reached at 25 km/h. The high beam function is available at speeds as low as 12 km/h and reaches previously unattained brightness in particular in the speed range under 50 km/h!

# IQ-XM E Highbeam

☾ 120 LUX ☾ 170 LUX

**HIGH BEAM LIGHT FOR E-BIKES.**

- 120 lux low beam
- 170 lux high beam
- IQ2 technology
- 9 - 48 V DC voltage, 16 W power
- Large light field with close-range illumination
- Screw-on front reflector
- Ergonomic control button for handlebar mounting
- Aluminium housing
- Weight: 125 g



Type 168



Inverted mounting also possible.



# IQ-XS E Highbeam

☾ 100 LUX ☾ 150 LUX

**SMALL. FINE. BRIGHT.  
WITH HIGH BEAM FUNCTION.**

- For e-Bikes
- 100 lux low beam
- 150 lux high beam
- IQ2 technology
- 9 - 48 V DC, min. 11 W power
- Large light field with close-range illumination
- Side visibility
- Screw-on front reflector
- Ergonomic control button for handlebar mounting
- Aluminium housing
- Weight: 120 g



Type 167H

HIGH BEAM

# IQ-XM Speed

☾ 120 LUX ☾ 170 LUX

**BATTERY-POWERED HEADLIGHT WITH HIGH  
BEAM FUNCTION FOR SPORTIVE BIKES.**

The bright IQ-XM Speed battery headlight can be adjusted to three light levels in low beam mode. In high beam mode, it delivers a full 170 lux. Handlebar mounting. Powered by a practical 4600 mAh battery pack. Ideal for road, gravel and mountain bikes.

- Three light levels low beam:
  - 120 lux (4,5 hrs. Run-time)
  - 70 lux (7 hrs. Run-time)
  - 20 lux (23 hrs. Run-time)
- High beam: 170 lux (1.5 hrs. Run-time)
- IQ2 technology
- Large light field with close-range illumination
- Stable twist-lock handlebar mount for  $\varnothing$  22 - 35 mm
- Easy battery attachment with Velcro stretch band
- Ergonomic control button for handlebar mounting
- Headlight housing made of aluminium
- 4600 mAh battery pack with power bank function
- Weight: 110 g (headlight), 255 g (battery)



Type 168B

**Battery**  
Charge level indicator with five blue LEDs: One LED corresponds to 20 % capacity. Can also be used as a power bank.



Inverted mounting also possible.

# IQ-X

100/150 LUX

## HIGH-END HEADLIGHT.

The headlight has an output of 100 lux (dynamo) and 150 lux (e-bike) and impresses with a very broad, wide and homogeneous illumination of the road. In addition, there is an elegant design made of high-quality aluminium, optionally in silver or black.

- 100 lux
- Large light field
- Daytime running light
- Close-range illumination
- IQ2 technology
- Sensor automatic\*
- Stand light
- Switch ON/OFF
- Aluminium housing
- Front reflector screw-on
- Side visibility
- Connection for rear light
- Weight: 120 g

### E-BIKE VERSION

- 150 lux
- 6 - 60 V DC
- For Bosch Active and Performance 6V, Bosch 12V, all Brose and Shimano drives except Steps 6000 up to 2018
- Requirement: at least 7.5 W rated power at the light connection of the drive system
- Available with connector for BOSCH systems



Type 164



Inverted mounting also possible.

IQ-X		Switch ON/OFF	Stand light	Daytime running light	E-Bike
<b>T senso plus</b>	164RTSNDI	■	■	■	
<b>E</b>	164R60TS7			■	■

# IQ-XS

80 LUX

## SMALL. FINE. BRIGHT. THE HEADLAMP WITH A HIGH-QUALITY ALUMINIUM HOUSING.

The smaller brother of the IQ-X can not only impress with the designed aluminium housing, but also with its performance on the road. With the large-area beam pattern and close-range illumination, every ride in the dark becomes a pleasure, optionally in silver or black.



Also available as friendly version with compostable housing.

- 80 lux
- Large area light field
- IQ2 technology
- Daytime running LEDs
- Side visibility
- Close-range illumination
- Switch ON/OFF
- Sensor automatic\*
- Stand light
- Front reflector screw-on
- Connection for rear light
- Aluminium housing
- Weight: 87 g

### E-BIKE VERSION

- 6 - 42 V DC
- Sensor-controlled daytime running LEDs
- For Bosch Classic, Active and Performance 6V, Bosch 12 V, all Shimano drives and Brose
- Available with connector for BOSCH systems



Type 167

IQ-XS		Switch ON/OFF	Stand light	Daytime running LEDs	E-Bike
<b>T senso plus</b>	167RTSNDI	■	■	■	
<b>friendly</b>	516711GRTSNDI		■	■	
<b>E</b>	167R42TS			■	■
<b>friendly E</b>	516711GR42TS-04			■	

# Brig<sup>®</sup>-S

60 LUX

## MAXIMUM STYLE: LIGHT OF THE FUTURE.

The new Brig-S is impressingly angular, showing futuristic cubist form. The highlighted modern touch added to the angular design lines give the bike an unmistakable character and make it stand out in the crowd. The headlight with IQ light technology illuminates the road evenly with 60 lux.

- 60 Lux
- Daytime running LEDs
- Clip-on front reflector
- Connection for rear light



### E-BIKE VERSION

- 6 - 15 V DC, with daytime running LEDs
- 6 - 42 V DC, Connection for rear light (DC voltage)
- For Bosch 12 V, all Brose and Shimano drives except Steps 6000 until 2018
- Available with connector for BOSCH systems

NEW



Type 153

		Switch ON/OFF	Stand light	Daytime running LEDs	E-Bike
<b>Brig-S</b>					
<b>N</b>	153RN	■			
<b>T senso plus</b>	153RTSNDI	■	■	■	
<b>E</b>	153R42/6				■
<b>E T senso</b>	153R12TS			■	■

# Eyc<sup>®</sup>

50 LUX

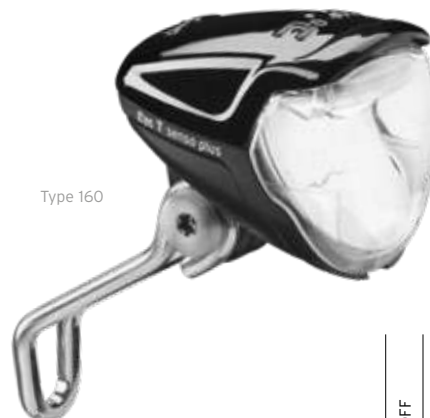
## THE SMALLEST – ALSO FOR E-BIKES.

The smallest LED dynamo headlight with IQ2 light technology offers with its 50 lux a very good and homogeneous road illumination – with light in the near field. The powerhouse in miniature format weighs just 75 grams and is equipped with rear light connection in the dynamo variant NDI.

- 50 lux
- IQ2 technology
- Switch ON/OFF
- Close-range illumination
- Clip-on front reflector
- Connection for rear light
- Weight: 75 g

### E-BIKE VERSION

- 6 - 42 V DC
- For Bosch Classic, Active and Performance 6V, Bosch 12 V, all Shimano drives and Brose
- Connection for rear light (DC voltage)



Type 160

		Switch ON/OFF	Stand light	Daytime running LEDs	E-Bike
<b>Eyc</b>					
<b>plus</b>	160RDI		■		
<b>N plus</b>	160RNDI	■	■		
<b>T senso plus</b>	160RTSNDI	■	■	■	
<b>E</b>	160R42/6				■

# Myc®

50 LUX

## ON THE MOVE IN STYLE.

The eye-catching MYC gives us 50 Lux Output and a homogenous beam pattern. A streamlined design form, compact and robustly built, the headlamp with its many functions is the entry into the premium product category.

- 50 lux
- IQ2 technology
- Switch ON/OFF
- Sensor-controlled daytime running LEDs
- Close-range illumination
- Clip-on front reflector
- Connection for rear light
- Weight: 67 g

### E-BIKE VERSION

- 6 - 42 V DC
- For Bosch Classic, Active and Performance 6V, Bosch 12 V, all Shimano drives and Brose
- Connection for rear light (DC)



Type 150

Also available as friendly version with compostable housing.



		Switch ON/OFF	Stand light	Daytime running LEDs	E-Bike
<b>Myc</b>					
<b>N</b>	150RN	■			
<b>N plus</b>	150RNDI	■	■		
<b>T senso plus</b>	150RTSNDI	■	■	■	
<b>E</b>	150R42/6-04				■

# Avy®

40 LUX

## EVERYTHING YOU NEED.

The slim version of a headlamp with real IQ technology. With 40 lux and good, homogeneous road illumination, it is the ideal mid-range headlight – technically absolutely up to date at a very good price-performance ratio.

- 40 lux
- IQ2 technology
- Close-range illumination
- Clip-on front reflector
- Connection for rear light

### E-BIKE VERSION

- 6 - 42 V DC
- For Bosch Classic, Active and Performance 6V, Bosch 12 V, all Shimano drives and Brose
- Connection for rear light (DC)



Type 162

		Switch ON/OFF	Stand light	Daytime running LEDs	E-Bike
<b>Avy</b>					
<b>N</b>	162RN	■			
<b>N plus</b>	162RNDI	■	■		
<b>T senso plus</b>	162RTSNDI	■	■	■	
<b>E</b>	162R42/6				■

## SMALL. APPEALING.

Thanks to its proven lens technology, the likeable LED headlamp of the smallest design provides 35 lux on the road. Depending on the version, this includes stand-light and daytime running LEDs. Large light openings to the side increase all-round visibility and thus safety.

- Lens technology brings good 35 lux on the road
- Extremely compact headlight
- Clip-on front reflector
- Connection for rear light
- Weight: 80 g

### E-BIKE VERSION

- 6 - 42 V DC
- For Bosch Classic 6V, Bosch Active and Performance 6V, Bosch 12V, Shimano Steps 6000, Shimano Steps 8000 and Brose
- Connection for rear light (DC)



Type 151

Dopp		Switch ON/OFF	Stand light	Daytime running LEDs	E-Bike
<b>N</b>	151N	■			
<b>N plus</b>	151NDI	■	■		
<b>T senso plus</b>	151RTSNDI	■	■	■	
<b>E</b>	151R42/6-04				■

## SIMPLE. STYLISH. SOUND.

The design of the Upp features clean lines that create a harmonious look. As for its performance, it is a robust 35-lux headlight with close-range illumination and side light emission for increased visibility.

- 35 lux
- Close-range illumination
- Integrated front reflector
- Connection for rear light
- Weight: 68 g

### E-BIKE VERSION

- 6 - 42 V DC
- For Bosch Classic, Active and Performance 6V, Bosch 12 V, all Shimano drives and Brose
- Connection for rear light (DC)



Type 166

Upp		Switch ON/OFF	Stand light	Daytime running LEDs	E-Bike
<b>N</b>	166N	■			
<b>N plus</b>	166NDI	■	■		
<b>T senso plus</b>	166TSNDI	■	■	■	
<b>E</b>	166R42/6				■

# HEADLIGHT BRACKETS



**470H**  
Metal, long, black,  
L/S\* = 55/20mm



**471F**  
Metal, short, black,  
L/S\* = 40/21mm



**471U**  
Diecast zinc, U-shaped,  
black



**474D** (silver)  
**474DS** (black)  
Stainless steel, short,  
L/S\* = 25/18mm



**475D** (Wire-Ø 4,5 mm)  
**460D** (Wire-Ø 4,0 mm)  
Stainless steel, shiny,  
medium length L/S\* =  
45/18 mm



**475D/1** (silver)  
**475DS/1** (black)  
Stainless steel, medi-  
um length, L/S\* =  
45/25mm



**475DS**  
Stainless steel, black,  
medium length,  
L/S\* = 45/18mm



**474DL** (silver)  
**474DLS** (black)  
Stainless steel, long,  
L/S\* = 60/18mm



**475DU**  
Bracket for Overhead  
mounting,  
L/S\* = 55/20mm



**474DU**  
Bracket for overhead  
mounting,  
L/S\* = 36/27mm



**471B** (1")  
**471B/1** (1 1/8")  
Plastic, for  
head tube mounting



**471LH**  
Plastic, long, extremely  
break-proof, L\* = 75mm



**464HA**  
Milled aluminium  
**464HAs**  
(black)



**464H** (blank)  
**464HS** (black)  
Multi-joint bracket, plastic,  
with aluminium cable guide,  
L/S\* = 40/32mm



**471AR**  
Bracket for  
RST-forks



**471A**  
Bracket for SR forks  
CR8, NEX + NCX ab 2016



**471E**  
Extension piece (in addi-  
tion to 471A for hydraulic  
brakes)



**471ASR**  
Bracket für Rock Shox  
(Paragon)



**471AXK**  
Bracket, short, for SR forks  
CR9 + NCX (2009-2015)



**471AX**  
Bracket, long, for SR forks  
CR9 + NCX (2009-2015)



**475ISS/ISM**  
Stainless steel special screw  
and washer. For all stainless  
steel brackets



**471AOL**  
Bracket, long, for  
Suntour forks (Mobie)



**471AOK**  
Bracket, short, for  
Suntour forks (Mobie)



**470GP**  
Adapter for  
GoPro mounts



**470A**  
plastic adapter  
for head lights



**470LH**  
Handlebar mount for dyna-  
mo headlights, compatible  
with Bosch e-bike computer  
displays



**475K**  
Cable guide  
for 475D, 475DS,  
475D/1, 475DS/1



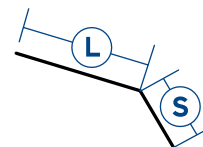


**471AF**  
Bracket for FOX AWL forks



**470LHA**  
Single-arm aluminium handlebar bracket for handlebar diameter 25,4 / 31,8 & 35 mm

**\* NOTE**  
L = length  
S = leg



**480A**  
IXON Core adapter for 470LH + 470LHA and stem caps with headlight attachment



**498A**  
IXON Rock adapter for 470LH + 470LHA and stem caps with headlight attachment



**496A**  
IXON Space adapter for 470LH + 470LHA and stem caps with headlight attachment



**480GP**  
IXON Core adapter for GoPro, Garmin & Wahoo



**498GP**  
IXON Rock adapter for GoPro, Garmin & Wahoo



**496GP**  
IXON Space adapter for GoPro, Garmin & Wahoo



## INVERTED MOUNTING

### FOR IQ-X, IQ-XM, IQ-XM SPEED

The headlights can be modified for inverted mounting in just a few simple steps.

**The exact instructions for the conversion can be found in the operating instructions of the corresponding headlights.**



Conversion manual on YouTube



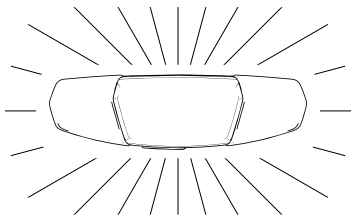
# REAR LIGHTS WITH BRAKE LIGHT AND EMERGENCY BRAKE LIGHT FUNCTION

## BREX®-TECHNOLOGY

In rear lights with BREX technology, a sensitive deceleration sensor is integrated. This detects every braking process and differentiates the braking intensity. The rear light is controlled accordingly: normal operation, braking or emergency braking. Thanks to the integrated deceleration sensor, unlike previous brake tail lights, no wiring to the brake lever is required.

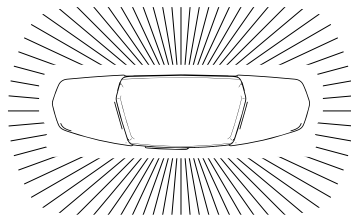
### NORMAL OPERATION

In normal use, the rear lights with BREX technology offer cyclists the best visibility from behind. The integrated sensor system is active at all times and reacts to braking or emergency braking.



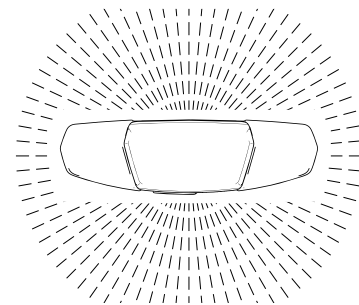
### BRAKING

When the braking process is detected by the integrated sensor system, the rear light illuminates very brightly and clearly to signal following road users to slow down. More than five times as bright as in normal operation and thus many times brighter than previous tail lights with so-called deceleration light.



### EMERGENCY BRAKING

New: In the event of abrupt braking, the brake light switches up another level to the brightly pulsating emergency brake light function. In this mode, BREX conveys the dangerous situation with an unprecedented signalling effect and prevents accidents.



## SECUZED® E BREX®

MUDGUARD REAR LIGHT  
Type 333KSB



## BRIXXI®

BATTERY REAR LIGHT  
Type 385



## Line E BREX®

CARRIER REAR LIGHT  
Type 323KSB



## Kite® E BREX®

CARRIER REAR LIGHT  
Type 534022KSB



## Dart E BREX®

CARRIER REAR LIGHT  
Type 340KSB



# REAR LIGHTS

MADE IN  
  
**GERMANY**

332  
  
 Page 20



**Mudguard,  
 strut or  
 Seat post**

- Aluminium housing, anodised
- Smallest rear light with StVZO approval
- **Dynamo version**
- **E-Bike version**

**BREX VERSION**

333  
**SECUZED**  
 Page 22



**Mudguard,  
 strut or  
 Seat post**

- Smallest approved rear light with Z reflector
- Ring of 10 bright LEDs
- Integrated Z reflector
- **Dynamo version**
- **E-Bike version**
- **Brex version**

331  
**SECULA**  
 Page 22



**Mudguard,  
 strut or  
 Seat post**

- LineTec function
- Integrated reflector
- **Dynamo version**
- **E-Bike version**
- **Battery version**

**BREX VERSION**

323  
**Line**  
 Page 21



**Carrier**

- LineTec function
- Integrated Z reflector
- Optional with brake light function
- **Dynamo version**
- **E-Bike version**
- **Batterie version**
- **Brex version**

**BREX VERSION**

534022  
**Kite**  
 Page 21



**Carrier**

- Improved strip light technology
- **Dynamo version**
- **E-Bike version**
- **Brex version**

**BREX VERSION**

340  
**Dart**  
 Page 20



**Carrier**

- Improved strip light technology
- Integrated Z reflector
- **Dynamo version**
- **E-Bike version**
- **Brex version**

321  
**View**  
 Page 23



**Carrier**

- LineTec function
- Integrated Z reflector
- Optionally with delay light: BrakeTec
- **Dynamo version**
- **E-Bike version**
- **Battery version**

326  
**2C**  
 Page 23



**Carrier**

- LineTec "light brackets"
- Integrated Z reflector
- **Dynamo version**
- **E-Bike version**
- **Battery version**: Detachable and rechargeable via USB

# REAR LIGHTS MUDGUARD MOUNTING + STRUT MOUNTING

	Art.-Nr.	Type	Stand light	LineTec	Brex
<b>μ</b>					
μ silber	332ALK	Dynamo	■		
μ schwarz	332ALK-01	Dynamo	■		
μ E silber	332ALDC	E-Bike			
μ E schwarz	332ALDC-01	E-Bike			

## SECUZED

plus	333ALK	Dynamo	■		
E	333ALDC	E-Bike			
E brex	333KSB	E-Bike			■

## SECULA

plus (Mudguard)	331ASK	Dynamo	■	■	
plus (Strut)	331/2ASK	Dynamo	■	■	
E	331ASDC	E-Bike		■	
permanent (Mudguard)	331BS	Battery (2xAAA)	■	■	
permanent (Strut)	331/2BS	Battery (2xAAA)	■	■	

# REAR LIGHTS CARRIER MOUNTING

	Art.-Nr.	Type	Mounting distance	Stand light	LineTec	BrakeTec	Brex
<b>Line</b>							
plus	323ALT	Dynamo	50	■	■		
plus	323/8ALT	Dynamo	80	■	■		
brake plus	323/5ALTV	Dynamo	50	■	■	■	
brake plus	323/8ALTV	Dynamo	80	■	■	■	
E K brake	323/5KB	E-Bike	50		■	■	
E brex	323KSB	E-Bike	50		■		■
senso	323/5BLHR	Battery (1xAAA)	50	■	■		
senso	323/8BLHR	Battery (1xAAA)	80	■	■		

## Dart

plus	340ASK-02	Dynamo	50/80	■	■		
E	340ASDC-02	E-Bike	50/80		■		
E brex	340KSB-02	E-Bike	50/80		■		■

## Kite

E	534022ASDC	E-Bike	50				
E brex	534022KSB	E-Bike	50				■

## View

plus	321ASK	Dynamo	50/80	■	■		
brake plus	321ASKV	Dynamo	50/80	■	■	■	
E	321ASDC	E-Bike	50/80		■		
permanent	321BS	Battery (2xAAA)	50/80	■	■		

## 2C

plus	326ASK	Dynamo	50/80	■	■		
E	326ASDC	E-Bike	50/80		■		
permanent	326US	Akku	50/80	■	■		





**SMALL. SMALLER. μ.**

The smallest street-legal rear light. [my:], pronounced mew. Minimalist and in a high-quality aluminium housing. Despite its small size, it offers very good all-round visibility. Small, efficient and highly visible, the rear light fits perfectly with many modern bikes.

- Minimalist design
- Very good all-round visibility
- Aluminium housing, black or silver anodised
- Optional mudguard, strut or seat post mounting
- Dynamo version: Stand light
- E-bike version: voltage range 5 - 15 V DC



For E-Bike: Type 332ALDC



For Dynamo: Type 332ALK



μ is available in the following versions: **Dynamo** | **E**. See page 19.

REAR LIGHTS

# Dart

**CONTEMPORARY MEETS SIGNATURE.**

Powerful and uniform light thanks to new LED technology. The integrated Z reflector and three arrow-shaped elements each on the left and right ensure maximum attention. Easy to mount on the luggage carrier.



- New strip lighting technology: Visible from a long distance
- Super-compact
- With Z reflector
- Luggage carrier mounting
- Dynamo version: Stand light
- For e-bikes: Voltage range 5 - 15 V DC



Type 340



**VERSION WITH BREX TECHNOLOGY TYPE 340KSB**

- With brake light and emergency brake light function
- for DC operation 6 - 50 V

Dart is available in the following versions: **plus** | **E** | **E Brex**. See page 19.



# Line

CARRIER REAR LIGHT

## OUR TOP SELLER. BRIGHT, POPULAR AND VERSATILE.

Super bright thanks to LineTec light strips and 2 high-power LEDs. 320° visibility and the large integrated reflector provide additional safety. Also available with brake light function or BrakeTec.

- Super-bright
- Number of high-power LEDs: 2
- Strip light technology LineTec
- 320° visibility
- Integrated Z reflector
- Stand light
- Carrier mounting
- For e-bikes: voltage range 5 - 15 V
- Also available as battery version



Type 323

### VERSION WITH BRAKETEC TYPE 323KB

- When the brake lever is pulled, the brake light lights up extremely brightly
- Voltage range 5 - 50 V
- Compatible brake systems available from: Magura, Tektro and Formula

### VERSION WITH BREX TECHNOLOGY TYPE 323KSB

- With brake light and emergency brake light function
- for DC operation 6 - 50 V

Line is available in the following versions: plus | brake plus | E K brake | E Brex | senso. See page 19.

REAR LIGHTS

# Kite<sup>®</sup>

## HIGHEST SIGNAL EFFECT PACKED IN UNIQUE AND FLAT DESIGN.

The e-bike tail light for mounting on narrow luggage racks convinces with design and performance. The shape finishes harmoniously on the sides of the luggage carrier. A sensor-controlled brake light function adds an additional light strip and thus increases safety many times over. Please check in advance mounting possibility.

- Unique flat design
- Homogeneous LineTec light strip visible from a distance
- Triangular side visibility
- Very well visible from the side
- Carrier mount 50 mm
- For e-bikes: voltage range 5 - 15 V



Type 534022

### VERSION WITH BREX TECHNOLOGY TYPE 534022KSB

- With brake light and emergency brake light function
- for DC operation 6 - 48 V

Kite is available in the following versions: E | E Brex. See page 19.

# SECUZED®

MUDGUARD REAR LIGHT

## WITH THE SMALLEST Z REFLECTOR.

A bright ring of light composed of ten individual LEDs.  
As flat, small and light as no other.

- Fulfils all regulations for active and passive protection of the bicycle to the rear
- Integrated Z reflector
- Stand light function
- For mudguard, seatpost and strut mounting
- Steplessly angle-adjustable sliding base
- For e-bikes: voltage range 5 - 15 V

## VERSION WITH BREX TECHNOLOGY

### TYP 333KSB

- With brake light and emergency brake light function
- For DC voltage 6 - 50 V



Type 333

SECUZED is available in the following versions: E | E Brex. See page 19.

MUDGUARD REAR LIGHT

# SECULA

## COMPACT AND SUPER VISIBLE.

The LineTec prism system with its elegant clear glass look is placed as a ring around the reflector. A red circle of light shines brightly.

- Number of LEDs: 1
- Strip light technology LineTec
- Integrated reflector
- Mudguard or strut mounting
- For e-bikes: voltage range 5 - 15 V



Type 331

SECULA is available in the following versions: plus (Mud guard) | plus (Strut) | E | permanent (Mud guard) | permanent (Strut). See Page 19.

# 2C

## CARRIER REAR LIGHT

### MINIMALIST IN DESIGN - BRILLIANT IN FUNCTION.

Minimalist sovereign in design (105 x 31 mm). The function: In the dark, the two C-shaped clear glass chambers on the left and right shine as bright light bands. The light from these distinctive "light brackets" comes from two high-performance LEDs; in the centre is the Z large-area reflector. The 2C has stand light as standard.

- Number of LEDs: 2
- Strip light technology LineTec
- Stand light
- Integrated Z reflector
- Minimalist design
- Luggage carrier mounting
- For e-bikes: voltage range 6 - 15 V
- Also available as battery version (See page 27)



Type 326

2C is available in the following versions: plus | E | permanent. See Page 19.

## CARRIER REAR LIGHT

# View<sup>®</sup>

### THE ELEGANT TOP LIGHT.

The View ensures ideal side visibility thanks to the all-round clear glass body and good visibility thanks to two super-bright LEDs. The effect: brightly shining light area perception even from a very long distance.

- Number of LEDs: 2
- Strip light technology LineTec
- Integrated Z reflector
- Stand light
- Carrier mounting
- For e-bikes: voltage range 5 - 15 V
- Also available as battery version (See page 27)



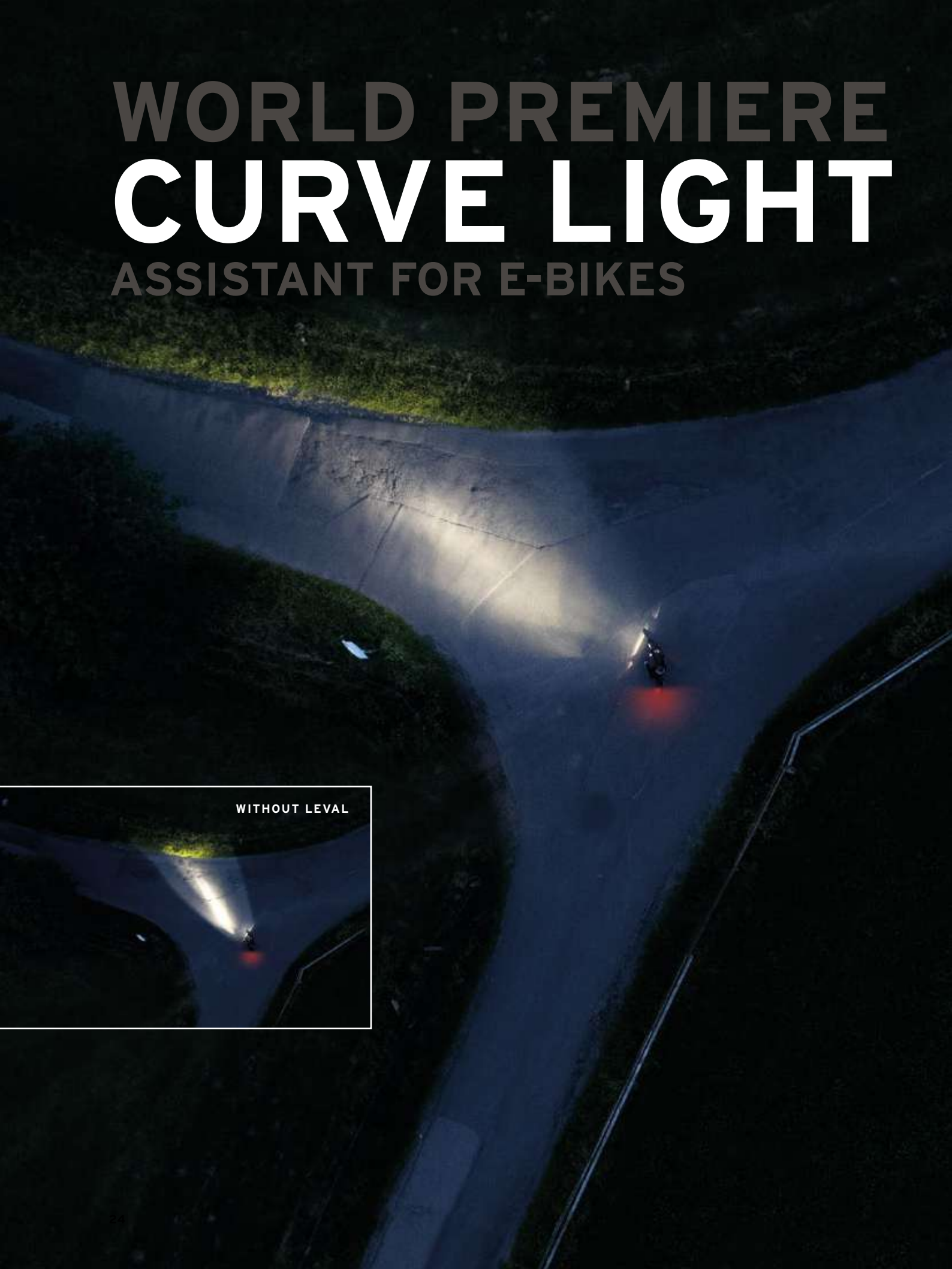
Type 340

VIEW is available in the following versions: plus | brake plus | E | permanent. See Page 19.

# WORLD PREMIERE

# CURVE LIGHT

## ASSISTANT FOR E-BIKES

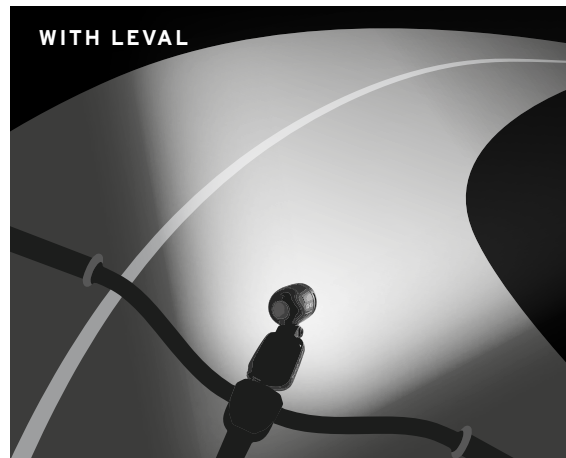




## THE CURVE LIGHT ASSISTANT FOR E-BIKES

Brightly lit corners for a comfortable and safe riding experience. The curve light assistant is installed between mount and headlight and compatible with almost all e-bike headlights by Busch + Müller.

- When steering left or right, the device electronically keeps the light/dark boundary at an always horizontal angle, the headlight is literally turned into the curve
- The beam pattern does not tilt down to the left or right when the bicycle leans into the corner, and thereby prevents the shortened visibility we experience with fixed lighting.
- Seven bearing rings
- No adjustment necessary: Install, activate, and off you go
- With switch ON/OFF
- For DC power sources 6-15 V (e-bikes)
- In case LEVAL is mechanically blocked, it deactivates automatically to prevent damage
- Approved by the German federal office for motor vehicles



Scan QR code to experience LEVAL in augmented reality!



Type 365



# BATTERY HEADLIGHTS

MADE IN  
  
**GERMANY**

**168B**  
**IQ-XM**  
 Speed



 **120 LUX**
 **170 LUX**  
 High beam mode

- Low beam: 120 lux (4.5 hrs\*) / 70 lux (7 hrs\*) / 20 lux (23 hrs\*)
- High beam: 170 lux (1.5 hrs\*)
- Handlebar bracket for up to 35 mm
- Control button for handlebar mounting
- External battery pack (capacity indicator)
- Rechargeable via USB
- With power bank function

**196**  
**IXON**  
 Space



 **150 LUX**

- Handlebar bracket for up to 35 mm
- 150 lux (>2 hrs\*)
- 10 lux (30 hrs\*)
- With capacity indicator
- Brightness adjustable in 8 steps
- Rechargeable via USB
- With power bank function

**198**  
**IXON**  
 Rock



 **100 LUX**

- Handlebar bracket for up to 35 mm
- 100 lux (>2 hrs\*)
- 50 lux (6 hrs\*)
- 15 lux (25 hrs\*)
- With capacity indicator
- Quick charge function 100% in 3 h
- Rechargeable via USB
- With power bank function

**180**  
**IXON**  
 Core



 **50 LUX**

- Handlebar bracket for up to 35 mm
- 50 lux (>3 hrs\*)
- 12 lux (15 hrs\*)
- With capacity indicator
- Rechargeable via USB

**195**  
**IXON**  
 Fyre



 **30 LUX**

- Handlebar bracket for up to 35 mm
- 30 lux (>5 hrs\*)
- 10 lux (15 hrs\*)
- With capacity indicator
- Rechargeable via USB

**163**  
**Eyro**



 **30 LUX**

- 30 lux (>5 hrs\*)
- 10 lux (15 hrs\*)
- With front reflector
- With stainless steel bracket, for fork mounting
- Light unit removable
- Rechargeable via USB



# BATTERY REAR LIGHTS

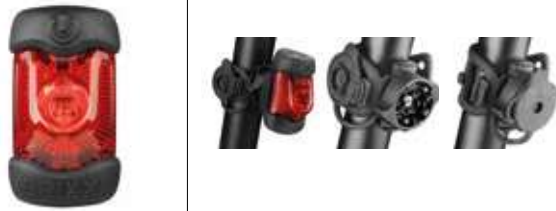
MADE IN  
  
 GERMANY

383  
**IXXI**



- Mounting: seat post
- Run-time: 15 hrs
- With tension band
- With capacity indicator
- Rechargeable via USB

385  
**BRIXXI**



- Mounting: seat post
- Run-time: approx. 20 hrs
- Super-bright and wide beam angle
- BREX technology
- Twist-lock bracket for easy removal and re-attachment
- With capacity indicator
- Rechargeable via USB

382  
**IXBACK**



- Mounting: seat post
- LineTec strip light
- Run-time: 25 hrs
- 360° all-round visibility
- Automatic switch-on
- With capacity indicator
- Rechargeable via USB

331  
**SECULA**



- Mounting: seat post or strut
- Strip light technology LineTec
- Run-time: 20 hrs
- 2 batteries (AAA) enclosed

326  
**2C**



- Mounting: Luggage carrier
- LineTec "light clips"
- Run-time: 15 hrs
- Integrated Z reflector
- Removable
- With capacity indicator
- Rechargeable via USB
- See page 23

321  
**VIEW**



- Mounting: Luggage carrier
- LineTec strip light
- Run-time: 20 hrs
- Integrated Z reflector
- 2 Batteries (AAA) enclosed
- See page 23

# IQ-XM Speed

☾ 120 LUX ☾ 170 LUX

## BATTERY-POWERED HEADLIGHT WITH HIGH BEAM FUNCTION FOR SPORTIVE BIKES.

The bright IQ-XM Speed battery headlight can be adjusted to three light levels in low beam mode. In high beam mode, it delivers a full 170 lux. Handlebar mounting. Powered by a practical 4600 mAh battery pack. Ideal for road, gravel and mountain bikes.

- Three light levels low beam:
  - 120 lux (4,5 hrs. Run-time)
  - 70 lux (7 hrs. Run-time)
  - 20 lux (23 hrs. Run-time)
- High beam: 170 lux (1.5 hrs. Run-time)
- IQ2 technology
- Large light field with close-range illumination
- Stable twist-lock handlebar mount for  $\varnothing$  22 - 35 mm
- Easy battery attachment with Velcro stretch band
- Ergonomic control button for handlebar mounting
- Headlight housing made of aluminium
- 4600 mAh battery pack with power bank function
- Weight: 110 g (headlight), 255 g (battery)



# Space<sup>®</sup>

☾ 150 LUX

## COMPACT MAXIMUM LIGHT PERFORMANCE.

The peak level of 150 lux can be used for more than two hours – space and road surface are illuminated broadly, widely and brilliantly as never before.

- High-power LED battery headlight
- Aluminium housing, anodised
- IQ2-Technology
- 150 lux maximum output
- Wide field of light
- Close-range illumination
- Eight brightness levels, individually switchable, digitally displayed
- Highest level: 150 lux (> 2 hrs. run-time)
- Lowest level: more than 10 lux (30 hrs. run-time)
- Integrated lithium battery
- Powerbank function
- Stable twist-lock handlebar mount for  $\varnothing$  22 - 35 mm
- Weight: 240 g



# Rock

100 LUX

## HIGH-END MEETS DESIGN.

The battery-powered headlight in an elegant aluminium housing has an output of 100 lux at full level and meets the highest demands in terms of width, width and homogeneity.

- Three light levels:  
100 lux > 2.5 hrs run-time  
50 lux > 6 hrs run-time  
15 lux ~ 25 hrs run-time
- Practical design element:  
The charge level indicator with five LEDs on the side: 100 % - 80 % - 60 % - 40 % - 20 %
- Charging via Micro-USB – Charging accessories supplied fully charge in three hours
- During the day, the headlamp can serve as a USB power bank and provides 1500 mAh when fully charged
- Twist-lock handlebar mount for  $\varnothing$  22 - 35 mm
- Weight: 160 g



Type 198



Bracket available for inverted mounting.



With side charge level indicator:  
1 LED = 20 % | 5 LEDs = 100 %



Incl. twist-lock handlebar mount

# Core

50 LUX

## THE SMALL MOBILE ONE.

Very good and homogeneous road illumination. Removable with a click. All-round soft component offers impact protection.

TOUR Europe's biggest road bike magazine „The most compact is the IXON Core ... the cheapest, smallest and lightest headlight in the test.“ Trekkingbike For the editors, it is the only headlight with the top rating SUPER and the „Trekkingbike TIP“ award. RoadBIKE Das Rennradmagazin tests with VERY GOOD.

- HighPower: 50 lux, 3 hrs. run-time
- LowPower: 12 lux, 15 hrs. run-time
- IQ2-Technology
- Aluminium housing, silver or black anodised
- Integrated lithium battery
- Rechargeable via micro USB
- With capacity indicator
- Weight: 112 g



Type 180ML

Type 180L



Bracket available for inverted mounting.



Included:  
Universal holder for  $\varnothing$  22 - 35 mm handlebar diameter

# Fyre®

☾ 30 LUX

The practical entry-level model with IQ technology. Rechargeable via micro USB socket (power supply unit and cable included with type 195L). Weighs only 143 g including battery and holder.

- 30 lux
- Close-range illumination
- Integrated lithium battery
- Capacity indicator
- HighPower: 30 Lux (5 hrs. run-time)
- LowPower: 10 lux (15 hrs. run-time)
- Universal holder for  $\varnothing$  22 - 35 mm handlebar diameter



Type 195

Included:  
Universal holder for  $\varnothing$  22 - 35 mm  
handlebar diameter

# Eyro®

☾ 30 LUX

This battery headlight is mounted on the fork! Integrated lithium battery. The light/battery unit is removed for charging – the carrier part always remains firmly mounted on the bike. Rechargeable via micro USB socket.

- 30 lux
- IQ2-Technology
- Close-range illumination
- Integrated lithium battery
- Rechargeable via USB
- Capacity indicator
- HighPower: 30 Lux (5 hrs. run-time)
- LowPower: 10 lux (15 hrs. run-time)
- Integrated front reflector



Type 163

# SECULA

The LineTec prism system with its elegant clear glass look is placed as a ring around the reflector. A red circle of light shines brightly.

- Number of LEDs: 1
- Strip light technology LineTec
- Mudguard or strut mounting
- Two Batteries (AAA) are enclosed



Type 331

# BRIXXI®

## FIRST BATTERY-POWERED REAR LIGHT WITH BREX TECHNOLOGY.

The extremely compact battery-powered rear light combines a powerful high-performance LED with innovative BREX technology. As a real brake light with emergency brake light function, it is ideal for sporty bikes.

Simple mounting of the holder on the seat post with a tension strap. The rear light can be removed with a simple twist and later reattached by snapping it into place while the holder remains on the bike.

- Super bright and wide beam angle
- Integrated BREX technology brake and emergency brake light function
- Run-time: approx. 20 h
- Integrated lithium battery
- Rechargeable via USB
- Twist-lock bracket for easy removal and re-attachment



Type 385

# IXXI®

High-power LED. Very bright, large beam angle.  
Fits almost all seat posts. 53 mm high, 31 mm wide.  
Weight (incl. battery and holder): 35 g.

- Integrated lithium battery
- 15 hrs. run-time
- Rechargeable via USB
- With capacity indicator



Type 383

# IXBACK®

Lights up for 25 hours at full brightness. Easy quick mounting with rubber ring or cable tie – light box can be removed in one easy step. Also possible: maximum theft-proof mounting.

- LineTec strip light
- 360° all-round visibility
- Automatic switch-on (light/motion sensor) or continuous light selectable
- With capacity indicator
- Integrated lithium battery
- Rechargeable via USB



Type 382/1US



### THE COMPACT AND SUSTAINABLE POWER SUPPLY FOR ON THE GO.

Powerful powerbank that is charged via the dynamo. Ideal for charging devices on short and long tours. The K-Werk supplies a current of up to 1.9 A via USB at 5 V voltage.

- Battery pack 7.2V, 5,000 mAh
- Rechargeable via dynamo
- Powerbank function
- USB connection
- Stable, low fluctuation power output
- Rainwaterproof
- Battery status display
- Mounting with Velcro strap
- IQ-XM speed compatible

AVAILABLE END OF 2023



# E-WERK®

For connection to a hub dynamo. Supplies energy to charge or power mobile devices. Voltage (up to 13.3 V) and current (up to 1.5 A) can be adjusted variably. Charges at velocities of approx. 8 km/h and faster - at only 15 km/h as quickly and efficiently as standard mains connected chargers. It can also be connected to DC power sources of up to 50 V, so that operation with an e-bike or car battery is possible as well. Extensive accessories. Universal connections (also USB). Splash- and rainwater-proof.



Type 361

# USB-WERK

For powering/charging mobile devices via hub dynamo. Supplies 5 V and up to 500 mA current. An integrated small cache battery ensures constant 5 V supply during slow riding and/or stops. Universal connections. Contains cable with USB socket. Splash- and rainwater-proof.



Type 361BW

# SPECIALS FOR SPEED E-BIKES

Components for these types of e-bikes may not simply be retrofitted. Therefore, they are only spare parts available from the vehicle's manufacturer as spare parts.

## IQ-X E

### HIGH-END HEADLIGHT FOR FAST E-BIKES UP TO 45 KM/H.

The headlight has a full 150 lux and convinces with a very broad, wide and homogeneous large-area illumination of the road. It also has an elegant design made of high-quality aluminium, available in silver or black.

- 150 lux
- For speed e-bikes 6 - 60 V DC
- Close-range illumination
- Requirement: at least 7.5 W rated power at the light connection of the drive system
- With E-mark



Type 164

## Horn

### HORN! IS THAT ALLOWED?

No, not on bicycles in Germany. But it is for fast e-bikes, if the horn/signal transmitter is compliant with the regulations, i.e. meets the high requirements for the E-mark!

- Only for speed e-bikes
- Effective sound
- Including handlebar push button
- Type 661: Adhesive mounting on down tube
- With E-mark



Type 660

Type 661

## Licence plate mount

Number plate holder system, consisting of holder, rear light with brake light, number plate light, reflector.

- Integrated rear light with brake light
- Integrated licence plate light
- Adjustable holder, suitable for licence plates from DE, NL, A, CH
- Reflector
- All lighting components with E-mark



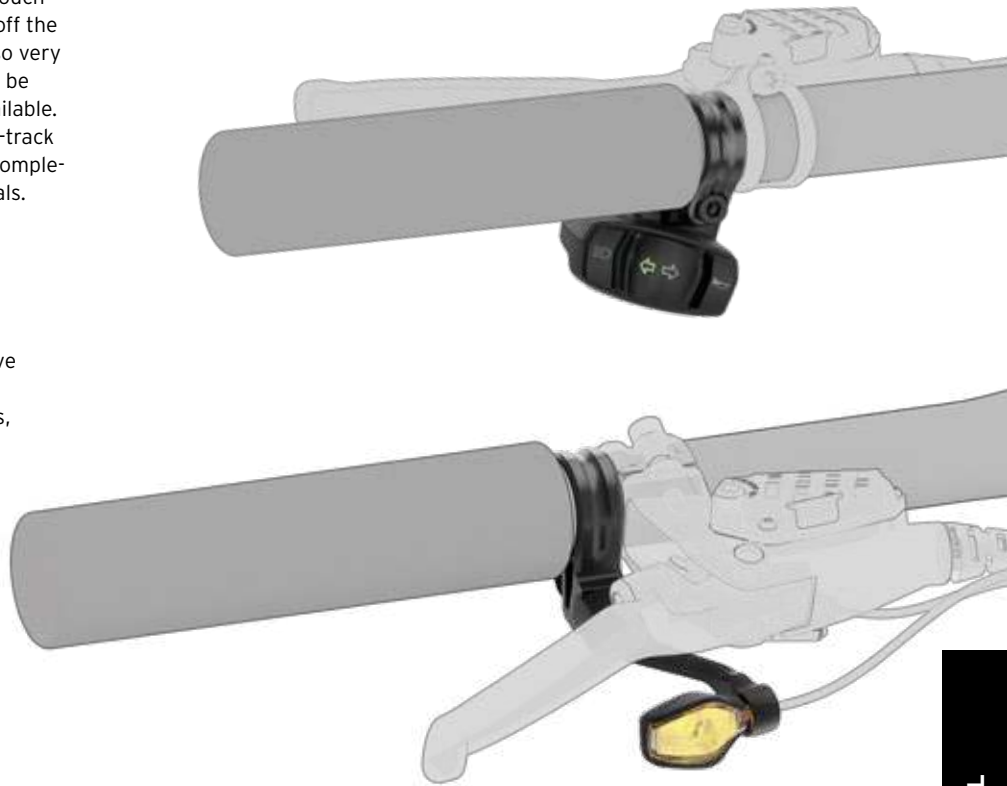
Type 650

### SAFETY THAT MANY HAVE BEEN WAITING FOR.

With the Busch + Müller turn signal, changes in direction can be indicated quite simply at the touch of a finger, without having to take your hands off the handlebars. This is not only convenient, but also very safe. The ergonomic handlebar switch can also be used to operate the high beam and horn, if available. Approved for S-pedelecs, bicycle trailers, multi-track bicycles/pedelecs and those with a body that completely or partially obscures the rider's hand signals.

- Making it easier to turn
- Always two hands on the handlebars
- Four turn signals: 2 front, 2 rear
- Failure detection if a turn signal is defective or not plugged in correctly
- Comfort flashing (tap = flash several times, press longer = flash until pressed again)
- Ergonomic multifunction control
- Various wiring kits available

EXPECTED TO BE AVAILABLE END 2023

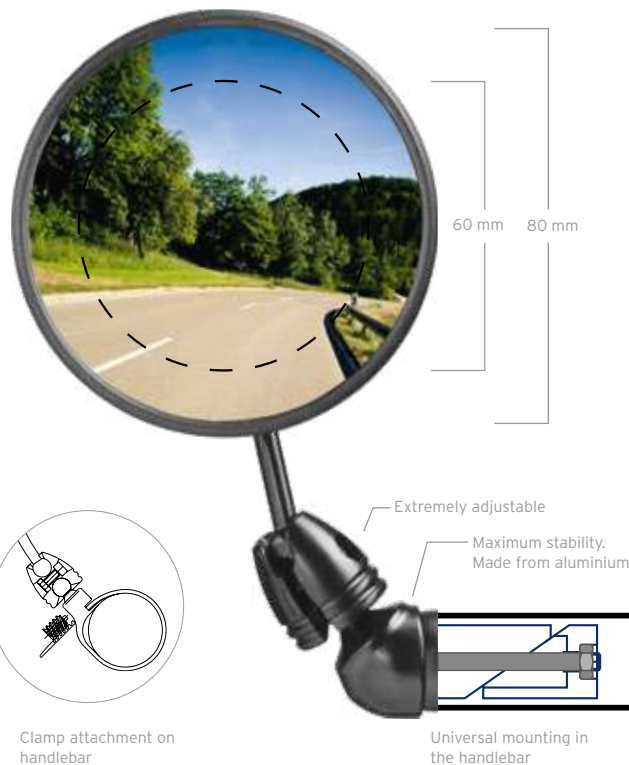


# CYCLE STAR®

The premium rear view mirror series for bicycles and pedelecs is now available in three sizes and two shapes. The pronounced curvature of the mirror provides an extra large field of vision. Its glass is protected against shattering. All CYCLE STAR mirrors are extremely adjustable and can be turned inwards.

## MOUNTING

Using the internal handlebar mount is the sturdiest mounting option, saving space on the handlebar itself. Most CYCLE STAR mirrors can be clamped onto the handlebar as well, all mounting accessories are included. Only internal handlebar mounting (non-adjustable) for types 901/2, 903/2 and 913/712.



### Ø 80 MM: TYPE 903/7

Can easily be folded in - this also protects in case of collisions! If the mirror is folded out again, it automatically locks back into its previous position. Approved for speed e-bikes in Switzerland. Only with internal handlebar mount. For handlebar diameters 17,2 to 22 mm. For straight or bent handlebars (maximum angle 22°).



### Ø 80 MM: TYPE 903/6A

Turns away in case of a collision. Approved for speed e-bikes in Switzerland. Internal handlebar or clip mount. Upright or hanging mounting possible: handlebar diameters 14,5 to 18,5 mm.



Extra long bar  
Ø 60 mm: Type 901  
Ø 80 mm: Type 903



Short, straight bar  
Ø 60 mm: Type 901/1  
Ø 80 mm: Type 903/1



Short, curves bar  
Ø 60 mm: Type 901/3  
Ø 80 mm: Type 903/3



Only with internal handlebar mount  
Ø 60 mm: Type 901/2  
Ø 80 mm: Type 903/2



# CYCLE STAR® E

This new pentagonal CYCLE STAR shape offers an even larger reflecting surface. The soft circumferential component protects the mirror in case of collision. These mirrors are approved for speed e-bikes. Mark of approval "E".



## CYCLE STAR E 913/712

Can easily be folded in - this also protects in case of collisions! If the mirror is folded out again, it automatically locks back into its previous position. Approved for speed e-bikes. Only with internal handlebar mount. For handlebar diameters 17.2 to 22 mm. For straight or bent handlebars (maximum angle 22°).

## CYCLE STAR E 913/612A

Turns away in case of a collision. Approved for speed e-bikes. Upright or hanging mounting possible: handlebar diameters 14,5 to 18,5 mm. Internal handlebar or clip mount.

## E-BIKE MIRROR 45 KM/H

Comply with requirements for fast e-bikes. Defined size, curvature and function: The mirror must not stay rigid during collisions, but must collapse. Mark of approval "E".



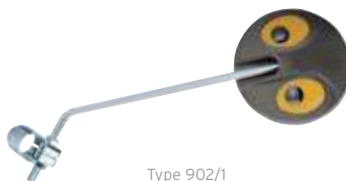
Type 913/701VLME  
No bar, space-saving,  
particularly low-vibration



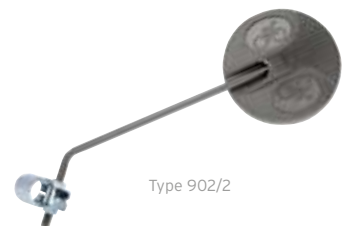
Type 913/801VLME

## STANDARD MIRROR FOR BICYCLES AND PEDELECS

Plastic housing: Ø 93 mm, flat glass.  
Rod: Ø 6 mm, with solid metal clamp.



Type 902/1  
with reflector foil



Type 902/2

# REAR VIEW MIRRORS AND LIGHT COMPONENTS FOR MOTORCYCLES

MADE IN  
  
 GERMANY

A selection from our range. Many further models available upon request!



**Universal mirror**  
 Ref. no. 911/2 - L+R / P+V



**Leg shield mirror**  
 Ref. no. 912/2 - L+R / P+V



**Pivoting mirror (folds in)**  
 Ref. no. 913/3 - L+R / P+V  
 Ref. no. 913/1 - Plastic version



**Universal mirror**  
 Ref. no. 922 - M / P+V



**Universal mirror**  
 Ref. no. 922/15 - M / P+V / e



**Universal mirror**  
 Ref. no. 922/16 - M / P+V / e



**Hinge mirror**  
 Ref. no. 960VE



**BMW mirror**  
 Ref. no. 1911/966V / L + R<sup>1)</sup> / E



**BMW mirror**  
 Ref. no. 1911/903VCE<sup>1)</sup>



**BMW mirror**  
 Ref. no. 1911/2063VM  
 / L + R<sup>1)</sup> / E



**BMW mirror**  
 Ref. no. 1911/77BVME



**BMW mirror, completely milled from Aluminium**  
 Ref. no. 1911/112VM / L + R<sup>1)</sup> / E



**Hercules mirror**

Ref. no. 913/4 - L+R / P+V  
Ref. no. 913/2 - Inner handle-  
bar mirror universal



**Honda mirror**

Ref. no. 926/300A0VE2



**Honda mirror**

Ref. no. 926/37V / M+C



**Honda mirror**

Ref. no. 926/500AVME / L+R



**KTM mirror**

Ref. no. 916/307VMEKT<sup>1)</sup>



**KTM mirror**

Ref. no. 916/909VE / L+R<sup>1)</sup>



**KTM mirror**

Ref. no. 916/962VM / L+R<sup>1)</sup>



**MBK-/Peugeot mirror**

Ref. no. 928/801SILBVE / L+R



**BMW direction indicator**

Ref. no. 1811/34 / L + R<sup>1)</sup> / E



**BMW licence plate light and holder, integrated reflector**

Ref. no. 1811/40<sup>1)</sup> / E

Busch + Müller has been manufacturing components for motorbikes for many years. These traditionally include rear-view mirrors, but in recent years lighting expertise has also played a stronger role. Thus, the portfolio includes turn signals, rear lights and number plate lighting, among others.

Customers include many well-known brands from the automotive and motorcycle industries. Only a selection of the extensive product range is shown here. Many of the products shown above are not freely available, as they are produced exclusively for the respective vehicle manufacturer.

**REFERENZEN**



**L+R** separate versions available for left- or right-hand installation  
**P+V** with flat or reducing Glass available  
**V** only available with reducing glass  
**M** also available in matt black

**C** also available chrome-plated  
**M+C** available in matt black or chrome-plated  
**e** also available with test approval „E“  
**E** with test approval „E“  
**1)** exclusively for OEMs

# REFLECTORS



## FRONT 313/5WB

Wide angle reflector. Approval marks B, D, E, GB. Also in red: REAR type 313/1WB. Reflector dimensions: 55 x 50 mm.



## FRONT 313/5U<sup>1)</sup>

Integrated U-shaped plastic holder. Especially suitable for cantilever brakes. Only 12 g. Approval marks D, E, GB. Also available in red: REAR type 313/1U. Reflector dimensions: 38 x 47 mm.



## FRONT 464R

For IQ-X, IQ-XS, IQ-XM and Cyo without daytime running light. Can be screwed on. Approval marks D, E, GB.



## FRONT 313/5WF<sup>1)</sup>

Wide angle reflector. Metal holder. Especially suitable for suspension forks, V-, hydraulic and drum brakes. Approval marks B, D, E, GB. Also in red: REAR type 313/1WF. Reflector dimensions: 55 x 50 mm.



## FRONT 313/5WU<sup>1)</sup>

Wide angle reflector. U-shaped metal holder. Thread M6. Especially suitable for cantilever brakes. Approval marks B, D, E, GB. Also in red: REAR type 313/1WU. Reflector dimensions: 55 x 50 mm.



## FRONT UNIVERSAL 313/5K<sup>1)</sup>

Tension band and rubber insert for all pipe diameters. Only 10 g. Approval marks D, E, GB. Also in red: HECK universal type 313/1K. Reflector dimensions: 38 x 47 mm.



## 306GS

Back with self-adhesive foil. Test mark D, E. Reflector dimensions: 89 x 13 mm. For fork mounting.



## HECK 312H

Approved for contour-parallel mounting on mudguard (inclined up to 30°). Approval marks D, E. Type 312H/8: with metal tab for riveting on. Reflector dimensions: 55 x 50 mm.



## HECK 313/1

Mudguard mounting with screw. Mark of conformity D, E. Reflector dimensions: 38 x 47 mm.



## HECK MINI-Z 313/1ZB<sup>1)</sup>

Plastic screw clamp Ø 13-40 mm, 55 x 50 mm. High reflection values with small size. Approval marks D (incl. Z), E.



## HECK 314/1

Mudguard mounting. Especially suitable for short mudguards. With screw. Approval marks D, E. Type 314/8: with metal tab for riveting on. Reflector dimensions: 40 x 45 mm.



## HECK 313/3Z

Format 27 x 91 mm. Carrier mounting. Screws 50 mm. With 2 screws. Approval mark D (incl. Z), E.



## HECK BIG 316WZ

Carrier mounting, screws 50 and 80 mm apart. With 2 screws. Approval mark D (incl. Z), E. Type 316: with flat reflector. Type 316W: wide angle version. Reflector dimensions: 50 x 110 mm.



## HECK 312Z

Mudguard rear reflector, red, with Z-approval mark. Radius 30 mm (for strongly curved mudguard) | Radius 43 mm (for flat mudguard) To be mounted with 15° inclination. Screw-on or glue-on versions available.



## Abstandhalter 317

With white (to the front) and red (to the rear) rear reflector, incl. mounting material and mounting instructions.



## SpeichenRückstrahler 309M

Unloseable. For all wheel sizes. With stainless steel clamps. Approval marks D, E.



## SpeichenRückstrahler 309

Unloseable. For all wheel sizes, rotatable plastic fasteners. Test mark D, E. Type 309V for narrow spoke spacing.



## SPECIAL 563

Format 36 x 61 mm. Back with self-adhesive foil. Mark of conformity D, E, SAE. Type 563/2: Reflector yellow, Type 563/5: reflector white.



## TEDDY-REFLEX 621STPB/CLIP 625

Pedestrian reflectors. Crystal clear or coloured reflector.

# UNIVERSAL COCKPIT-ADAPTER

- Holds mobile devices securely on the handlebar
- For devices with widths from 45 to 115 mm
- For handlebars with diameters from 22 to 40 mm
- Easy to fit with tensioning strap, no tools required
- Mobile devices are easily clamped or removed with a handle
- Additional securing strap included



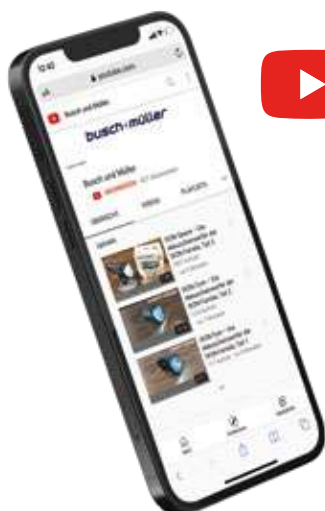
Typ 262

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