

Bike Lighting

RANGE OF PRODUCTS 2022

made in Germany





nabendynamo.de







Contents

About us	4
Hub Dynamos	6
for Standard Forks	10
for Thru Axles	13
for Fatbikes	16
for Trikes	17
for Folding Bikes	18
Wheels	20
Accessories	21
Headlights	22
for Hub Dynamos	23
for Pedelecs	28
Rear Lights	30
Accessories	32
for Headlights	32
Brackets	32
for Rear Lights	33
Wiring	34
SON Coaxial Connector System	36
Self-Connecting System	38





3



SON stands for hub dynamo lighting of the highest quality. Many thousands hub dynamos and headlights go to customers all over the world every year. We would like to thank our experienced specialist dealers, manufacturers and sales partners who make a very good service possible, with a high number of variants.

Pioneer Work – Owner and chief engineer Wilfried Schmidt had the goal as a mechanical engineering student to develop a reliable, all-weather and smooth-running power source for bicycle lighting. His first gearless hub dynamo was created in 1992. With "Schmidts Original Nabendynamo" he brought his first own brand on the market in 1995.

Perfection – Since then Wilfried has been researching and working together with his growing team on the perfection of the hub dynamo lighting system. New dynamo models, standard versions but more and more special versions for MTB, gravel bike, folding bike, cargo bike or recumbent tricycle are developed. The production of LED headlights, rear lights and wiring solutions follows the same high quality standards as the hub dynamos. SON lighting systems provide reliable, long-term maintenance-free and everywhere available electricity for lights and chargers in any terrain.

Progress – We are happy to design special versions of our hubs that meet individual applications perfectly well. Another field of work is the development of small generators based on the SON hub dynamo for applications of all kinds. More and more machines, vehicles, construction machines and even play-ground equipment use the SON generators for self-contained and persistent power supply.





Made in Germany

All SON products are produced in the southern German town Tübingen with a lot of manual work. A team of almost 50 cycling enthusiasts works here in product development, production and distribution. With modern CNC-machines, turned and milled parts are manufactured with high precision. We design our own machines and systems for special manufacturing processes and in this way we are able to produce even very special parts economically.

Each hub dynamo and headlight is thoroughly tested during and after assembly. This enables us to guarantee the high quality of our products at all times. We give a 5-year guarantee on all our products.



Diversity and Good Service

We love bicycles! This is why, in the diversified world of bicycles, we are ready to support small customers. Market niches are important for us. In cooperation with and at the request of bicycle manufacturers special SON hub dynamos are developed or standard dynamos are built in special numbers of spoke whole and colours. Due to a high inhouse manufacturing depth we can produce small quantities even just in time.

We work together with mainly regional suppliers on a long-term basis. Practical experience - that of our customers and our own - always provides impulses for improving our products. Competent advice and our claim to carry out repairs even on very old products originate from our love for bikes.

Our Philosophy

Our primary objective is to promote the bicycle as best environmentally and people friendly means of transport. Cycling should become safer and more comfortable.

In addition to a perfect, durable and economically successful product, the impact of our work on the environment, employees and customers is important to us. It goes without saying that our products are produced in an environmentally friendly way.

New Building 2021

In 2021, we built a new company location in Kusterdingen, a neighbouring town of Tübingen, for component production and development division. The ecological solid wood construction is exceptional for a company building: With the "Holz 100" construction, the walls on the first floor are completely glue-free, without toxic wood preservatives and are held together by wooden dowels. A special highlight of the building are the solar bricks, which are both solar panels as well as roof sealing. We are very happy about the accomplished new building and our future prospects in Kusterdingen.



Hub Dynamos Electricity for Lighting & Charging

Consequently designed for smooth running and for durability, SON hub dynamos have been undisputed benchmark for many years. The generator is precisely adapted to the intended use and thus efficiently powers headlight, rear light or any charging device. Due to high-end hub technology SON hub dynamos perform with longest possible durability – regardless if it's a standard hub dynamo or a special version for mountain bike, folding bike or trike. Our range of hub dynamos covers more than 100 versions that meet most needs.



HÖCHSTE

LEBENSDAUER

Zertifiziert für höchste Qualität und Nachhaltigkeit



 versions for various axle types and 2 different generators (SON 28 and SONdelux)
 See p. 9 for details

- 6 Volts 3 Watt SON 28 generates 3 Watts nominal power at 15 km/h, whereas SONdelux generates 3 Watts at 20 km/h in 700c/29" wheels (powering lights)
- conforms German legal regulations StVZO
- weight from 350 g (depending on model): Low weight due to a weight-saving generator, not by reducing durability relevant dimensions (e.g. flange thickness)
- made in Germany | 5 years guarantee

High Durability

Usually, a SON hub dynamo will last a bike's complete life cycle. A cheap hub dynamo produces the same power, but it often doesn't take long until it has to be completely replaced due to bearing damage. A durable everyday object is not a luxury but, over the years, an investment that pays off.











PRESSURE COMPENSATION SYSTEM

The unique pressure compensation system is vital for the long lifetime of the SON hub dynamo. A tube is wound around the electric coil and open on one side and connected to a hole in the axle on the other side. In this way, air can flow from the outside to the inside when cooling down, which prevents negative pressure. This means that existing water is not sucked through the seals and the hub dynamo is optimally protected against corrosion and freezing.

SOLID CONNECTIONS

The contacting of the SON hub dynamos is reliable and solid. Robust 4.8 mm spade connectors, potential-free, are standard. The connection is made either with spade connectors or with SON Coaxial Connector and Coaxial Adapter. Many models are alternatively also available for Self-Connecting System.

HIGH-QUALITY BEARINGS

Double-sided sealed bearings from SKF ensure a very long lifetime without maintenance.

OPTIMIZED GENERATOR

The claw pole generator has a central coil. The permanent magnets made of neodymium iron boron are arranged on a copper-plated steel ring on the housing. Due to the sheet metal parts made with elaborate workmanship, the magnetic field is optimally conducted and eddy currents are reduced. This is how the unsurpassed low no-load losses of the SON hub dynamos are achieved.

PRECISE SPOKE HOLES

The precise spoke holes with large countersinks are a must for loadable wheels. This is why it will be sufficient to true the wheel only once.







Efficient & Smooth Running

SON hub dynamos are gearless and highly efficient. This means that with lights switched on they run extremely smoothly and normally you won't feel their input power. With lights switched off there is again significantly less resistance - it is hardly more than on a standard hub without internal generator.

With carefully fabricated sheet metal parts and 100% quality control of the generators each SON hub dynamo is optimized to smooth running. Cheap hub dynamos often have higher no-load losses as well as considerable quality fluctuation.



Two types of generators: The difference between SON 28 and SONdelux

SON 28

SON 28 is designed for high power output at low speed. This is why SON 28 gives a lot of electricity for lights or for powering charging devices even when cycling slowly.

- high power output (even at low speed)
- recommended for use with charging devices

SONdelux

The SONdelux has a slightly slower rising voltage characteristics, i. e. it needs a slightly higher speed to deliver the same voltage/power as the SON 28.

- extra light
- especially smooth running
- optimized for fast riding and for use in small wheels

Charging Options

A rising number of cyclists make use of their hub dynamos not only to power their lights. They need to charge any kind of mobile devices. For this purpose, several manufacturers offer chargers that rectify and condition the alternating current of the hub dynamo.

What is possible depends on the charger, the power consumption of the device and the individual driving and usage behaviour. A buffer battery is required for unfavourably programmed devices.

At high riding speed a hub dynamo can deliver significantly more than the rated power of 3 Watts. For charging strong consumers like smartphones we recommend a hub dynamo with SON 28 generator. For convenient connection of a charger the SON Coaxial Junction Box is available (p. 24/33).



– p. 10-12

– p. 13-15

The right hub dynamo for every axle type

For Standard Forks -

Hub dynamos for 100 mm width and 9 mm axle diameter with and without disc brake mount.



disc 6-bolt

disc center lock

SONdelux disc center lock

For Thru Axles

Hub dynamos for 12 mm or 15 mm thru axles with disc mount, also versions in Boost Standard (110 mm width).







SON 28 12 disc center lock



SONdelux 12 disc center lock



SON 28 12 110 disc 6-bolt



SON 28 12 110 disc center lock



SON 28 15 disc 6-bolt





SON 28 15 110 disc 6-bolt

The SON Axle Adapter (p. 19) makes it possible to use a 12/100 mm thru axle hub in a standard 9/100 mm QR fork. Bear your future bike in mind when retrofitting the current one.

For Fatbikes -

Hub dynamos with extra large width (135 mm or 150 mm) and disc brake mount.



SON 28 135 disc 6-bolt SON 28 15 150 disc 6-bolt

– p.17

For Trikes – - p. 16-17

SON XS-M has a stub axle for one-sided fitting. There are many versions for various trikes and trailers.



SON XS-M

For Folding Bikes — p. 18-19 SON XS is suitable for the Bromton folding bike with small wheels and narrow forks. For semi radial spoke pattern.



SON XS

SON XS klassik

Hub Dynamos for Standard Forks

 $(100 \text{ mm} / \emptyset 9 \text{ mm} \text{ QR})$

Standard dimensions for bicycle forks have been 100 mm width, 9 mm axle diameter for many years. Quick releases and skewers were 5 mm. That is why there is the largest range of SON hub dynamos for this type of fork.

SON hub dynamos for rim brakes (non-disc) are symmetric and are of different flange spacing:

SONdelux: narrow (50 mm)

SON 28: medium (62 mm)

SONdelux wide body: wide (68 mm)

For disc brakes there are center lock mount hubs and 6-bolt mount hubs. The disc hub dynamo housings are narrow (62 mm flange spacing) and slightly asymmetric.

Delivery includes: hex skewer (75200/75202)



non-disc



SON 28

non-disc | 440 g | 62 mm flange spacing

polished silver anodized black anodized	32 hole 36 hole 32 hole 36 hole 32 hole 36 hole	303202 303602 303292 303692 303212 303612
	RRP in GER	249.00€
red anodized blue anodized orange anodized light green anodized	32 hole 36 hole 36 hole 36 hole 36 hole	303222 303622 303642 303662 303672

RRP in GER 259.00 €



SONdelux

non-disc 390g 50 m	m flange spacing	5
polished	20 hole	262002
•	24 hole	262402
	28 hole	262802
	32 hole	263202
	36 hole	263602
silver anodized	32 hole	263292
	36 hole	263692
black anodized	20 hole	262012
	24 hole	262412
	28 hole	262812
	32 hole	263212
	36 hole	263612
	RRP in GER	249.00€
red anodized	32 hole	263222
	36 hole	263622

RRP in GER 259.00 €



	RRP in GER	259.00€
black anodized	32 hole	263218
	36 hole	263608
	32 hole	263208
polished	28 hole	262808
non-disc 410g 68 m	im flange spacing	5





SON 28 disc 6-bolt

460 g 50 mm flange space	cing	
polished	32 hole	313202
	36 hole	313602
silver anodized	28 hole	312892
	32 hole	313292
	36 hole	313692
black anodized	28 hole	312812
	32 hole	313212
	36 hole	313612
	RRP in GER	269.00€
red anodized	RRP in GER 28 hole	269.00 € 312822
red anodized		
red anodized	28 hole	312822
red anodized blue anodized	28 hole 32 hole	312822 313222
	28 hole 32 hole 36 hole	312822 313222 313622

RRP in GER 279.00 €



430 g 50 mm flange spaci	ng	
polished	32 hole	323202
	36 hole	323602
silver anodized	32 hole	323292
	36 hole	323692
black anodized	28 hole	322812
	32 hole	323212
	36 hole	323612
	RRP in GER	269.00€
red anodized	32 hole	323222
	36 hole	323622
blue anodized	36 hole	323642
	RRP in GER	279.00€



400 g | 50 mm flange spacing

polished black anodized	32 hole 32 hole	273202 273212
	RRP in GER	269.00€
red anodized	32 hole	273222
	RRP in GER	279.00€

*center lock: center lock rotor mounting standard licensed by Shimano





Hub Dynamos for Thru Axles

Thru axle hubs were originally developed for mountain bikes. They allow a precise and secure fastening of the wheel and also stiffen the fork. In the meantime, manufacturers of touring bikes, fat bikes and gravel bikes are increasingly using this pioneering technology.

There are SON hub dynamos for 12 mm or 15 mm thru axle in 100 mm standard width for disc brakes. For particularly stiff and stable wheels, there are also variants in Boost Standard (110 mm width).



for 12 mm thru axle



SON 28 12 disc 6-bolt

for 12 mm thru axle | 400 g

polished	32 hole	413200
black anodized	24 hole	412410
	28 hole	412810
	32 hole	413210
	36 hole	413610

RRP in GER 299.00 €

SON 28 12 disc center lock*

for 12 mm thru axle 420 g		
silver anodized	32 hole	403290
black anodized	28 hole	402810
	32 hole	403210
	36 hole	403610
	RRP in GER	299.00€
red anodized	RRP in GER 28 hole	299.00 € 402820
red anodized		
red anodized	28 hole	402820

RRP in GER **309.00 €**

SONdelux 12 disc center lock*

for 12 mm thru axle | 400 g

	RRP in GER	299.00€
	32 hole	393210
	28 hole	392810
black anodized	24 hole	392410
silver anodized	32 hole	393290

*center lock: center lock rotor mounting standard licensed by Shimano



available from Dec 2021





SON 28 12 110 disc 6-bolt

for 12 mm thru axle Boost Standard (110 mm width)

black anodized

24 hole42241028 hole42281032 hole423210

RRP in GER **319.00 €**

SON 28 12 110 disc center lock*

for 12 mm thru axle Boost Standard (110 mm width)

	24 hole 28 hole 32 hole	432410 432810 433210
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RRP in GER 319.00 €

*center lock: center lock rotor mounting standard licensed by Shimano



for 15 mm thru axle –



SON 28 15 disc 6-bolt

	RRP in GER	329.00€
blue anodized	32 hole	333242
	36 hole	333622
red anodized	32 hole	333222
	RRP in GER	319.00€
	36 hole	333612
	32 hole	333212
black anodized	28 hole	332812
	36 hole	333692
silver anodized	32 hole	333292
polished	32 hole	333202
for 15mm thru axle 460 g		



SON 28 15 110 disc 6-bolt

for 15 mm thru axle | 480 g Boost Standard (110 mm width)

silver anodized black anodized	32 hole 28 hole 32 hole 36 hole	383290 382810 383210 383610
	RRP in GER	319.00€
red anodized	32 hole 36 hole	383220 383620
blue anodized	32 hole	383240
	RRP in GER	329.00€

Hub Dynamos for Trikes

Most trikes have stub axle for one-sided fitting and disc brakes. Axle length, type of mounting and disc rotor positions differ from the various brands, therefore we offer many different variants of the SON XS-M.



SON XS-M

520 up to 570 g

2

3

4

5

6

1 for HP Velotechnik

for slotted axle mount axle end Ø 12 x 42 mm black anodized	36 hole	220611
for Anthrotech axle end Ø 12 x 40 mm black anodized	32 hole	221211
for ICE Trike axle end Ø 12 x 46 mm polished	36 hole	223601
for Steintrike axle end Ø 12 x 54 mm black anodized	32 hole	224211
for KMX axle end Ø ½" black anodized	32 hole	226210
for Christiania C axle end Ø 12 x 69 mm	argo Bike	
polished	36 hole	227601
for Aidoo Trailer axle end Ø 12 x 13.6 mm polished	36 hole	228601
for Catrike		
axle end Ø 20 mm black anodized black anodized	32 hole 28 hole	223211 222811
	RRP in GER 3	49.00€

 Accessories for SON XS-M

 Male connector

 SON XS-M

 72100

 RRP in GER 7.00 €

Hub Dynamos for Fatbikes

Fatbikes need electricity, too! Their extra wide forks need 135 mm hubs. For those we build SON 28 135. Flange spacing is 68 mm, symmetric. The rotor is positioned at 10.4 mm (standard for front disc brakes) or 15.3 mm (standard for rear disc brakes) away from the dropout. The version for 15 mm thru axle is 150 mm width.



SON 28 135 VR disc 6-bolt

135 mm width | 530 g standard for front disc brakes (10.4 mm) axle end Ø 9 mm

black anodized	32 hole	313219

RRP in GER **299.00 €**

SON 28 135 disc 6-bolt

135 mm width | 530 g standard for rear disc brakes (15.3 mm) axle end Ø 10 mm

silver anodized	32 hole	313298
black anodized	32 hole	313218

RRP in GER 299.00€

SON 28 15 150 disc 6-bolt

for 15 mm thru axle | 150 mm width 530 g

black anodized	32 hole	373210
	RRP in GER	369.00€

Hub Dynamos for Folding Bikes

There is more to a folding bike like the Brompton than just a practical means of transportation. They are chic, represent a life style and you can customize them individually. There are SON XS hubs for Brompton folding bikes with 74 mm fork width and 8 mm axle diameter. Since 2013, SON XS has a smaller housing for straight pull spokes, which are slightly angled during semi radial spoking in the wheel.

Three standard colours as well as various à la carte colours are available. For lovers of the old design the SON XS klassik is still available.





SON XS for Brompton

semi radial | 350 g | axle end Ø 8 mm

	RRP in GER	269.00€
à la carte	28 slots	342882
	RRP in GER	229.00€
	28 slots	342862
black anodized	20 slots	342062
	28 slots	342892
silver anodized	20 slots	342092
	28 slots	342872
polished	20 slots	342072

SON XS klassik for Brompton

	RRP in GER	229.00€
polished	28 hole	232852
400g axle end Ø8mm		

SON XS à la carte

Similar to the varied colour selection of the Brompton folding bikes, the SON XS can be individually configured. The side parts can be selected in polished as well as silver and black anodized. For the two centre parts there is a choice of anodized colours: silver, black, red, blue, orange, gold, dark green and pink. Create your personal Brompton with a SON XS hub and Edelux II headlight in matching colours and an elegant SON Rear Light.

Semi Radial Spoke Pattern

An extra compact and elegant design is realized by using straight pull spokes. A purely radial spoke pattern would be critical with hub dynamos, as the pole sensitivity of the generator may cause audible vibrations of the spokes. To avoid vibrations we developed the semi radial spoke pattern: we positioned the hub slots for the spokes in such a way that, when lacing spokes, the straight pull spokes bend slightly as soon as they are tensioned. We build such wheels with 28 spokes or just 20 spokes arranged in parallel at the rim.

See Brompton wheels on p. 20



Accessories for Brompton Bikes

SON Easy Wheels

For Brompton folding bike Set of 2 wheels Ø 60 mm uncoated

uncoated	74003
black anodized	74004

RRP in GER 49.00 €



Wheels

In Germany we offer a wide selection of hand-built wheels with rims 26" to 29".



Especially for Brompton folding bikes, we prefer to supply finished wheels, as the spoking of the semi radial SON XS hub dynamos requires some experience. The new Brompton wheels with 20 spokes and specially drilled rims from Ryde are lighter and even more elegant than the wheels with original Brompton rims.

Wheel for Brompton 20 Spokes

Rim: Ryde Snyper DB spokes, colour same as on rim Nipples: silver Weight: 730 g silver rim SON XS polis

SON XS polished	43170
SON XS silver anodized	43172
SON XS black anodized	43171
	SON XS silver anodized

RRP in GER 279.00 €

Wheel for Brompton 28 Spokes

Rim: Brompton Original DB spokes, colour same as on rim Nipples: silver Weight: 770 g

silver rim	SON XS polished SON XS silver anodized	43140 43110
	SON XS black anodized	43141
	RRP in (GER 279.00€
silver rim	SON XS à la carte	43113
	RRP in C	GER 319.00€
black rim	SON XS polished	43150
	SON XS silver anodized	43152
	SON XS black anodized	43151
	RRP in 0	GER 299.00€
black rim	SON XS à la carte	43116
		220 00 E

RRP in GER 339.00€

Tools for wheel building

SON Nippleseat Gauge

for quick and easy measurement of the rim diameter (nippleseat diameter).

schwarz eloxiert

72910

RRP in GER 89.00 €

500 510 520 530 540 550

560 570

Accessories for Hub Dynamos



Front hex skewer

Hex skewers make a good compromise between quick releases and locking skewers. Our skewers for 100 mm width have steel bolts of 12.9 hardness category at SW 5 mm and a weight of 30 g.

for 100 mm width for 100 mm width	silver black	75200 75202
	RRP in GER	6.00€
for Dahon, 74 mm width	silver	75205
	RRP in GER	6.00€
for Brompton, 74 mm width, stainless steel nut and bushing	silver	75204
	RRP in GER	9.00€

Spokes

Spokes available on request. To find out about spoke length see: www.nabendynamo.de – Service – Spoke Length



Caps

for SONdelux disc center lock / SON 28 disc center lock

polished	75850
black anodized	75851
red anodized	75852

RRP in GER **11.00 €**

Axle-Adapter 12/9 mm QR

makes it possible to use a 12 mm thru axle hub in a standard 9/100 mm QR fork

19g

black anodized 75230

RRP in GER 17.50 €



Headlights





All SON headlights are optimized for durability, so we offer 5 years guarantee. The solid design housing looks noble and withstands even a commuter's rough treatment. Just as robust are the socket, mineral glass lens and easy-to-use switch. The SON Coaxial Cable safely conducts electricity. Good sealing and potted electronics prevent internal damage.

- **High Durability** with potted electronics, robust housing and SON Coaxial Cable
- **Optimal LED-cooling** with aluminium-housing and copper heat sink
- **Optimal illumination** with "IQ-TEC" mirror from Busch & Müller
- conforms with German legal regulations StVZO
- made in Germany | 5 years guarantee

Lumen or Lux?

Headlight manufacturers state the brightness of their products in Lumen or Lux. The Lumen value of an LED indicates the total amount of light produced or emitted (the luminous flux). On the other hand, a Lux value indicates the brightness of the brightest beam (max. illuminance, measured as standard at a distance of 10 m). At SON, we prefer to name the illuminance (Lux value). The problem with Lumen values is that they are very difficult to measure and therefore often only the values of the LED are given under optimal conditions. This leads to high and unrealistic data of some manufacturers. In addition, it is completely unconsidered where the light shines to.

Optimum Illumination

But even the lux value alone does not say much about a headlight. Much more important is what the entire light field looks like that hits the road. While the laboratory likes to work with wall projections, the lighting of the road from a bird's eye view or driver's perspective is more descriptive. The requirements vary depending on the application, so it is advisable to give it a try.

The ideal light beam is layered. On the wall projection there is a very bright stripe at the top edge (high Lux value) with sharp cut-off line. To the bottom the light continuously becomes darker. Correctly adjusted, such a headlight illuminates quite evenly with very wide views.



Headlights for Hub Dynamos

Edelux II









Wiring

For connection to the hub dynamo, the Edelux II has a coaxial cable which is soldered and potted in the spotlight. The cable is either already fitted for connection to a SON hub dynamo or the connectors are separately enclosed. The Edelux II can also be easily connected to other hub dynamos.

The rear light is connected to the Edelux II with a spade connector and a ring terminal for ground. The result is a particularly robust and exchange-proof connection. Ready-made rear light cables are available for common rear lights (p. 31). On a 6Volt - 3Watt hub dynamo the Edelux II may be operated without a rear light.





Illumination (in Lux) with a choice of hub dynamos



Edelux II cyclist's field of vision

Edelux II distributes light in a wide and very long and even light field. It has a sharp cut-off line to the top as required for road traffic.

Edelux II

More Light, Improved Light Distribution

Elegant and reduced to the essential: a wide light beam, evenly distributed from near to far end provides best view on dark roads. Edelux II has a high-intensity LED and distributes light perfectly well on the road surface using the Busch & Müller premium mirror. The light beam is very wide, focusses well in the distance and distributes evenly in front of the bike. This kind of light distribution is ideal on dark roads as well as in road traffic.

The perfect cooling of the LED and the non-reflecting lens increase brightness to more than **100 Lux**. The Edelux II has a very bright capacitor standlight and an automatic switch-on (sensor). A special feature on the Edelux II is its extraordinary robust construction. Its housing is turned and milled of aluminium. The magnetic switching ring is easy to use, the coaxial cable is elegant and extremely robust.

- **high light output** thanks to optimal LED-cooling with copper heat sink and aluminium-housing
- **easy handling** with magnetic switch and automatic light sensor
- **long lifetime** with potted electronics, robust housing and coaxial cable
- bright standlight
- conforms with German legal regulations StVZO
- made in Germany | 5 years guarantee

VSF. all-ride 2020-2023 BESTES LICHTFELD Zertifiziert für höchste Qualität und Nachhaltigkeit

> Standard EdeluxII are designed to be powered by hub dynamos with 6Volt AC output. Even at low speed you will have uniform and flickering-free light. Illuminance increases to more than 100Lux at high speed. Its standlight is so bright that it is not only suitable for being seen, and switches off automatically after 4 minutes.

Weight: 85 g

Delivery includes:

Bracket Edelux (75520) and Reflector (75760)



Edelux II

140 cm cable: connectors separately enclosed

60 cm cable: connectors fitted, for fork mount

36 cm cable:

connectors fitted, for Brompton, with Bracket for Brompton (75504)

polished	140 cm	681406
	60 cm	680605
	36 cm	680305
silver anodized	140 cm	681496
	60 cm	680695
	36 cm	680395
black anodized	140 cm	681416
	60 cm	680615
	36 cm	680315

RRP in GER **159.00 €**

red anodized	140 cm	681426
	60 cm	680625
	36 cm	680325
blue anodized	140 cm	681446
	60 cm	680645
	36 cm	680345
orange anodized	140 cm	681466
	36 cm	680365
dark green anodized	140 cm	681456
	36 cm	680355
gold anodized	140 cm	681436
	36 cm	680335
rosa anodized	140 cm	681486
	36 cm	680385
light green anodized	140 cm	681476
	RRP in GER	169.00€



Edelux II with Coaxial Adapter

with SON Coaxial Connector fitted, SON Coaxial Adapter included

polished	100 cm	681009
	60 cm	680609
silver anodized	100 cm	681099
	60 cm	680699
black anodized	100 cm	681019
	60 cm	680619

RRP in GER 179.00 €



cable with SON Coaxial Connector Male fitted

black anodized

680619A

681416A

RRP in GER **199.00 €**









Edelux II upside down

Delivery: w/o bracket, w/o reflector

switched, rear light connection on threaded bushing, w/o automatic light senso

	RRP in GER	189.00€
black anodized	140 cm	680010
polished	140 cm	680000

w/o switch, for use with separate switch, w/o automatic light senso

polished	w/o cable	680001
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RRP in GER **179.00 €**

Headlights for Pedelecs

The new Edelux DC headlights are approved for pedelec systems (up to 25 km/h) with light output between 5 and 15 Volts. Due to higher power input, 5 to 6 Watts, they achieve up to 170 Lux brightness. The particularly uniform illumination enables best visibility both in the near field as in far distance.

- Water- and dust protection due to a membrane ventilating system
- New connecting technology for different cables: The cable can be easily and directly clamped to the headlight, without stripping.
- **Large-area lightfield** with "IQ-TEC" mirror from Busch & Müller
- Optimal LED-cooling with aluminium-housing and copper heat sink







ENDUX DC TO	NEW	Edelux DC 170	VSFall-ride
Con Made In Cruth		For 5 to 15 volts direct current (DC) 6 Watts 170 Lux	BESTES LICHTFELD Zertifiziert für höchste Qualität und Nachhaltigkeit
Ethius DC Tro		black anodized uncoated	630010 630080
EREMAN DC TO		RR	P in GER 189.00 €
		red anodized blue anodized	630020 630040
Made In St. Made In Collins		RR	P in GER 199.00 €



Edelux DC 150

For Neodrives V2 or V5 battery For 5 to 15 volts direct current (DC) 5 Watts | 150 Lux black anodized

black anodized	630010N
	RRP in GER 189.00 €
red anodized	630020N
	RRP in GER 199.00 €

For older pedelecs and for lovers of the polished design Edelux II DC (for 6 to 75 volts) is still available



Edelux II DC for 6 to 75 Volts

For 6 to 75 Volts DC. 3 Watts | 90 Lux With coaxial connection cable (140 cm), switch and 6 Volts output for rear light.

Delivery includes:

Bracket Edelux (75520) and Reflector (75760)

polished	140 cm	681403
silver anodized	140 cm	681493
black anodized	140 cm	681413

RRP in GER **169.00 €**

SON Rear Light

SON Rear Light is of minimal dimensions. This way it fits where common rear lights with integrated reflectors are either lack a suitable mounting position or designwise don't fit. The housing is made of anodized aluminium, lens and electronics are potted. The SON Coaxial Cable for headlight connection is firmly fixed inside the housing (cable 190 cm, bare ends, connectors separately enclosed).





rack mount

50 mm screw spacing | 20 g (weight w/o cable)

black anodized silver anodized	clear lens red lens clear lens red lens	69152 69162 69172 69182
red anodized		69132 R 59.00 €
blue anodized	clear lens	69142
orange anodized	clear lens	69102
light green anodized	clear lens	69112
	DDD in CE	

RRP in GER 69.00 €

seat post mount

Ø 26 up to 31.8 mm | 35 g (weight w/o cable)

black anodized silver anodized	clear lens red lens clear lens red lens	69252 69262 69272 69282
	RRP in GE	R 74.00€
red anodized blue anodized orange anodized	clear lens clear lens clear lens	69232 69242 69202
light green anodized	clear lens	69212

RRP in GER **84.00 €**

mudguard mount

high mounting position (25 degree) | 40 g (weight w/o cable)

polished / red lens	narrow profile	69316
polished / red lens	wide profile	69326
black anodized / clear lens	narrow profile	69335
black anodized / clear lens	wide profile	69345
black anodized / red lens	narrow profile	69355
black anodized / red lens	wide profile	69365

RRP in GER 84.00 €

rack tube mount

Tube Ø 10 mm | 40 g weight w/o cable) black anodized / red lens

69662

RRP in GER **74.00 €**

Rear Lights





- long lifetime due to solid aluminium housing and coaxial cable
- protected against water ingress and mechanical impact by potted electronics
- with standlight
- conforms German legal regulations StVZO
- made in Germany | 5 years guarantee

for Pedelecs

Rear Lights for Pedelecs

SON Rear Light DC for Pedelecs can be connected directly to electric bike systems with output from 6 Volts up to 12 Volts direct current (DC).

With electric bike systems using 6Volts direct current, SON Rear Lights for dynamo-powered lighting may be used likewise.



SON Rear Light DC for 6-12 Volts

rack mount

50 mm screw spacing | 20 g (weight w/o cable)

black anodized	clear lens red lens red lens	69452 69462 69482
	RRP in GER	59.00€
red anodized blue anodized	clear lens clear lens	69432 69442

RRP in GER 69.00 €

seat post mount

Ø 26 up to 31.8 mm | 35 g (weight w/o cable)

black anodized silver anodized	clear lens red lens red lens	69552 69562 69582
	RRP in GER	74.00€
red anodized blue anodized	clear lens clear lens	69532 69542

RRP in GER 84.00 €

Accessories for Headlights



White Reflex Reflector

for Edelux and Edelux II 75760

RRP in GER 6.50 €



Switching Ring

for Edelux and Edelux II 75611 RRP in GER **2.50 €**

Headlight Brackets

Solid attachment and precise adjustment are vital for bicycle headlights. Edelux II mounts with a 6 mm bolt at its aluminium socket. We offer metal headlight brackets from various manufacturers for mounting position either at the fork crown or on the handlebars. We developed two own models: Bracket Schmidt delux and Bracket Schmidt delux long for mounting on the handlebars with tightening straps by Rixen & Kaul. They perfectly match the shape and surface of the Edelux II.



Bracket Schmidt delux

Aluminium milled, for handlebars up to 31.8 mm, rotatable around the transverse axis

polished black anodized		75531 75532
	RRP in GER	25,00€



Bracket Schmidt delux long

Aluminium milled, for handlebars up to 31.8 mm, rotatable around the longitudinal axis

black anodized	75534
polished	75533
	-

RRP in GER **25,00 €**







Bracket Ec	lelux	
36 x 50 mm (L	xH)	
stainless		75520
	RRP in GER	3.80€
black		75521
	RRP in GER	5.00€



Bracket Edelux long

58 x 49 mm (LxH)	
stainless black	75522 75523

RRP in GER 5.00 €

Bracket stainless Canti

56 x 46 mm (LxH) 75501

RRP in GER 2.70 €



Bracket for Brompton stainless, 53 x 18 mm (LxH)

75504

RRP in GER 3.30 €

75500

75507

RRP in GER 2.60 €



Bracket milled

Alu 6061 T6, black anodized, 33 x 37 mm (LxH), incl. bolts, mass contact with ring terminal not possible

RRP in GER 21.00 €



Bracket handlebar mount

synthetic, black, for handlebars up to Ø 26 mm, Riese & Müller

75505

RRP in GER 11.90 €

Dimensions of the headlight brackets

The specified dimensions (length/ height) are measured from the bolt of the fork head to the bolt of the headlight, vertically or horizontally in relation to the contact surface on the fork. The "Bracket Edelux" and "Bracket Edelux long" are made of 4mm stainless steel wire and can be flexed appropriately.



Accessories for Headlights



Reflector

Busch + Müller 313 / 3Z 69190

RRP in GER 5.30 €



Adapter

stepped	69192
flat	69191
for reflector 313 / 3Z	
for rack mount	

RRP in GER **4,50 €**

Wiring

SON Coaxial Cable

It is only through the wiring that a high-quality hub dynamo and the corresponding lights become a reliable lighting system. The SON Coaxial Cable was specially developed for this purpose and has been proven for decades.



Crimping

SON hub dynamos have robust 4.8 mm spade connectors. These crimp connectors conform to the common technique for connections on high-end bike lighting systems. But our 4.8 mm connectors are more solid and easier to use compared to standard 2.8 mm connectors.

Well-crimped, shrunk over and slightly greased the result is a very reliable connection which is proven in rough everyday use.







Professional Wiring Tools

Suitable tools make wiring much easier. We provide high-quality tools for SON Coaxial Cable and common wires.



Crimping Tool for spade connectors and ring terminals 72900



Automatic Wire Stripper special for coaxial cable, Knipex No. 12 21 180 72903



Crimping Tool for spade connectors and ring terminals, Knipex No. 97 52 14

72904



Side Cutters Super-Knips

125 mm, Knipex No. 78 61 125 **72905**

SON Coaxial Cable

2 x 0.5 mm², outer Ø 3 mm, polyurethane, black



100111	2.00 € / m
10 m 100 m	72010 72011
5 m	72005
5 m	7200



Cable for Rear Light

190 cm cable, to connect a rear light with Edelux II headlight

connections for	72090
rear light fitted	
connections for rear	72091
light separately enclosed	

RRP in GER **11.00 €**

Crimp Connectors

brass tin-plated, uninsulated



Spade female 2.8 x 0.5 mm Pack of 100 pcs

Pack of 100 pcs Pack of 500 pcs	72121 72125
Spade male 2.8 x 0.5 mm	
Pack of 50 pcs	72135

Pack of 50 pcs	72135
Pack of 100 pcs	72131



Spade female 4.8 x 0.8 mm		
Pack of 100 pcs	72141	
Piggy-back spade 4.8 x 0.8 mm		
Pack of 20 pcs	72142	
Spade male 4.8 x 0.8 mm		
Pack of 20 pcs	72152	



Ring terminal 3 mm	
Pack of 50 pcs	72235
Ring terminal 5 mm	
Pack of 50 pcs	72255
Pack of 100 pcs	72251
Ring terminal 6 mm	
Pack of 50 pcs	72265
Pack of 100 pcs	72261
Terminal adapter 2.8 x 0.5 mm	
for M6, stainless	
Pack of 20 pcs	72272



Box with Connections

spade connectors, heat shrink tubing and ring terminals 72800

RRP in GER **46.00 €**

Heat shrink tubing

Heat shrink tubing 3:1 polyolefine, black

3.2 x 24 mm 3.2 x 32 mm	
3.2 x 500 mm	
4.8 x 24 mm	
4.8 x 500 mm	



Pack of 100 pcs	72331
Pack of 100 pcs	72334
Pack of 10 pcs	72332
Pack of 100 pcs	72341
Pack of 10 pcs	72342

SON Coaxial Connector System Appropriate Wiring

Solid coaxial wiring solutions has always been available from SON. The lately developed SON Coaxial Connectors complete the system. They are especially comfortable and enable wiring of all kinds. Wherever requested, the SON Coaxial Connector can be used to provide a solid and yet convenient separation.





RRP in GER 6.50 €

INDIVIDUAL

RRP in GER 13.00 €

Cables are available ready-made with connectors either fitted or as separate parts for customized wiring.

SON Coaxial Adapter

RRP in GER 6.50 €

The SON Coaxial Adapter allows to use the SON Coaxial Connector on a hub dynamos. When taking out the front wheel you can plug and unplug the headlight cable easily.



SON Coaxial Adapter incl. Coaxial Connector Male for soldering

72630

RRP in GER 22.00 €



SON Coaxial Junction Box

Easy connection with a charging device

The SON Coaxial Junction Box was developed for permanent or occasional connection of a charging device with a hub dynamo lighting system. It is mounted on the headlight cable in an easily accessible position. A second cable to the dynamo connectors is no longer necessary.





cable w/o connectors	72631
RRP in GER	22.00€
cable ready-made with SON Coaxial Connector and Coaxial Adapter	72635

80 cm cable,

D

SON Coaxial Cable with Coaxial Connector Male fitted on one side		
60 cm cable	72606	
RRP in GER	11.00€	
140 cm cable	72607	
RRP in GER	12.00€	



SON Coaxial Cable Connection for B&M charging device

80 cm cable, to connect a B&M charging device with SON Coaxial Junction Box

72605

RRP in GER 18.00 €



Box with Assortment of Coaxial Connectors 72650

RRP in GER 200.00 €



Soldering Device 72906

RRP in GER 39.00 €

Self-Connecting System

As an alternative to the various plug connections on the hub dynamo, SON offers a particularly elegant solution: Self-Connecting System (SL). The contact areas on hub and forks themselves make the connections. Ground connection is made at one fork end, phase connection at the other fork end with a contact plate insulated by an insulating plate in the dropout.

The SL system requires a specially reworked fork. This means retrofitting is not possible. We offer a wide range of standard 9 mm dropouts and 12 mm thru axle fork ends as well as suitable contact parts for framebuilders who build steel forks. A few manufacturers offer forks prefabricated with SL dropouts in series.

The most demanding bicycle manufacturers already use the SL system on their bicycles.

Al fork with reworked dropout and integrated contact parts

SL Hub Dynamos

Almost every SON hub dynamo is available as SL version without connectors.

insulated connection with contact parts in the fork dropout

ground connection



Dropouts stainless steel, for standard 9 mm forks and 12 mm thru axle forks



Contact Parts Insulating plate and contact plate are placed in 3 boring holes in the

right dropout.



Tools

Reworking standard 9 mm forks to take up SL parts is possible with a special tool set.

See SL products at www.nabendynamo.de - Products - Self-Connecting System

SON HUB DYNAMO CONNECTIONS



Spade Connectors

the proven and reliable connection technology with 4.8 mm spade connectors



SON Coaxial Connectors

convenient plugging in and plugging out enable SON Coaxial Adapter and Coaxial Connector



Self-Connecting System

particularly elegant, plugless contacting via the contact surfaces of the fork





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