



# Light range 2013

## Vehicle lamps



SEE THE WORLD IN A NEW LIGHT





A new appearance for the OSRAM website.



## No diversions on the road to the best automotive lighting – [www.osram.com](http://www.osram.com)

All the products, important applications, practical tools, useful services, current trends, interesting knowledge: the new OSRAM website is all about the entire world of light – but with a more modern, clearer design. And something for all car-lovers: The Automotive area no longer need be reached via another section, but can now be accessed directly from the home page with a single click.

### **Automotive Special – special products deserve special attention**

The Automotive area cannot only be reached more quickly, but, with its special contents, tools and services, is now more important than before. Whether you want powerful and stylish lighting, the latest trends or news hot off the press: Automotive Special offers you and your customers a wide range of information and options to stay up to date in the field of automotive lighting and to have interesting new experiences.

### **Automotive LED microsite – all about LEDs**

Experience, in an interactive manner, the innovative LED solutions you can use to give your vehicle a sense of style, both inside and out - from daytime running lights, through trunk, numberplate, instrument and glove box lighting through to accessories.

### **Automotive Online tool – everything you need**

The complete list of spare vehicle lamps - now including interior lighting: select the make, model and construction year of your car, truck or motorcycle and get an overview of the matching OSRAM lamps and their article numbers.

### **Automotive lighting blog – the new hot topic**

For specialists in the field of automotive lighting, and those who would wish to be so - continuous up-to-date and updated exchange of information and opinions under various headings such as “News”, “Innovation”, “Technology”, “Law” or “Campaigns”.

### **“Vehicle Light” app – for smartphones**

To ensure that you always know which lamp type is required for the vehicle, even while on the move – from dipped and full-beam headlights through indicator and brake lights to reversing lamps. For passenger car drivers and motorcyclists as well as numerous models for the most important truck manufacturers.

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1) These products do not have ECE approval. This means that they cannot be fitted in "normal" headlights or additional headlights if the vehicle is to be used on public highways. | OFF-ROAD only. | Not for use on public roads.

All OSRAM 12 and 24 V halogen automotive lamps are UV-reduced, can replace existing lamps and meet all the relevant standards, e. g. ECE R 37 (with the exception of OFF-ROAD lamps).

# Our ideas lead the way

The mobility concepts for the future are based firmly on vehicles with low emissions but high performance. As the world market leader in automotive lighting, OSRAM is setting the pace in researching and developing new types of lighting systems. The result is a series of technologies that are economical yet powerful, refined yet simple, enhancing both comfort and safety on the roads.

There are numerous reasons why OSRAM leads the world in automotive lighting. Not only do we supply innovative products, we actively support retailers and workshops with high-performance sales logistics and reliable delivery service. Training courses and intensive advertising and PR activities ensure optimal consulting quality and higher sales.

On the spare parts market too, our products meet the same high quality standards that automobile manufacturers demand for their new cars (as per Directive EU 1400/2002).





**PLUS**  
Extra Lifetime

### Optimum light for faster reactions

NIGHT BREAKER® PLUS is the ideal lamp for drivers who want to drive more safely with more light and stay relaxed. With patented blue ring coating for less reflected glare, this halogen lamp produces up to 90 % more light on the road, has a beam that is up to 35 meters longer and provides light that is up to 10 % whiter. The longer beam means that drivers can spot obstacles and dangerous situations much sooner. It focuses the light 75 to 100 meters ahead of the vehicle – precisely where the driver needs it. The extra reaction time can be the difference between life and death! Now with up to 50 % longer life compared with the first-generation NIGHT BREAKER®.

### The beauty of light – XENARC®

The fascinatingly bright xenon light continues its triumphant march. Having conquered the top-of-the-range market, it has now moved into the mid-range market. Gas discharge lamps with their innovative arc technology generate up to 100 % more light than halogen lamps at 300 % greater luminous efficacy. Modern lighting concepts from OSRAM offer far more than safe and comfortable driving. They underline personal lifestyles, demonstrate environmental awareness and stand for a new sensation in light. Besides the XENARC® ORIGINAL and XENARC® COOL BLUE® INTENSE with their particularly high-contrast blue xenon light for design-conscious drivers, OSRAM can now offer the most powerful xenon automotive lighting in the world, in the form of the new XENARC® SILVERSTAR®: you couldn't have more light!

### LEDs are extremely popular – with both manufacturers and drivers

LED technology is also gaining ground in automotive lighting. In order to make the best use of the turnover potential of this huge future market, OSRAM developed the world's first standardized LED system in 2005 in the form of Joule, which

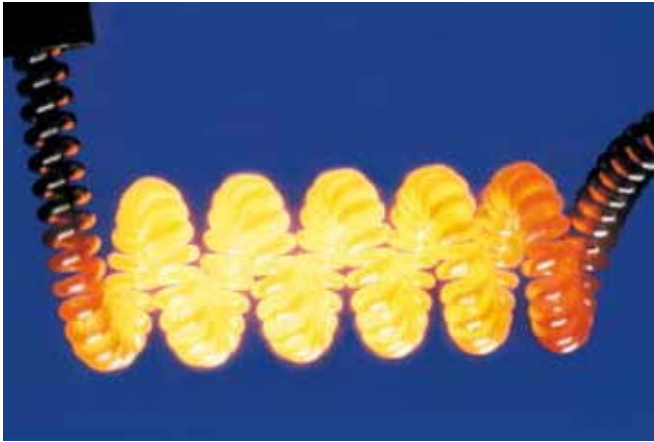


is now being used by leading car manufacturers for their new models. And now OSRAM is clearing the way for LEDs to take over the mass market: The new OSRAM LED Automotive product range offers drivers innovative, stylish products with a high light effect and user value – from the complete headlight kit, thru retrofit lamps for interior lighting to modern reading lights or flashlights.

### Freedom of design par excellence. OSRAM SNAP<sup>IN</sup>LITE®

In addition to LED technology, OSRAM offers its partners a series of innovations with great market opportunities. OSRAM SNAP<sup>IN</sup>LITE®, which has been approved for use throughout the world, has an intelligent base design that makes changing lamps very easy. The lamp can be installed without involving any cables, separate connectors or retaining springs. The OSRAM SNAP<sup>IN</sup>LITE® concept provides great freedom in the development of new, multifunctional headlight models. The low base height and particularly small reflectors save space and weight, opening up a wide range of possible applications.





## Shining a light on OEM quality

“Total Quality Management” (TQM) is the corporate principle on which OSRAM defines its quality standards. It covers the demands that we place on the finished products, components and parts, as well as on the requirements for optimizing our processes and organization. Compliance with this principle is confirmed by the fact that our quality management system has been certified to ISO 9001 and our environmental management system to ISO 14001.

### **OSRAM manufactures for OSRAM**

One of our principles is to develop as many of our own production facilities as possible. We manufacture major pre-materials, develop our own production processes and construct complex, computer-controlled production plants. Development and manufacture of all products at OSRAM is certified to DIN EN ISO 9001.

The Business Segment “Automotive Lighting” and all the lamp filaments produced for this Business Segment are certified according to TS 16949 (special quality management requirements for automotive suppliers).

### **Our aim is to get better and better**

To keep our strategies and activities in perfect tune with the needs of our customers, we are in close contact with all our lobby groups. What’s more, we conduct extensive and targeted opinion polls among customers in 29 different countries each year. In this way, we are able to improve the quality of our products and services and defend our number one position in the face of tough international competition.

Vehicle lamps from OSRAM are renowned for their outstanding precision, reliable operation and impressive durability. They put the ideal amount of light on the road without blinding oncoming drivers<sup>1)</sup> and therefore contribute greatly to road safety.

### **OEM quality**

All the lamps comply with the quality requirements of car manufacturers and therefore surpass the requirements of European standards. You can always rely on OSRAM lamps.

1) If used as specified

# Sustainable production for the sake of the environment

Sustainability is an essential part of our corporate philosophy. OSRAM therefore uses as few hazardous substances as possible, saves energy at every opportunity and reduces the amount of packaging material wherever it can. Environmental protection is much more for us than just meeting statutory requirements. Our comprehensive environmental management system ensures that our principles are always put into practice. As a member of the United Nations Global Compact, OSRAM is committed to ecologically and socially sustainable development throughout the world.

## **Hazardous substances**

There are strict restrictions on the use of hazardous substances in all areas of the company – from development and production to the cleaning processes in the operational facilities. OSRAM makes use of highly developed technologies to reduce the use of hazardous substances to the absolute minimum necessary to ensure correct operation.

## **Energy**

In terms of energy savings, OSRAM has two claims to fame. First, the company itself saves on resources by developing and operating safe and clean plants that need less and less energy. Second, it develops energy-saving products that meet the needs of eco-conscious customers.

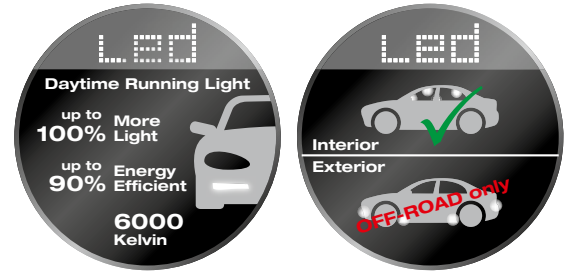
## **Packaging**

OSRAM makes use of the latest eco-friendly developments for its packaging. The majority of products are packaged in cardboard boxes or blister packs and then in corrugated cardboard cartons as packaging units. Therefore, the recycling quotas here are particularly high: 80 % for cardboard boxes and blister packs, and between 70 % and 90 % for corrugated cardboard cartons.



For more information on light and the environment, go to our homepage at [www.osram.com](http://www.osram.com)





# OSRAM LED

## Stylish highlights for interiors and exteriors



More style, modern, brighter light and simple retrofitting: The LED daytime running light kit and the LED retrofit lamps from OSRAM are the choice of drivers, who place emphasis on design and tuning.

### OSRAM LED LIGHT@DAY® daytime running and position light

First retrofit daytime running light with uniform LED light surface: no LED light points visible

- Marked design: The curved design makes the vehicle seem more dynamic
- Dual function: Daytime running and position light (optional)
- Up to 6000 Kelvin
- Suitable for many vehicle models, easy installation
- Low power consumption
- Thanks to the high IP 69K protection rating, intensive car washes do not pose a threat to the LED daytime running light
- ECE R87 approval

### OSRAM LEDriving® daytime running light

- Up to 5200 Kelvin
- IP 67 protection rating

### OSRAM LED Retrofits for interiors or off-road<sup>1)</sup>

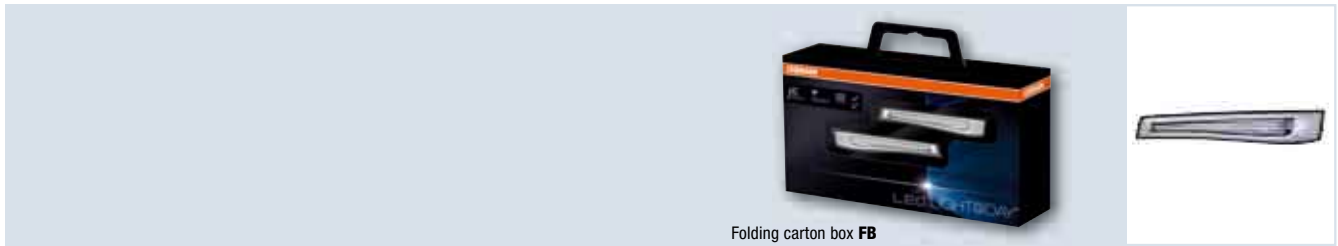
Best LED light by state-of-the-art visual diffuser material

- Completely new light effect thru a color temperature of up to 6000 K
- Up to 80 % lower power consumption than standard lamps
- Uniform light, no spotty lighting
- Lamp types with high sales potential:  
*LEDW5W, LEDT4W and LEDC5W* (structure corresponds to the halogen variants C5W, W5W and T4W)
- Each in „warm“ (4000 K) and „cool“ versions (6000 K)
- LED retrofit lamps for numberplate lighting (off-road use)





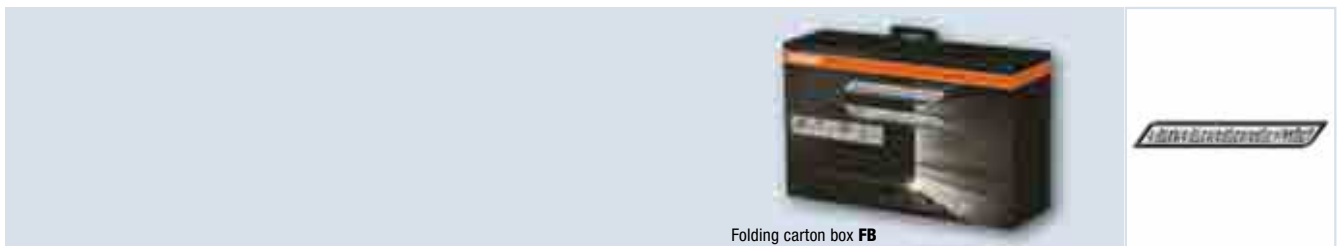
OSRAM LED LIGHT@DAY® product range



Folding carton box FB

Product reference	V	W	Product number Smallest unit	Product number Shipping unit	FB	-01B	-02B	No.
LEDDR101	12	15	4008321673152	4008321673169	2	-	-	-

OSRAM LEDDriving® product range



Folding carton box FB

Product reference	V	W	Product number Smallest unit	Product number Shipping unit	FB	-01B	-02B	No.
LEDDR301	12	15	4008321781215	4008321781222	4	-	-	-

OSRAM LED Retrofits product range<sup>2)</sup>



Single blister ...-01B

Double blister ...-02B

Product reference	V	W	Product number Smallest unit	Product number Shipping unit	FB	-01B	-02B	No.	
2850CW-02B	12	1	W2.1x9.5d	4008321657657	4008321657664	-	-	5	59 <sup>P.57</sup>
2850WW-02B	12	1	W2.1x9.5d	4008321657633	4008321657640	-	-	5	59 <sup>P.57</sup>
3850CW-02B	12	1	BA9s	4008321658111	4008321658128	-	-	5	72 <sup>P.57</sup>
3850WW-02B	12	1	BA9s	4008321657893	4008321657909	-	-	5	72 <sup>P.57</sup>
6498CW-01B	12	1	SV8.5-8	4008321658173	4008321658180	-	5	-	65 <sup>P.57</sup>
6498WW-01B	12	1	SV8.5-8	4008321658159	4008321658166	-	5	-	65 <sup>P.57</sup>

OSRAM LED LIGHT@DAY® display

LED LIGHT@DAY® counter display (W x H x D: 375 x 350 x 188 mm)  
Contents: 2 x LED LIGHT@DAY® Tagfahrlichtkit



LED LIGHT@DAY® counter display

1) for precise conditions, go to [www.osram.com/am-guarantee](http://www.osram.com/am-guarantee)  
2) Only approved for use in interiors or off-road

# OSRAM LED Accessories That certain something

Fine, functional design and high-quality materials make the mobile LED products from OSRAM a real eye-catcher and an indispensable accompaniment.

## More mobility, more opportunities

In the car, at home, in the office, at leisure, playing sport, on the move or on holiday: the attractive and practical reading lamps and torches are the ideal choice, any place, any time. They are particularly popular with design-conscious customers, in particular women, families and younger target groups.

## More design, more quality

- Only from OSRAM: innovative charging concept via USB interface
- Completely unique design and high-quality materials – particularly fine visual and haptic appearance
- Pleasantly soft, easy-grip and dirt-resistant surface
- Up to 20,000 hours LED service life

Only  
from OSRAM:  
Just recharge via  
USB



OSRAM LED Accessories product range



Product reference	V	Product number Smallest unit	Product number Shipping unit	FB
LOOX-CU CUBY (black)	5	4008321666819	4008321666826	6
LOOX-CU CUBY WT (white)	5	4008321756510	4008321756527	6
LOOX-CU CUBY BL (blue)	5	4008321756480	4008321756497	6
LOOX-CU CUBY PI (pink)	5	4008321756459	4008321756466	6
LOOX-RS RAYSTAR (black)	5	4008321666772	4008321666789	4
LOOX-RS RAYSTAR WT (white)	5	4008321756428	4008321756435	4
LOOX-RS RAYSTAR BL (blue)	5	4008321756398	4008321756404	4
LOOX-RS RAYSTAR PI (pink)	5	4008321756367	4008321756374	4



reddot design award  
winner 2012





# OSRAM XENARC® SILVERSTAR®

## The most powerful xenon automotive lighting in the world

The highlight in the xenon market: With up to 30 % more light on the road and a light beam which is up to 20 meters longer than standard xenon lamps, the OSRAM XENARC® SILVERSTAR® is the world's most powerful xenon headlamp light.

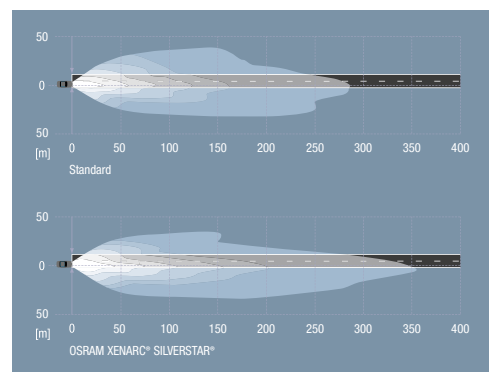
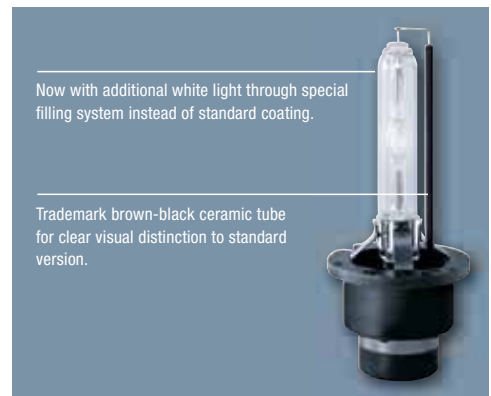
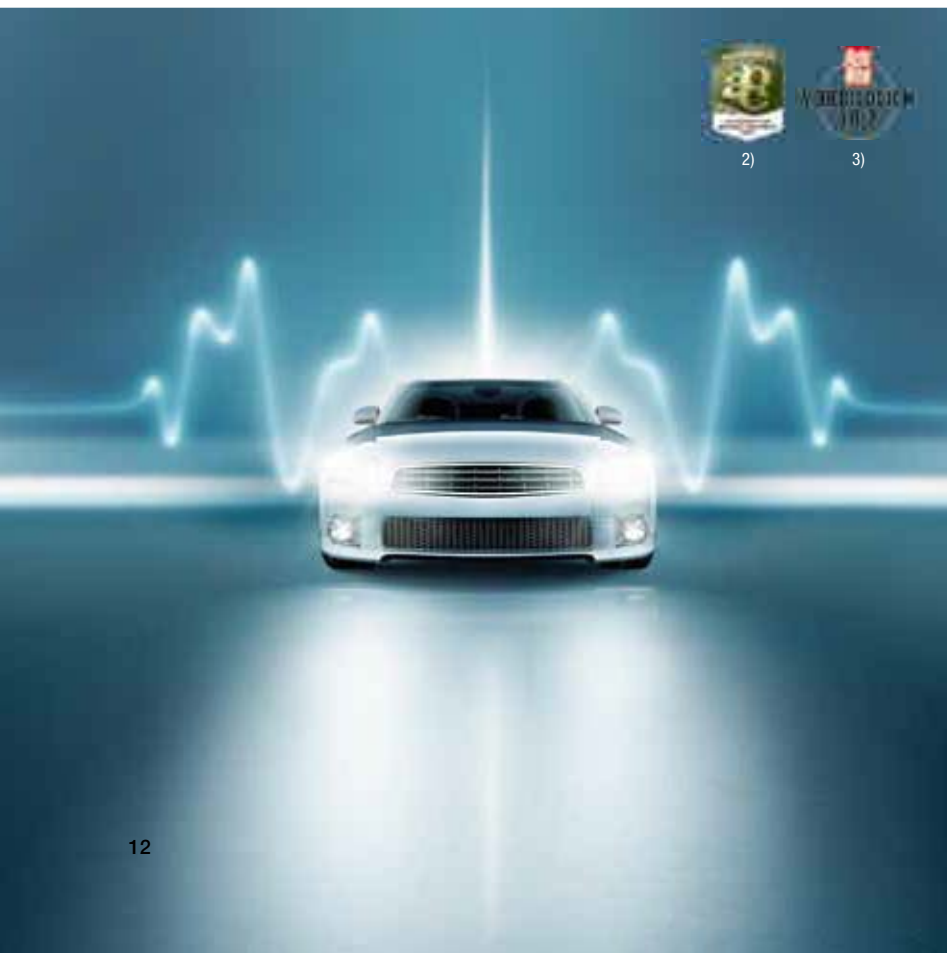
### Even more light, even greater safety

OSRAM XENARC® SILVERSTAR® is the perfect choice for all drivers, who value maximum visibility and safety. The increased quantity of light, compared with standard xenon lamps, means visibly improved road illumination. For drivers, this means: even more safety, as concentration is enhanced, allowing faster reactions.

### This puts all the competitors in the shade

- The most powerful xenon automotive lighting in the world
- More than 30% more light than standard xenon lamps
- More than 130 % more light than halogen lamps
- Light beam up to 20 m longer<sup>1)</sup> than standard xenon lamps

**XENARC® lamps should be changed by a qualified mechanic.**



## OSRAM XENARC® SILVERSTAR® product range

Folding carton box **FB**DUO BOX ...-**HCB**

Product reference	ECE	W		lm	K	Product number Smallest unit	Product number Shipping unit		FB	-HCB	 No.
66140SVS <sup>4)</sup>	D1S <sup>5)</sup>	35	PK32d-2	3200 <sup>6)</sup>	4200	4008321 <b>663641</b>	4008321 <b>663658</b>		10	-	1 <sup>P56</sup>
66240SVS <sup>4)</sup>	D2S <sup>5)</sup>	35	P32d-2	3200 <sup>6)</sup>	4200	4008321 <b>663665</b>	4008321 <b>663672</b>		10	-	3 <sup>P56</sup>
66240SVS-HCB <sup>4)</sup>	D2S <sup>5)</sup>	35	P32d-2	3200 <sup>6)</sup>	4200	4008321 <b>665317</b>	4008321 <b>665324</b>		-	10	3 <sup>P56</sup>

In comparison		D1S SVS	D2S SVS
Rated output	W	35	35
Luminous flux	lm	3200 <sup>6)</sup>	3200 <sup>6)</sup>
Luminous efficacy	lm/W	89	89
Color temperature	K	4200	4200
Service life	h B <sub>3</sub>	1500	1500
	T <sub>c</sub>	2500	2500

1) Depending on headlight system

2) Award 11/2011

3) 03/2012 edition

4) Reduced UV emission | For projection headlights | ECE approval

5) To be operated only with approved electronic control gear

6) ± 450 lm

XENARC® electronic D1S/R or D3S/R together with the XENAELECTRON® control gear and the associated connecting cables, form a perfectly matched system from OSRAM.



# OSRAM XENARC® COOL BLUE® INTENSE

## Cool look for design professionals

It is exceptionally bright, offers high contrast and is now brilliantly blue. The xenon light of the XENARC® COOL BLUE® INTENSE is an impressive demonstration of OSRAM's innovation power. With its highly efficient technology, brilliant effect and no-compromise design, it represents light for a new generation.

### Outstanding technology

Xenon light is not just the "non plus ultra" for automobile specialists, it is also highly desirable for drivers looking for visionary technology. The new OSRAM XENARC® COOL BLUE® INTENSE produces a bluish light that offers high levels of contrast at usual HID luminous flux. The benefits of this technology provide a perfect view of the road ahead and individual styling.

### A feast for the eyes – XENARC® COOL BLUE® INTENSE

- COOL BLUE® effect with the tried-and-trusted HID luminous flux
- Up to 20 % more light<sup>1)</sup> for perfect road surface illumination
- Maximally uniform, high-contrast light for safe, fatigue-free driving
- ECE-approved with DOT labeling
- Long life
- Stylish, modern appearance on the road

**XENARC® lamps should be replaced by a qualified mechanic.**



Now the extra blue light comes from a special filling system instead of a conventional coating.

Trademark feature: blue ceramic tube to distinguish it visually from the standard version.

**COOL**  
Up to 5500 kelvin!  
Up to 20 % more light!<sup>1)</sup>

## OSRAM XENARC® COOL BLUE® INTENSE product range

Folding carton box **FB**DUO BOX ...-**HCB**

Product reference	ECE	W		lm	K	Product number Smallest unit	Product number Shipping unit		FB	-HCB	 No.
66144CBI <sup>2)</sup>	D1S <sup>4)</sup>	35	PK32d-2	3200 <sup>5)</sup>	5500	4008321 <b>401472</b>	4008321 <b>401489</b>		10	-	1 <sup>P56</sup>
66154CBI <sup>3)</sup>	D1R <sup>4)</sup>	35	PK32d-3	2800 <sup>5)</sup>	5500	4008321 <b>401373</b>	4008321 <b>401380</b>		10	-	2 <sup>P56</sup>
66240CBI <sup>2)</sup>	D2S <sup>4)</sup>	35	P32d-2	3200 <sup>5)</sup>	5500	4008321 <b>401359</b>	4008321 <b>401366</b>		10	-	3 <sup>P56</sup>
66240CBI-HCB <sup>2)</sup>	D2S <sup>4)</sup>	35	P32d-2	3200 <sup>5)</sup>	5500	4008321 <b>588883</b>	4008321 <b>588890</b>		-	10	3 <sup>P56</sup>
66250CBI <sup>3)</sup>	D2R <sup>4)</sup>	35	P32d-3	2800 <sup>5)</sup>	5500	4008321 <b>401533</b>	4008321 <b>401540</b>		10	-	4 <sup>P56</sup>

Comparison		D1S CBI	D1R CBI	D2S CBI	D2R CBI
Rated wattage	W	35	35	35	35
Luminous flux	lm	3200 <sup>5)</sup>	2800 <sup>5)</sup>	3200 <sup>5)</sup>	2800 <sup>5)</sup>
Luminous efficacy	lm/W	89	80	89	80
Color temperature	K	5500	5500	5500	5500
Lamp life	h B <sub>3</sub>	1500	1500	1500	1500
	T <sub>c</sub>	2500	2500	2500	2500

1) Compared to standard coated gas discharge lamps

2) Reduced UV emission | For projection headlights | ECE approval and DOT label

3) Reduced UV emission | With anti-glare strip for reflection headlights | ECE approval and DOT label

4) To be operated only with approved electronic control gear

5) ± 450 lm

XENARC® electronic D1S/R, XENAELECTRON® control gear and the associated connecting cables form a perfectly matched system from OSRAM.



## OSRAM XENARC®

# An innovation for heightened driving comfort

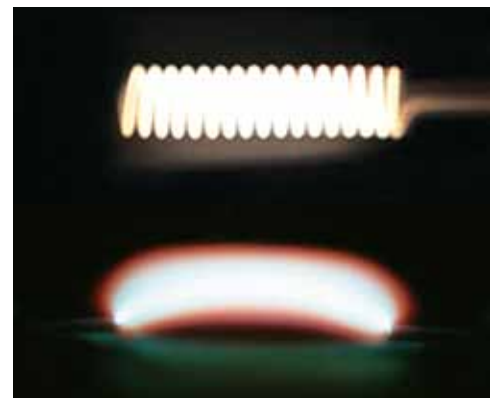
OSRAM has given vehicle lighting a whole new intensity with the arc technology of the XENARC® family of lamps. The D3 and D4 XENARC® systems prove that environmental concerns are very much at the forefront of OSRAM's thinking in its product development activities. They offer the full output of xenon light entirely without mercury.

### The first xenon light without mercury

OSRAM is pushing the boundaries in environmental protection and efficiency with the XENARC® systems D3, D4, and now with the particularly energy-saving D8. Arc technology produces an extremely bright arc of light from an electronically controlled gas discharge. This produces twice as much light as the filament in a halogen lamp. Good illumination of the road ahead is one of the factors that contribute to driver comfort, so even long journeys through the night are more relaxed than ever before. A color temperature similar to that of natural daylight also helps keep drivers relaxed. With an average life of up to 3,000 hours, lamps generally outlast the average automobile. In such cases, there are no costs for maintenance or replacement

### Better visibility, greater safety

- Very bright arc produced by an electronically controlled gas discharge
- Up to 100 % more light than halogen lamps
- At 4,150 K, it has a color temperature closer to natural daylight than conventional halogen light (3,200 K) and is therefore easier on the eyes
- Better illumination of the road reduces the risk of accidents
- The D3 and D4 XENARC® systems are mercury-free and therefore more eco-friendly
- CO<sub>2</sub> reduction: xenon saves 50 % energy (corresponding to 1 g CO<sub>2</sub>/km) compared to standard halogen lamps
- Further 30% energy savings with D8S



The filament of a halogen lamp, compared to the arc of a XENARC® lamp.



## XENARC® electronic gas discharge headlight lamps product range

Folding carton box **FB**

Product reference	ECE	W		lm	K	Product number Smallest unit	Product number Shipping unit		
								<b>FB</b>	<b>No.</b>
66144 <sup>1)</sup>	D1S <sup>3)</sup>	35	PK32d-2	3200 <sup>4)</sup>	4150	4008321 <b>184474</b>	4008321 <b>184481</b>	10	1 <sup>P.56</sup>
66154 <sup>2)</sup>	D1R <sup>3)</sup>	35	PK32d-3	2800 <sup>4)</sup>	4150	4008321 <b>184511</b>	4008321 <b>184528</b>	10	2 <sup>P.56</sup>
66240 <sup>1)</sup>	D2S <sup>3)</sup>	35	P32d-2	3200 <sup>4)</sup>	4150	4008321 <b>184573</b>	4008321 <b>184580</b>	10	3 <sup>P.56</sup>
66250 <sup>2)</sup>	D2R <sup>3)</sup>	35	P32d-3	2800 <sup>4)</sup>	4150	4008321 <b>184634</b>	4008321 <b>184641</b>	10	4 <sup>P.56</sup>
66340 <sup>1)</sup>	D3S <sup>3)</sup>	35	PK32d-5	3200 <sup>4)</sup>	4150	4008321 <b>379627</b>	4008321 <b>379634</b>	10	1 <sup>P.56</sup>
66350 <sup>2)</sup>	D3R <sup>3)</sup>	35	PK32d-6	2800 <sup>4)</sup>	4150	4008321 <b>129857</b>	4008321 <b>129864</b>	10	2 <sup>P.56</sup>
66440 <sup>1)</sup>	D4S <sup>3)</sup>	35	P32d-5	3200 <sup>4)</sup>	4150	4008321 <b>349392</b>	4008321 <b>349408</b>	10	3 <sup>P.56</sup>
66450 <sup>2)</sup>	D4R <sup>3)</sup>	35	P32d-6	2800 <sup>4)</sup>	4150	4008321 <b>349576</b>	4008321 <b>349583</b>	10	4 <sup>P.56</sup>
66548 <sup>1)</sup>	D8S <sup>3)</sup>	25	PK32D-1	2000 <sup>5)</sup>	4500	4008321 <b>787019</b>	4008321 <b>787026</b>	10	1 <sup>P.56</sup>

NEW

Comparison		D1S	D1R	D2S	D2R	D3S	D3R	D4S	D4R	D8S
Rated wattage	W	35	35	35	35	35	35	35	35	25
Luminous flux	lm	3200 <sup>4)</sup>	2800 <sup>4)</sup>	3200 <sup>4)</sup>	2800 <sup>4)</sup>	3200 <sup>4)</sup>	2800 <sup>4)</sup>	3200 <sup>4)</sup>	2800 <sup>4)</sup>	2000 <sup>5)</sup>
Luminous efficacy	lm/W	89	80	89	80	89	80	89	80	80
Color temperature	K	4150	4150	4150	4150	4150	4150	4150	4150	4500
Lamp life	h B <sub>3</sub>	2000	2000	2000	2000	1800	1800	1800	1800	2000
	T <sub>c</sub>	3000	3000	3000	3000	3000	3000	3000	3000	3000

1) Reduced UV emission | For projection headlights | ECE approval and DOT label

2) Reduced UV emission | With anti-glare strip for projection headlights | ECE approval and DOT label

3) To be operated only with approved electronic control gear

4) ± 450 lm

5) ± 300 lm

XENARC® electronic D1S/R or D3S/R, XENAELECTRON® control gear and the associated connecting cables form a perfectly matched system from OSRAM.



# OSRAM XENAELECTRON®

## Systematic power

Perfectly matched system solution from OSRAM: The strength of the XENARC® D1/D3 system lies in the perfect combination of individual components.

### **Stronger together: 1 + 1 = 3!**

The XENAELECTRON® XT5-D1/12 V/24 V, XENAELECTRON® XT6-D3/12 V or XENAELECTRON® 25XT6 control gear for the newly developed D8 systems for mercury-free gas discharge lamps with a power consumption of only 25 W (XENARC® D8S) are connected to the OSRAM D1/D3/D8 lamp XENARC®.

**Note: Because of their high voltage, XENAELECTRON® control units may only be replaced by properly trained personnel.**

### **Professional electronics from the system expert**

- Perfectly matched to OEM automotive requirements
- Compact design of the XENAELECTRON® control gear
- Excellent EMI performance
- Modular construction for use in different headlight designs



XENAELECTRON® for XENARC® electronic gas discharge headlight lamps – product range



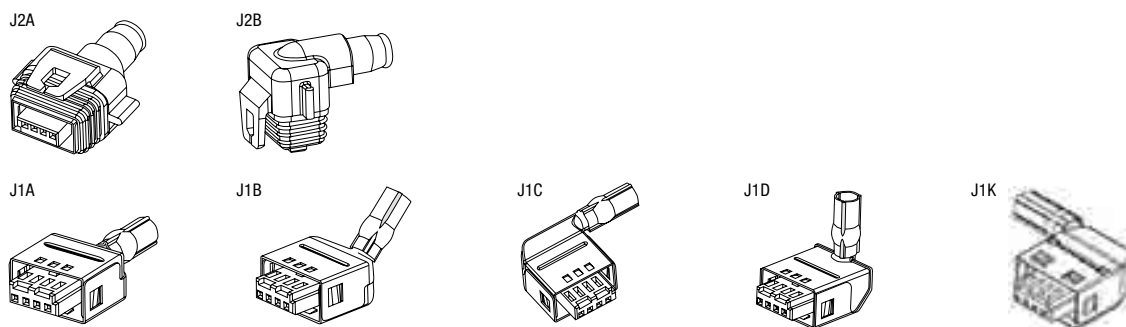
Product reference	Product number	ECE	V	l (mm)	b (mm)	h (mm)	°C min.-max.		 No.
XENAELECTRON XT5-1-D1/12V	4008321908575	D1S & D1R	12	82	73,15	25,2	-40...+105	40	77 <sup>P.57</sup>
XENAELECTRON XT5-3-D1/12V T3	4008321908582	D1S & D1R	12	125	74,11	25,2	-40...+105	40	76 <sup>P.57</sup>
XENAELECTRON XT5-2-D1/12V BH	4008321033611	D1S & D1R	12	123	105,77	25,2	-40...+105	45	78 <sup>P.57</sup>
XENAELECTRON XT5-1-D1/24V	4008321139047	D1S & D1R	24	82	73,15	25,2	-40...+105	40	77 <sup>P.57</sup>
XENAELECTRON XT5-3-D1/24V TAB	4008321139023	D1S & D1R	24	125	74,11	25,2	-40...+105	40	76 <sup>P.57</sup>
XENAELECTRON XT5-2-D3/12V BH	4008321139061	D3S & D3R	12	123	105,77	25,2	-40...+105	45	78 <sup>P.57</sup>
XENAELECTRON 35XT6-S-D3/12V	4008321676702	D3S & D3R	12	123	102	25,2	-40...+105	32	78 <sup>P.57</sup>
XENAELECTRON 25XT6-A/12V	4008321542861	D8S	12	123	102	25,2	-40...+105	32	78 <sup>P.57</sup>

Cable for OSRAM D1-/D3 and D8S systems – product range

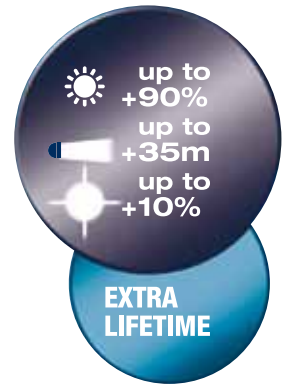


Product reference	Product number				 No.
V-J1D-240-J2A	4050300879888	J1D	J2A	40	79 <sup>P.57</sup>
M-J1A-260-J2B	4008321364111	J1A	J2B	40	79 <sup>P.57</sup>
O-J1D-165-J2A	4008321662972	J1D	J2A	80	79 <sup>P.57</sup>

The cables are available with different connector configurations and in various different lengths.



XENARC® electronic D1S/R or D3S/R together with the XENAELECTRON® control gear and the associated connecting cables, form a perfectly matched system from OSRAM.



# OSRAM NIGHT BREAKER® PLUS

## The world's most powerful automotive halogen lamp

Unrivalled brilliance has a name: OSRAM NIGHT BREAKER® PLUS! The lamp produces more light and creates a longer beam than any other halogen lamp. More technology for longer life.

### Optimum light for faster reactions

NIGHT BREAKER® PLUS is the ideal lamp for drivers who want to drive more safely with more light and stay relaxed. With patented blue ring coating for less reflected glare, this halogen lamp produces up to 90% more light on the road, has a beam that is up to 35 meters longer and provides light that is up to 10% whiter. The longer beam means that drivers can spot obstacles and dangerous situations much sooner. It focuses the light 75 to 100 meters ahead of the vehicle – precisely where the driver needs it. The extra reaction time can be the difference between life and death!

### Fighting the dark forces – day and night

- Up to 90% more light on the road<sup>1)</sup> for better visibility and much longer reaction time
- Up to 35 m longer beam of light<sup>1)</sup>
- Up to 10% whiter light<sup>1)</sup> for comfortable, fatigue-free driving
- Up to 50% longer life<sup>2)</sup> (Extra Lifetime)
- Eye-catching design with partial, blue coating and silver cap (H4/H7/H11/HB4)
- Gold-plated contacts (H4/H7) for excellent corrosion protection, outstanding conductivity and high-class look

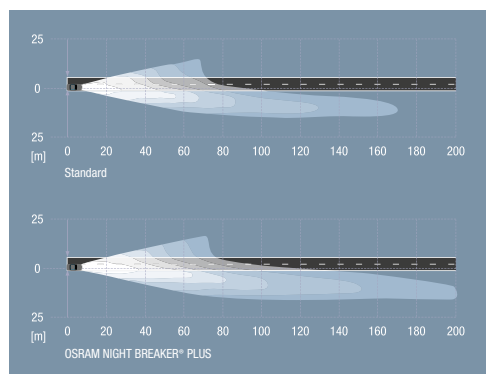


**PLUSpoint** filler gas:  
Optimized noble gas formula for more efficient light generation.

**PLUSpoint** filament:  
More robust design for greater loads

**PLUSpoint** gold contacts  
Higher quality corrosion protection for exceptional conductivity  
Fine appearance

**PLUS**  
Extra Lifetime



OSRAM NIGHT BREAKER® PLUS product range



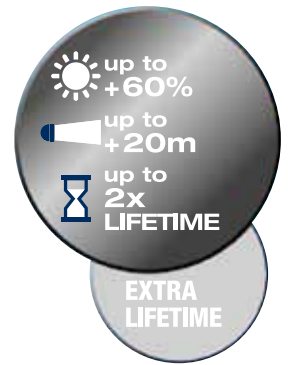
Product reference	ECE	V	W		Product number Smallest unit	Product number Shipping unit		FB	-01B	-02B	-HCB		No.
64150NBP	H1	12	55	P14.5s	4008321544506	4008321544520		100	-	-	-		5 <sup>P.56</sup>
64150NBP-01B	H1	12	55	P14.5s	4008321546463	4008321546470		-	10	-	-		5 <sup>P.56</sup>
64150NBP-02B	H1	12	55	P14.5s	4008321546449	4008321546456		-	-	10	-		5 <sup>P.56</sup>
64150NBP-HCB	H1	12	55	P14.5s	4008321544582	4008321544599		-	-	-	10		5 <sup>P.56</sup>
64151NBP	H3	12	55	PK22s	4008321544438	4008321544452		100	-	-	-		9 <sup>P.56</sup>
64151NBP-01B	H3	12	55	PK22s	4008321546425	4008321546432		-	10	-	-		9 <sup>P.56</sup>
64193NBP	H4	12	60/55	P43t	4008321550460	4008321550484		100	-	-	-		14 <sup>P.56</sup>
64193NBP-01B	H4	12	60/55	P43t	4008321550750	4008321550767		-	10	-	-		14 <sup>P.56</sup>
64193NBP-02B	H4	12	60/55	P43t	4008321550774	4008321550781		-	-	10	-		14 <sup>P.56</sup>
64193NBP-HCB	H4	12	60/55	P43t	4008321550798	4008321550804		-	-	-	10		14 <sup>P.56</sup>
64210NBP	H7	12	55	PX26d	4008321548085	4008321548108		100	-	-	-		19 <sup>P.56</sup>
64210NBP-01B	H7	12	55	PX26d	4008321548276	4008321548283		-	10	-	-		19 <sup>P.56</sup>
64210NBP-02B	H7	12	55	PX26d	4008321548252	4008321548269		-	-	10	-		19 <sup>P.56</sup>
64210NBP-HCB	H7	12	55	PX26d	4008321548290	4008321548306		-	-	-	10		19 <sup>P.56</sup>
64211NBP	H11	12	55	PGJ19-2	4008321544605	4008321544629		100	-	-	-		29 <sup>P.56</sup>
64211NBP-01B	H11	12	55	PGJ19-2	4008321546487	4008321546494		-	10	-	-		29 <sup>P.56</sup>
9005NBP-HCB	HB3	12	60	P20d	4008321634016	4008321634023		-	-	-	10		35 <sup>P.56</sup>
9006NBP-HCB	HB4	12	51	P22d	4008321634030	4008321634047		-	-	-	10		36 <sup>P.56</sup>

OSRAM NIGHT BREAKER® PLUS Displays

- NIGHT BREAKER® PLUS counter display** (W x H x D: 300 x 340 x 310 mm)  
Contents: 6 x H7 DUO BOX, 4 x H4 DUO BOX 4008321575906
- NIGHT BREAKER® PLUS acrylic display DUO BOX** (W x H x D: 240 x 465 x 210 mm)  
Contents: 6 x H7 DUO BOX, 6 x H4 DUO BOX 4008321578433
- NIGHT BREAKER® PLUS floor display DUO BOX** (W x H x D: 842 x 1490 x 385 mm)  
Contents: 8 x H1, 32 x H4, 40 x H7 DUO BOX 4008321578457
- NIGHT BREAKER® PLUS floor display blister** (W x H x D: 842 x 1490 x 385 mm)  
Contents: 8 x H1, 32 x H4, 40 x H7 Blister 4008321578440



1) Compared with standard lamps  
 2) Compared to the first generation of NIGHT BREAKER®  
 3) Test 2010 4) 04/2011 edition 5) Test 2011 6) 07/2011 edition



# OSRAM SILVERSTAR® 2.0

## Synonymous with more power and greater safety



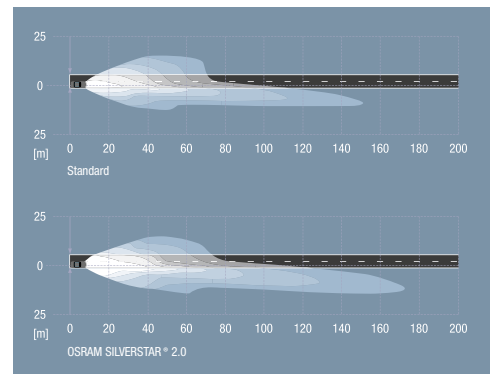
The new star lamp for drivers who place emphasis on safety, performance and price: OSRAM SILVERSTAR® 2.0 is one of the best current light solutions for all categories.

### Safety in the dark.

Long journeys at night call for full concentration on the part of the driver. A lamp with better illumination of the road will make driving easier and raise awareness considerably. Vehicles equipped with OSRAM SILVERSTAR® 2.0 therefore have a crucial advantage in terms of safety. Up to 50 % more light on the road at 50 to 75 m in front of the vehicle enables drivers to spot road signs, obstacles and other dangers sooner so they can react in good time.

### SILVERSTAR® 2.0 speaks for itself.

- Up to 60 % more light on the road<sup>1)</sup> for greater safety
- Up to 20m longer beam<sup>1)</sup>
- Up to double the service life<sup>2)</sup>
- Modern design with silver cap, ideal for all clear-glass headlights (H4/H7)
- For the performance-conscious driver



## OSRAM SILVERSTAR® 2.0 product range



Product reference	ECE	V	W		Product number Smallest unit	Product number Shipping unit		FB	-01B	-02B	-HCB		No.
64150SV2	H1	12	55	P14.5s	4008321785831	4008321785848		100	-	-	-		6 <sup>P.56</sup>
64150SV2-01B	H1	12	55	P14.5s	4008321785855	4008321785862		-	10	-	-		6 <sup>P.56</sup>
64150SV2-02B	H1	12	55	P14.5s	4008321785879	4008321785886		-	-	10	-		6 <sup>P.56</sup>
64150SV2-HCB	H1	12	55	P14.5s	4008321785893	4008321785909		-	-	-	10		6 <sup>P.56</sup>
64193SV2	H4	12	60/55	P43t	4008321785947	4008321785954		100	-	-	-		16 <sup>P.56</sup>
64193SV2-01B	H4	12	60/55	P43t	4008321785961	4008321785978		-	10	-	-		16 <sup>P.56</sup>
64193SV2-02B	H4	12	60/55	P43t	4008321785985	4008321785992		-	-	10	-		16 <sup>P.56</sup>
64193SV2-HCB	H4	12	60/55	P43t	4008321786005	4008321786012		-	-	-	10		16 <sup>P.56</sup>
64210SV2	H7	12	55	PX26d	4008321786692	4008321786708		100	-	-	-		21 <sup>P.56</sup>
64210SV2-01B	H7	12	55	PX26d	4008321786715	4008321786722		-	10	-	-		21 <sup>P.56</sup>
64210SV2-02B	H7	12	55	PX26d	4008321786739	4008321786746		-	-	10	-		21 <sup>P.56</sup>
64210SV2-HCB	H7	12	55	PX26d	4008321786753	4008321786760		-	-	-	10		21 <sup>P.56</sup>
64211SV2	H11	12	55	PGJ19-2	4008321787156	4008321787170		100	-	-	-		27 <sup>P.56</sup>
64211SV2-HCB	H11	12	55	PGJ19-2	4008321787187	4008321787194		-	-	-	10		27 <sup>P.56</sup>

1) Compared with standard lamps

2) Compared to the first generation of SILVERSTAR®



# OSRAM COOL BLUE® INTENSE

## Stylish and safe

OSRAM COOL BLUE® INTENSE provides stylish and powerful light on the road. Its bright bluish-white light is almost in the same league as the light from attractive xenon lamps.

### Cool light, strong effect

COOL BLUE® INTENSE produces high-contrast light similar to natural daylight and is therefore easier on the eyes than the light from conventional headlights. The bluish-white light has a color temperature of up to 4,200K, making it an attractive lamp and putting many other “blue” lamps firmly in the shade. COOL BLUE® INTENSE H4, H7, H11 and HB4 lamps have an eye-catching design, perfect for style-conscious drivers. Behind the clear glass, the silver cap blends perfectly with the reflector. This effect is reinforced by the use of the W5WHalogen COOL BLUE® INTENSE as parking lights.

### Features at a glance

- Modern, bright bluish-white light (up to 4,200K, similar to light from xenon lamps)
- Up to 20 % brighter than standard lamps (subjective impression)
- High-contrast illumination of the road
- Optimized design with a silver cap (H4/H7/H11/HB4), ideal for clear-glass headlights
- Available for all front lighting functions
- For the design-conscious driver





## OSRAM COOL BLUE® INTENSE product range



Product reference	ECE	V	W		Product number Smallest unit	Product number Shipping unit		FB	-01B	-02B	-HCB	 No.
64150CBI	H1	12	55	P14.5s	4008321655325	4008321655349		100	-	-	-	7 <sup>P.56</sup>
64150CBI-01B	H1	12	55	P14.5s	4008321655424	4008321655431		-	10	-	-	7 <sup>P.56</sup>
64150CBI-02B	H1	12	55	P14.5s	4008321655448	4008321655455		-	-	10	-	7 <sup>P.56</sup>
64150CBI-HCB	H1	12	55	P14.5s	4008321650719	4008321650726		-	-	-	10	7 <sup>P.56</sup>
64151CBI	H3	12	55	PK22s	4008321655479	4008321655486		100	-	-	-	11 <sup>P.56</sup>
64193CBI	H4	12	60/55	P43t	4008321650894	4008321650917		100	-	-	-	12 <sup>P.56</sup>
64193CBI-01B	H4	12	60/55	P43t	4008321651280	4008321651297		-	10	-	-	12 <sup>P.56</sup>
64193CBI-02B	H4	12	60/55	P43t	4008321651303	4008321651310		-	-	10	-	12 <sup>P.56</sup>
64193CBI-HCB	H4	12	60/55	P43t	4008321650733	4008321650740		-	-	-	10	12 <sup>P.56</sup>
64210CBI	H7	12	55	PX26d	4008321651341	4008321651365		100	-	-	-	20 <sup>P.56</sup>
64210CBI-01B	H7	12	55	PX26d	4008321651563	4008321651570		-	10	-	-	20 <sup>P.56</sup>
64210CBI-02B	H7	12	55	PX26d	4008321651372	4008321651389		-	-	10	-	20 <sup>P.56</sup>
64210CBI-HCB	H7	12	55	PX26d	4008321650757	4008321650764		-	-	-	10	20 <sup>P.56</sup>
64211CBI-HCB	H11	12	55	PGJ19-2	4008321650771	4008321650788		-	-	-	10	28 <sup>P.56</sup>
9005CBI-HCB	HB3	12	60	P20d	4008321660282	4008321660299		-	-	-	10	34 <sup>P.56</sup>
9006CBI-HCB	HB4	12	51	P22d	4008321660305	4008321660312		-	-	-	10	39 <sup>P.56</sup>
2825HCBI	W5W	12	5	W2.1x9.5d	4008321650856	4008321650863		5	-	-	-	60 <sup>P.57</sup>
2825HCBI-02B	W5W	12	5	W2.1x9.5d	4008321650870	4008321650887		-	-	10	-	60 <sup>P.57</sup>

## OSRAM COOL BLUE® INTENSE display

COOL BLUE® INTENSE counter display (W x H x D: 300 x 340 x 310 mm)

Contents: 6 x H7 DUO BOX, 4 x H4 DUO BOX

4008321662620



COOL BLUE® INTENSE counter display



## OSRAM DIADEM® and DIADEM® CHROME Visual tuning for indicator and tail lamps

Modern aesthetic light supplement – for halogen and xenon headlamps:

DIADEM® and DIADEM® CHROME are the perfect signal lamp solution for drivers who place emphasis on design.

### Harmonious from front to back

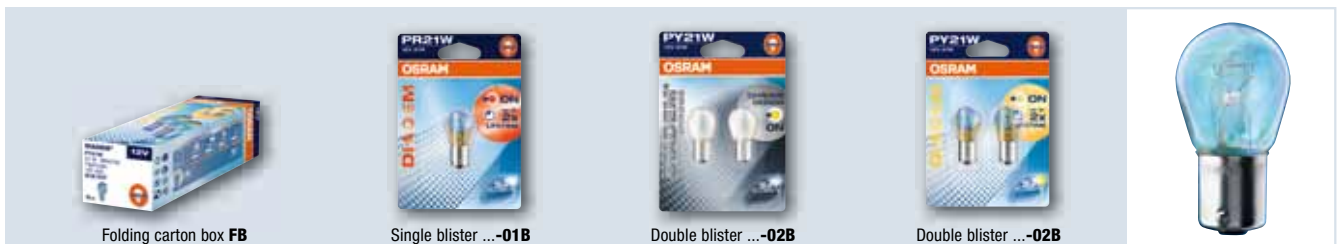
OSRAM DIADEM® and DIADEM® CHROME have the most advanced interference coating. Their surface therefore has an opalescent appearance – the lamp only appears amber or red when it is on. This design effect is ideal for all indicator and reversing/brake lights with clear covers.




### Noticeably unnoticeable – each in their own way

- Only colored when working
- Interference coating
- Color does not fade over time
- DIADEM® – lifespan up to 2x longer<sup>1)</sup>
- DIADEM® – discreet bluish shimmer when switched off
- NEW: DIADEM® Chrome – almost invisible when switched off



## OSRAM DIADEM® / OSRAM DIADEM® CHROME product range



Product reference	ECE	V	W		Product number Smallest unit	Product number Shipping unit	 FB	-01B	-02B	 No.
<b>OSRAM DIADEM® CHROME</b>										
2827DC-02B <sup>2)</sup>	WY5W	12	21	W2.1x9.5d	4008321972750	4008321972767	-	-	10	61 <sup>P.57</sup>
7507DC-02B <sup>2)</sup>	PY21W	12	21	BAU15s	4008321972774	4008321972781	-	-	10	48 <sup>P.57</sup>
<b>OSRAM DIADEM®</b>										
7507LDA <sup>2)</sup>	PY21W	12	21	BAU15s	4008321137425	4008321137432	5	-	-	48 <sup>P.57</sup>
7507LDA-02B <sup>2)</sup>	PY21W	12	21	BAU15s	4050300925486	4008321140524	-	-	10	48 <sup>P.57</sup>
7508LDR <sup>3)</sup>	PR21W	12	21	BAW15s	4008321376848	4008321376855	-	10	-	48 <sup>P.57</sup>
7538LDR <sup>3)</sup>	PR21/5W	12	21/5	BAW15d	4008321376862	4008321376879	-	10	-	50 <sup>P.57</sup>

1) Compared with standard lamps

2) Amber lamps for clear indicator lights

3) Red light for clear tail/brake lights



# OSRAM ULTRA LIFE

## The most durable halogen automotive lighting in the world, guaranteed

ULTRA LIFE lamps last up to three times longer than conventional automotive lamps. For ULTRA LIFE headlamps that are not in commercial use, OSRAM is also the first manufacturer to offer a three-year guarantee<sup>1)</sup>.

### OSRAM ULTRA LIFE – now with a 3-year guarantee

So annoying: a headlight lamp suddenly fails in the middle of the night. A replacement lamp has to be found and installed quickly because driving with one headlight is a huge safety risk. Drivers who are often on the road at night or who do not want to go without the safety of low beam light during the day are well aware of this situation. Because they are in almost constant use, the headlights of these drivers fail more often than usual. Owners of vehicles with headlight lamps that are difficult to access also save themselves time and money with the new ULTRA LIFE lamps. And the environment also benefits as fewer replacements means less waste.

### Ultra variety for any automobile

- The first automotive brand lamp to have a 3-year guarantee
- Lasts up to three times longer than a conventional automotive lamp
- Unique reliability
- Suitable for all vehicle types
- Modern design with a silver cap (H4/H7), ideal for clear-glass headlights
- Approved for use throughout Europe



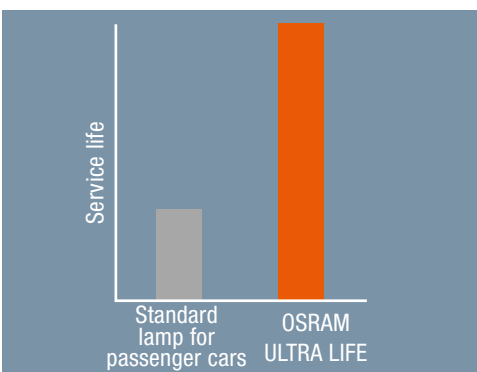
**The perfect daytime running light**  
Mandatory daytime running light

HR	MNE	CZ	H	N	LT
IS	SK	RUS	LV	SLO	RO
I	PL	S	FIN	MK	BIH
BG	DK	EST			

Recommended daytime running light:

D	F	CH
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Date 05/2012



## OSRAM ULTRA LIFE product range



Product reference	ECE	V	W		Product number Smallest unit	Product number Shipping unit		FB	-01B	-02B	-HCB		No.
64150ULT	H1	12	55	P14.5s	4008321416209	4008321416223		100	-	-	-	6	P.56
64150ULT-01B	H1	12	55	P14.5s	4008321416100	4008321416117		-	10	-	-	6	P.56
64150ULT-02B	H1	12	55	P14.5s	4008321416315	4008321416322		-	-	10	-	6	P.56
64150ULT-HCB	H1	12	55	P14.5s	4008321416162	4008321416179		-	-	-	10	6	P.56
64193ULT	H4	12	60/55	P43t	4008321416230	4008321416254		100	-	-	-	13	P.56
64193ULT-01B	H4	12	60/55	P43t	4008321416124	4008321416131		-	10	-	-	13	P.56
64193ULT-02B	H4	12	60/55	P43t	4008321416339	4008321416346		-	-	10	-	13	P.56
64193ULT-HCB	H4	12	60/55	P43t	4008321416186	4008321416193		-	-	-	10	13	P.56
64210ULT	H7	12	55	PX26d	4008321416261	4008321416285		100	-	-	-	21	P.56
64210ULT-01B	H7	12	55	PX26d	4008321416087	4008321416094		-	10	-	-	21	P.56
64210ULT-02B	H7	12	55	PX26d	4008321416292	4008321416308		-	-	10	-	21	P.56
64210ULT-HCB	H7	12	55	PX26d	4008321416148	4008321416155		-	-	-	10	21	P.56
2825ULT	W5W	12	5	W2.1x9.5d	4008321413031	4008321413048		5	-	-	-	59	P.57
2825ULT-02B	W5W	12	5	W2.1x9.5d	4008321415189	4008321415196		-	-	10	-	59	P.57
5007ULT	R5W	12	5	BA15s	4008321415387	4008321415394		5	-	-	-	53	P.57
5007ULT-02B	R5W	12	5	BA15s	4008321415202	4008321415219		-	-	10	-	53	P.57
5008ULT	R10W	12	10	BA15s	4008321415417	4008321415424		5	-	-	-	53	P.57
5008ULT-02B	R10W	12	10	BA15s	4008321415226	4008321415233		-	-	10	-	53	P.57
64132ULT	H6W	12	6	BAX9s	4008321413185	4008321413192		5	-	-	-	70	P.57
64132ULT-02B	H6W	12	6	BAX9s	4008321415325	4008321415332		-	-	10	-	70	P.57
6418ULT	C5W	12	5	SV8.5-8	4008321413093	4008321413109		5	-	-	-	65	P.57
6418ULT-02B	C5W	12	5	SV8.5-8	4008321415240	4008321415257		-	-	10	-	65	P.57
7506ULT	P21W	12	21	BA15s	4008321415356	4008321415363		5	-	-	-	46	P.57
7506ULT-02B	P21W	12	21	BA15s	4008321415141	4008321415158		-	-	10	-	46	P.57
7507ULT <sup>2)</sup>	PY21W	12	21	BAU15s	4008321413154	4008321413161		5	-	-	-	48	P.57
7507ULT-02B <sup>2)</sup>	PY21W	12	21	BAU15s	4008321415165	4008321415172		-	-	10	-	48	P.57
7528ULT	P21/5W	12	21/5	BAY15d	4008321413123	4008321413130		5	-	-	-	47	P.57
7528ULT-02B	P21/5W	12	21/5	BAY15d	4008321415288	4008321415295		-	-	10	-	47	P.57

## OSRAM ULTRA LIFE Displays

**ULTRA LIFE counter display** (W x H x D: 300 x 340 x 310 mm)

Contents: 2 x H1 DUO BOX, 4 x H7 DUO BOX, 4 x H4 DUO BOX

4008321953292

**ULTRA LIFE acrylic display double blister** (W x H x D: 310 x 295 x 290 mm)

Contents: 4 x H4 double blister, 5 x H7 double blister

4008321913470

**ULTRA LIFE acrylic display DUO BOX** (W x H x D: 240 x 465 x 210 mm)

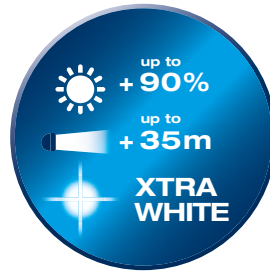
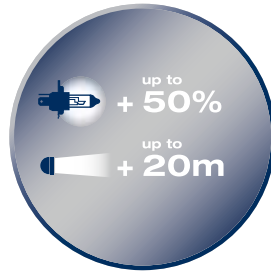
Contents: 6 x H7 DUO BOX, 6 x H4 DUO BOX

4008321953643



1) Refer to [www.osram.com/am-guarantee](http://www.osram.com/am-guarantee) for exact conditions

2) Amber lamps for clear indicator lights



# OSRAM motorcycle lamps

## Power and Emotion

In NIGHT RACER® PLUS, SILVERSTAR® and X-RACER®, OSRAM opens up a new dimension for life on two wheels – for relaxed cruisers and sporty riders.

**See and be seen:**

**Life insurance for motorcyclists**

The OSRAM high performance lamps, approved throughout Europe, all guarantee more visibility and safety. NIGHT RACER® PLUS are a must for uncompromising riders, who only want the best. There is no more effective, reliable halogen light for bikes. Specially designed for mopeds, the SILVERSTAR® HS1 offers plenty of light at a reasonable price. And anyone wanting to look good whilst looking out will choose X-RACER®. The bluish light is right up to date, looks cool and also does not hurt the eye.

**OSRAM NIGHT RACER® PLUS**

- Up to 90 % more light on the road ahead<sup>1)</sup> for maximum visibility, longer reaction times and maximum safety
- Up to 35 m longer beam of light<sup>1)</sup>

**OSRAM X-RACER®**

- Modern bright bluish-white light (up to 4,000 K, similar to light from xenon lamps)
- Up to 20 % brighter<sup>1)</sup> (subjective perception)

**OSRAM SILVERSTAR®**

- Up to 50 % more light on the road<sup>1)</sup>
- Up to 20 m longer beam of light<sup>1)</sup>



**Spare lamps – compulsory in several countries!**

The carrying of spare lamps is recommended in Germany and a statutory requirement for motorcyclists in many European countries. No problem: NIGHT RACER® PLUS and X-RACER® are also available in double packs – one lamp for immediate replacement and a spare lamp as a reserve.



**reddot design award**  
winner 2009

Cool light, cool packaging

For its motorcycle spare lamp box, OSRAM won the coveted trophy in the "Communication Design" category.



NOMINEE

## OSRAM NIGHT RACER® PLUS product range





Single blister ...-01B



Double blister ...-02B





Product reference	ECE	V	W		Product number Smallest unit	Product number Shipping unit	-01B -02B		 No.
64193NRP-01B	H4	12	60/55	P43t	4008321626998	4008321627001	10	-	14 <sup>P.56</sup>
64193NRP-02B	H4	12	60/55	P43t	4008321977533	4008321977540	-	10	14 <sup>P.56</sup>
64210NRP-01B	H7	12	55	PX26d	4008321626974	4008321626981	10	-	19 <sup>P.56</sup>
64210NRP-02B	H7	12	55	PX26d	4008321623546	4008321623553	-	10	19 <sup>P.56</sup>

## OSRAM X-RACER® product range



Double blister ...-02B



Product reference	ECE	V	W		Product number Smallest unit	Product number Shipping unit	-01B -02B		 No.
64193XR-02B	H4	12	60/55	P43t	4008321395719	4008321395726	-	10	15 <sup>P.56</sup>
64210XR-02B	H7	12	55	PX26d	4008321395696	4008321395702	-	10	20 <sup>P.56</sup>

## HS1 OSRAM SILVERSTAR® / HS1 OSRAM ORIGINAL product range





Folding carton box ...-FB



Single blister ...-01B



Product reference	ECE	V	W		Product number Smallest unit	Product number Shipping unit	FB -01B		 No.
64185SVS	HS1	12	35/55	PX43t	4008321979414	4008321979407	100	-	16 <sup>P.56</sup>
64185SVS-01B	HS1	12	35/55	PX43t	4008321650610	4008321650627	-	10	16 <sup>P.56</sup>
64185	HS1	12	35/35	PX43t	4050300439969	4050300439983	100	-	17 <sup>P.56</sup>

## OSRAM NIGHT RACER® PLUS Display

**NIGHT RACER® PLUS acrylic display**

(W x H x D: 310 x 295 x 290 mm)

Contents: 3 x H7 double blister, 3 x H4 double blister

4008321953261



NIGHT RACER® PLUS acrylic display

1) In comparison to standard solutions  
2) NIGHT RACER® PLUS



## OSRAM ORIGINAL LINE 12V

### The classic

The lamps in the OSRAM ORIGINAL LINE 12V family are highly reliable and have an excellent price-to-performance ratio. Customers who appreciate good quality will be making the right choice with the ORIGINAL LINE 12V.

#### **Peak performance – reliable and cost-effective**

It is certainly no coincidence that OSRAM is the world market leader in vehicle lamps. Either as standard initial equipment or as spare parts, the ORIGINAL LINE 12V family is an extremely popular and successful workhorse. With its excellent price-to-performance ratio and outstanding quality, it is the lamp of choice for a wide range of customers. Its combination of first-class quality, impressive brightness and reliable life gives it a real advantage over other products on the market. The amount of light produced does not decrease over time but remains well within the prescribed safety margins from day one until the very end.

#### **The tried and tested solution for standard requirements**




- OEM quality
- Excellent price-to-performance ratio
- Successfully used in millions of new automobiles from renowned manufacturers
- Impressive brightness and reliability





## OSRAM ORIGINAL LINE 12V headlight lamps / auxiliary lamps product range



Product reference	ECE	V	W		Product number Smallest unit	Product number Shipping unit	 FB	-01B	-02B	 No.
64150	H1	12	55	P14.5s	405030001487	4050300206837	100	-	-	6 <sup>P.56</sup>
64150-01B	H1	12	55	P14.5s	4050300925264	4008321142009	-	10	-	6 <sup>P.56</sup>
64151 <sup>1)</sup>	H3	12	55	P43t	4050300001494	4050300211183	100	-	-	10 <sup>P.56</sup>
64151-01B <sup>1)</sup>	H3	12	55	P43t	4050300925349	4008321142306	-	10	-	10 <sup>P.56</sup>
64193 <sup>1)</sup>	H4	12	60/55	P43t	4050300001470	4050300212074	100	-	-	17 <sup>P.56</sup>
64193-01B <sup>1)</sup>	H4	12	60/55	P43t	4050300925127	4008321142191	-	10	-	17 <sup>P.56</sup>
94193	H4	12	60/55	P43t	4050300019161	4050300250601	100	-	-	17 <sup>P.56</sup>
64210 <sup>2)</sup>	H7	12	55	PX26d	4050300332185	4050300332208	100	-	-	22 <sup>P.56</sup>
64210-01B <sup>2)</sup>	H7	12	55	PX26d	4050300925202	4008321141613	-	10	-	22 <sup>P.56</sup>
64211 <sup>2)</sup>	H11	12	55	PGJ19-2	4050300524313	4050300524337	100	-	-	27 <sup>P.56</sup>
64211-01B <sup>2)</sup>	H11	12	55	PGJ19-2	4008321171252	4008321171269	-	10	-	27 <sup>P.56</sup>
64185 <sup>2)</sup>	HS1	12	35/35	PX43t	4050300439969	4050300439983	100	-	-	17 <sup>P.56</sup>
9005 <sup>2)</sup>	HB3	12	60	P20d	4050300137193	4050300137216	100	-	-	33 <sup>P.56</sup>
9005-01B <sup>2)</sup>	HB3	12	60	P20d	4008321171214	4008321171221	-	10	-	33 <sup>P.56</sup>
9006 <sup>2)</sup>	HB4	12	51	P22d	4050300012650	4050300722221	100	-	-	38 <sup>P.56</sup>
9006-01B <sup>2)</sup>	HB4	12	51	P22d	4008321171238	4008321171245	-	10	-	38 <sup>P.56</sup>
64183 <sup>2)</sup>	R2	12	45/40	P45t	4050300350554	4050300350578	100	-	-	18 <sup>P.56</sup>
64183-01B <sup>2)</sup>	R2	12	45/40	P45t	4050300925400	4008321142887	-	10	-	18 <sup>P.56</sup>
64173	H2	12	55	X511	4050300016559	4050300213590	100	-	-	8 <sup>P.56</sup>
64212 <sup>2)</sup>	H8	12	35	PGJ19-1	4050300498751	4050300498775	100	-	-	30 <sup>P.56</sup>
64213 <sup>2)</sup>	H9	12	65	PGJ19-5	4050300524368	4050300524382	100	-	-	31 <sup>P.56</sup>
9145RD <sup>2)</sup>	H10	12	42	PY20d	4008321199799	4008321199812	100	-	-	38 <sup>P.56</sup>
9008 <sup>2)</sup>	H13	12	60/55	P26.4t	4008321939401	4008321939425	10	-	-	41 <sup>P.57</sup>
64176 <sup>2)</sup>	H15	12	15/55	PGJ23t-1	4008321218391	4008321218414	100	-	-	24 <sup>P.56</sup>
64219L+	H16	12	19	PGJ19-3	4008321626783	4008321626806	100	-	-	25 <sup>P.56</sup>
64242 <sup>2)</sup>	H8B	12	35	PGJY19-1	4008321055422	4008321055446	100	-	-	26 <sup>P.56</sup>
64243 <sup>2)</sup>	H9B	12	65	PGJY19-5	4008321055477	4008321055491	100	-	-	32 <sup>P.56</sup>
64241 <sup>2)</sup>	H11B	12	55	PGJY19-2	4008321054654	4008321054678	100	-	-	26 <sup>P.56</sup>
9004XV <sup>2)</sup>	HB1	12	65/45	PK32D-1	4008321979186	4008321750013	100	-	-	42 <sup>P.57</sup>
9003L <sup>2)</sup>	HB2	12	60/55	P43t	4050300308975	4050300308999	100	-	-	17 <sup>P.56</sup>
9005XS <sup>2)</sup>	HB3A	12	60	P20d	46135320408	4050300721996	100	-	-	37 <sup>P.56</sup>
9006XS <sup>2)</sup>	HB4A	12	51	P22d	4008321554284	4008321554307	100	-	-	23 <sup>P.56</sup>
9007 <sup>2)</sup>	HB5	12	65/55	PX29t	4050300148816	4050300148830	200	-	-	40 <sup>P.57</sup>
880 <sup>2)</sup>	H27/1W	12	27	PG13	4008321542977	4008321542991	100	-	-	43 <sup>P.57</sup>
881 <sup>2)</sup>	H27/2W	12	27	PGJ13	4008321543004	4008321543028	100	-	-	44 <sup>P.57</sup>
2721		12	1,2	W2x4.6d	4050300524887	4008321094797	5	-	-	62 <sup>P.57</sup>
2721-02B		12	1,2	W2x4.6d	4050300925769	4008321140326	-	-	10	62 <sup>P.57</sup>
2722		12	2	W2x4.6d	4008321094810	4008321094827	5	-	-	62 <sup>P.57</sup>




1) New development for easiest lamp changing and high-efficiency headlamps; supply on request

2) Successor type for BILUX®-AS® lamp (product reference 7951)

3) Amber lamps for clear indicator lights




OSRAM ORIGINAL LINE 12V headlight lamps / auxiliary lamps product range



Product reference	ECE	V	W		Product number Smallest unit	Product number Shipping unit	 FB	-01B	-02B	 No.
2722-02B		12	2	W2x4.6d	4050300925783	4008321140333	-	-	10	62 <sup>P.57</sup>
2723	W2,3W	12	2,3	W2x4.6d	4008321094841	4008321094858	5	-	-	62 <sup>P.57</sup>
2820		12	2	W2.1x9.5d	4008321094100	4008321094117	5	-	-	59 <sup>P.57</sup>
2821	W3W	12	3	W2.1x9.5d	4050300524788	4008321094438	5	-	-	59 <sup>P.57</sup>
2821-02B	W3W	12	3	W2.1x9.5d	4050300925745	4008321140371	-	-	10	59 <sup>P.57</sup>
2825	W5W	12	5	W2.1x9.5d	4050300524801	4008321094469	5	-	-	59 <sup>P.57</sup>
2825-02B	W5W	12	5	W2.1x9.5d	4050300925684	4008321140340	-	-	10	59 <sup>P.57</sup>
2827 <sup>3)</sup>	WY5W	12	5	W2.1x9.5d	4050300891217	4008321094490	5	-	-	61 <sup>P.57</sup>
2827-02B <sup>3)</sup>	WY5W	12	5	W2.1x9.5d	4008321149411	4008321149428	-	-	10	61 <sup>P.57</sup>
2886X		12	6	W2.1x9.5d	4008321094674	4008321094681	5	-	-	59 <sup>P.57</sup>
3156	P27W	12	27	W2.5x16d	4008321090638	4008321090645	5	-	-	51 <sup>P.57</sup>
3157	P27/7W	12	27/7	W2.5x16q	4008321090690	4008321090706	5	-	-	52 <sup>P.57</sup>
3796		12	2	BA9s	4050300891316	4008321095718	5	-	-	71 <sup>P.57</sup>
3860		12	5	BA9s	4008321095763	4008321095770	5	-	-	71 <sup>P.57</sup>
3893	T4W	12	4	BA9s	4050300525068	4008321095626	5	-	-	71 <sup>P.57</sup>
3893-02B	T4W	12	4	BA9s	4050300647609	4008321140395	-	-	10	71 <sup>P.57</sup>
5007	R5W	12	5	BA15s	4050300525082	4008321093882	5	-	-	53 <sup>P.57</sup>
5007-02B	R5W	12	5	BA15s	4050300925585	4008321140319	-	-	10	53 <sup>P.57</sup>
5008	R10W	12	10	BA15s	4050300525464	4008321095299	5	-	-	53 <sup>P.57</sup>
5008-02B	R10W	12	10	BA15s	4050300925608	4008321140425	-	-	10	53 <sup>P.57</sup>
5009	RY10W	12	10	BAU15s	4008321095459	4008321095466	5	-	-	54 <sup>P.57</sup>
6411		12	10	SV8.5-8	4050300891361	4008321093745	5	-	-	68 <sup>P.57</sup>
6411-02B		12	10	SV8.5-8	4050300925646	4008321140456	-	-	10	68 <sup>P.57</sup>
64111 <sup>1)</sup>		12	5	BA9s	4008321095022	4008321095039	5	-	-	69 <sup>P.57</sup>
64111-02B <sup>1)</sup>		12	5	BA9s	4050300647258	4008321141576	-	-	10	69 <sup>P.57</sup>
64113 <sup>1)</sup>		12	10	BA9s	4008321095053	4008321095060	5	-	-	69 <sup>P.57</sup>
64115		12	20	BA9s	4008321095084	4008321095091	5	-	-	69 <sup>P.57</sup>
6413		12	5	SV8.5-8	4050300891446	4008321093752	5	-	-	68 <sup>P.57</sup>
64132	H6W	12	6	BAX9s	4008321094902	4008321094919	5	-	-	70 <sup>P.57</sup>
64136	H21W	12	21	BAY9s	4008321095206	4008321095213	5	-	-	64 <sup>P.57</sup>
6418	C5W	12	5	SV8.5-8	4050300525105	4008321094223	5	-	-	65 <sup>P.57</sup>
6418-02B	C5W	12	5	SV8.5-8	4050300925622	4008321140449	-	-	10	65 <sup>P.57</sup>
6428		12	3	SV7-8	4008321094391	4008321094407	5	-	-	66 <sup>P.57</sup>
6438		12	10	SV8.5-8	4008321094360	4008321094377	5	-	-	67 <sup>P.57</sup>
6438-02B		12	10	SV8.5-8	4008321185389	4008321185396	-	-	10	67 <sup>P.57</sup>
6461		12	10	SV8.5-8	4008321094278	4008321094285	5	-	-	65 <sup>P.57</sup>
7225	P21/4W	12	21/4	BAZ15d	4050300891521	4008321091093	5	-	-	47 <sup>P.57</sup>
7225-02B	P21/4W	12	21/4	BAZ15d	4050300925547	4008321140531	-	-	10	47 <sup>P.57</sup>
7504	WY21W	12	21	WX3x16d	4008321165480	4008321165497	5	-	-	58 <sup>P.57</sup>

## OSRAM ORIGINAL LINE 12V headlight lamps / auxiliary lamps product range



Product reference	ECE	V	W		Product number Smallest unit	Product number Shipping unit	 FB	-01B	-02B	 No.
7505	W21W	12	21	W3x16d	4008321090669	4008321090676	5	-	-	57 <sup>P.57</sup>
7505-02B	W21W	12	21	W3x16d	4008321349521	4008321349538	-	-	10	57 <sup>P.57</sup>
7506	P21W	12	21	BA15s	4050300524849	4008321090966	5	-	-	45 <sup>P.57</sup>
7506-02B	P21W	12	21	BA15s	4050300925448	4008321140494	-	-	10	45 <sup>P.57</sup>
7507	PY21W	12	21	BAU15s	4050300891484	4008321091000	5	-	-	48 <sup>P.57</sup>
7507-02B	PY21W	12	21	BAU15s	4050300925462	4008321140517	-	-	10	48 <sup>P.57</sup>
7515	W21/5W	12	21/5	W3x16q	4008321090720	4008321090737	5	-	-	56 <sup>P.57</sup>
7515-02B	W21/5W	12	21/5	W3x16q	4008321662262	4008321662279	-	-	10	56 <sup>P.57</sup>
7528	P21/5W	12	21/5	BAY15d	4050300525129	4008321091055	5	-	-	47 <sup>P.57</sup>
7528-02B	P21/5W	12	21/5	BAY15d	4050300925523	4008321140548	-	-	10	47 <sup>P.57</sup>
921	W16W	12	16	W2.1x9.5d	4008321100955	4008321100962	5	-	-	63 <sup>P.57</sup>
921-02B	W16W	12	16	W2.1x9.5d	4008321349507	4008321349514	-	-	10	63 <sup>P.57</sup>
2351MFX6		12	1,2	BX8.4d	4008321096869	4008321096876	5	-	-	73 <sup>P.57</sup>
2352MFX6		12	2	BX8.4d	4008321097156	4008321097163	5	-	-	73 <sup>P.57</sup>
2431MFX6		12	1,3	BX8.4d	4008321298720	4008321298737	5	-	-	73 <sup>P.57</sup>
2452MFX6		12	1,5	BX8.4d	4008321097125	4008321097132	5	-	-	73 <sup>P.57</sup>
2473MFX6		12	1,1	BX8.4d	4008321096838	4008321096845	5	-	-	73 <sup>P.57</sup>
2721MF		12	1,2	B8.5d	4008321043085	4008321096753	5	-	-	74 <sup>P.57</sup>
2721MF-02B		12	1,2	B8.5d	4008321349545	4008321349552	-	-	10	74 <sup>P.57</sup>
2721MFX		12	1,2	BX8.5d	4008321297167	4008321297174	5	-	-	74 <sup>P.57</sup>
2722MF		12	2	B8.5d	4008321096807	4008321096814	5	-	-	74 <sup>P.57</sup>
2722MFX		12	2	BX8.5d	4008321297198	4008321297204	5	-	-	74 <sup>P.57</sup>
2723MFX6		12	2,3	BX8.4d	4008321297259	4008321297266	5	-	-	73 <sup>P.57</sup>
2752MF		12	1,5	B8.5d	4008321096777	4008321096784	5	-	-	74 <sup>P.57</sup>
2752MFX		12	1,5	BX8.5d	4008321298799	4008321298805	5	-	-	74 <sup>P.57</sup>
64122MF		12	3	B10d	4008321095114	4008321095121	5	-	-	75 <sup>P.57</sup>
64124MF		12	5	B10d	4008321101488	4008321101495	5	-	-	75 <sup>P.57</sup>

The suffix on the product reference indicates the board thickness:

MFX6: 1.5 mm  
MF: 2.0 mm  
MFX: 1.5 mm

1) Also available with glass base (product reference 6411150 or 6411350)



# OSRAM TRUCKSTAR® PRO

## Three requirements, one solution.

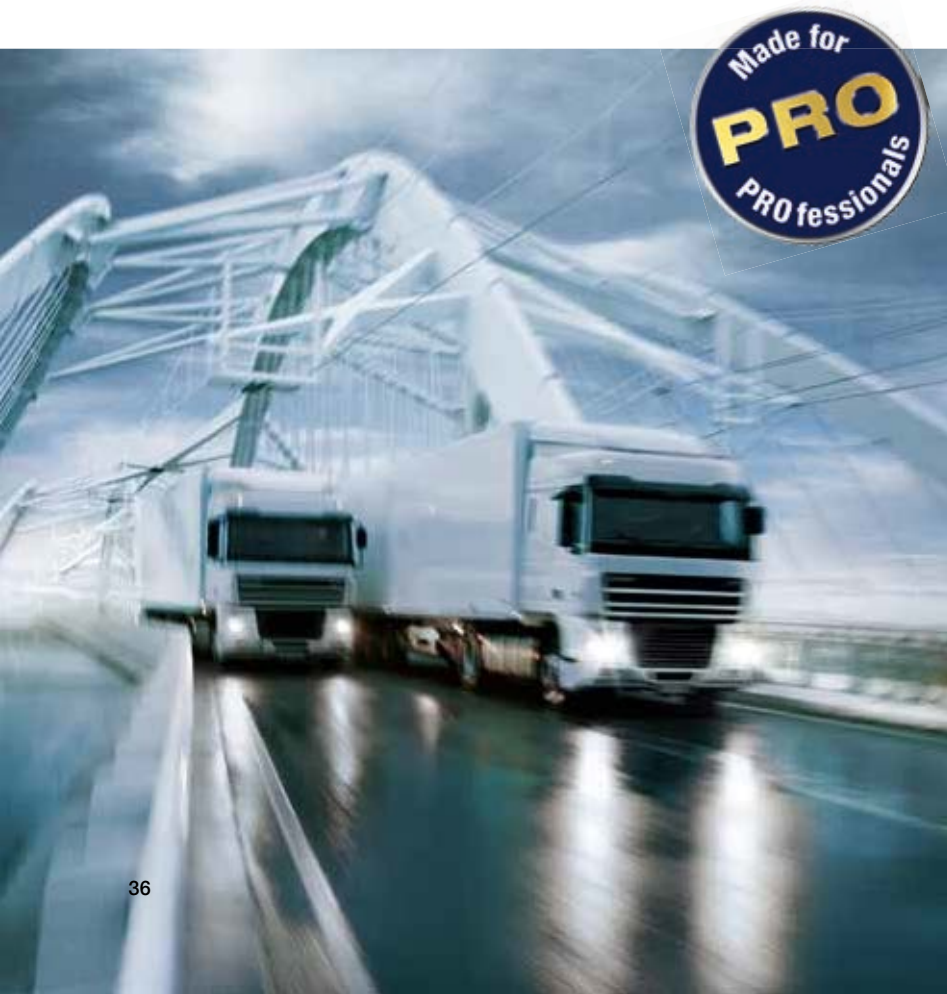
At night, truck drivers need the best possible light on the road ahead. OSRAM TRUCKSTAR® PRO is far ahead of conventional 24V lamps, allowing drivers to concentrate on the essentials. With its extremely long life and robust construction, it also saves on replacements, downtime and fleet costs.

### Twice as bright, more than twice as long

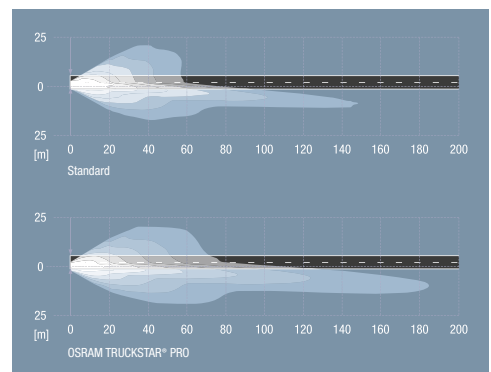
Compared with conventional 24 V lamps, the OSRAM TRUCKSTAR® PRO has a distinct advantage thanks to its patented single-coil technology. This technology results in up to 100 % more light on the road <sup>1)</sup>, making it much easier for truck drivers to concentrate – a massive benefit in terms of road safety. The uniform and up to 40m longer <sup>1)</sup> light beam enables dangers to be seen much sooner and gives drivers valuable extra time in which to react. OSRAM TRUCKSTAR® PRO is capable of withstanding strong vibrations, which saves time and money thanks to more than double the life <sup>1)</sup>.

### Robust power packs for enhanced safety.

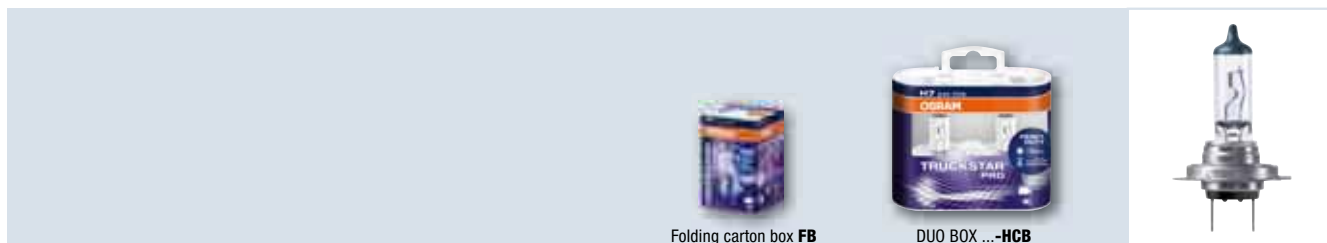
- Up to 100 % more light on the road <sup>1)</sup> thanks to patented single-coil technology (SC)
- More than twice the life of conventional 24 V lamps
- Greater safety thanks to better illumination of the road
- Lower costs thanks to reduced failure rates as a result of improved vibration resistance
- Cost/benefit calculator on the OSRAM homepage, [www.osram.com/truckstar-tool](http://www.osram.com/truckstar-tool)
- For drivers looking for heavy-duty/longlife lamps



Innovation made by OSRAM: Thanks to the new and patented single-coil technology (above right), the OSRAM TRUCKSTAR® PRO will last more than twice as long <sup>1)</sup> as lamps with conventional double coils (above left).



## OSRAM TRUCKSTAR® PRO product range

Folding carton box **FB**DUO BOX ...-**HCB**

Product reference	ECE	V	W		Product number Smallest unit	Product number Shipping unit		FB	-HCB		No.
64155TSP	H1	24	70	P14.5s	4008321784179	4008321784193		100	-		6 <sup>P.56</sup>
64155TSP-HCB	H1	24	70	P14.5s	4008321784209	4008321784216		-	10		6 <sup>P.56</sup>
64156TSP	H3	24	70	PK22s	4008321784261	4008321784285		100	-		10 <sup>P.56</sup>
64156TSP-HCB	H3	24	70	PK22s	4008321784292	4008321784308		-	10		10 <sup>P.56</sup>
64196TSP	H4	24	75/70	P43t	4008321785046	4008321785060		100	-		17 <sup>P.56</sup>
64196TSP-HCB	H4	24	75/70	P43t	4008321785077	4008321785084		-	10		17 <sup>P.56</sup>
64215TSP	H7	24	70	PX26d	4008321785114	4008321785138		100	-		22 <sup>P.56</sup>
64215TSP-HCB	H7	24	70	PX26d	4008321785145	4008321785152		-	10		22 <sup>P.56</sup>
64216TSP	H11	24	70	PGJ19-2	4052899904804	4052899904811		100	-		27 <sup>P.56</sup>
64216TSP-HCB	H11	24	70	PGJ19-2	4052899904644	4052899904651		-	10		27 <sup>P.56</sup>
3930TSP	T4W	24	4	BA9s	4008321795113	4008321795120		5	-		72 <sup>P.57</sup>
5627TSP	R5W	24	5	BA15s	4008321795168	4008321795175		5	-		55 <sup>P.57</sup>
5637TSP	R10W	24	10	BA15s	4008321795212	4008321795229		5	-		55 <sup>P.57</sup>
7511TSP	P21W	24	21	BA15s	4008321798114	4008321798121		5	-		46 <sup>P.57</sup>
7537TSP	P21/5W	24	21/5	BAY15d	4008321798145	4008321798152		5	-		47 <sup>P.57</sup>
7510TSP	PY21W	24	21	BAU15s	4008321798176	4008321798183		5	-		49 <sup>P.57</sup>
2845TSP	W5W	24	5	BAU15s	4008321798084	4008321798091		5	-		59 <sup>P.57</sup>

New

New

## OSRAM TRUCKSTAR® PRO Display

Individual stocking possible.  
Contact your OSRAM  
representative.



TRUCKSTAR® PRO floor display

1) Compared with standard lamps (depending on the headlight system)



# OSRAM ORIGINAL LINE 24V

## The classic for heavy loads

Customers world-wide place their trust in the performance of OSRAM ORIGINAL LINE 24 V lamps, as they combine absolutely reliable quality with a fair price.

### **Continuously safe and reliable**

OSRAM ORIGINAL LINE 24 V lamps continue to provide safe light thru all their lives, making them a balanced and economical solution for all standard requirements in the 24 V sector. The performance of inferior-quality lamps decreases over time, jeopardizing the safety of the driver, possibly without the driver being aware of this.

### **All-round quality**

- OEM quality
- Excellent price-to-performance ratio
- Successfully used in millions of new vehicles from renowned manufacturers
- Impressive brightness and reliability



## OSRAM ORIGINAL 24V headlight lamps / auxiliary lamps product range



Product reference	ECE	V	W		Product number Smallest unit	Product number Shipping unit		FB	-01B	-02B	 No.
64155	H1	24	70	P14.5s	4050300016498	4050300210148		100	-	-	6 <sup>P.56</sup>
64155-01B	H1	24	70	P14.5s	4050300925844	4008321142290		-	10	-	6 <sup>P.56</sup>
64156	H3	24	70	PK22s	4050300016535	4050300211244		100	-	-	10 <sup>P.56</sup>
64156-01B	H3	24	70	PK22s	4050300565811	4050300565828		-	10	-	10 <sup>P.56</sup>
64196	H4	24	75/70	P43t	4050300016542	4050300212289		100	-	-	17 <sup>P.56</sup>
64196-01B	H4	24	75/70	P43t	4050300925868	4008321142849		-	10	-	17 <sup>P.56</sup>
64196		24	75/70	P43t	4050300937724	4050300642376		100	-	-	17 <sup>P.56</sup>
94196	H4	24	75/70	P43t	4050300250632	4050300250656		100	-	-	17 <sup>P.56</sup>
64215	H7	24	70	PX26d	4050300386522	4050300386546		100	-	-	22 <sup>P.56</sup>
64215-01B	H7	24	70	PX26d	4050300925882	4008321141972		-	10	-	22 <sup>P.56</sup>
64175	H2	24	70	X511	4050300218960	4050300218984		100	-	-	8 <sup>P.56</sup>
64177	H15	24	20/60	PGJ23t-1	4008321536556	4008321536570		100	-	-	24 <sup>P.56</sup>
2741		24	1,2	W2x4.6d	4050300524900	4008321094889		5	-	-	62 <sup>P.57</sup>
2840		24	2	W2.1x9.5d	4008321094704	4008321094711		5	-	-	59 <sup>P.57</sup>
2841	W3W	24	3	W2.1x9.5d	4008321094735	4008321094742		5	-	-	59 <sup>P.57</sup>
2841-02B	W3W	24	3	W2.1x9.5d	4050300926025	4008321140388		-	-	10	59 <sup>P.57</sup>
2845	W5W	24	5	W2.1x9.5d	4050300891569	4008321094773		5	-	-	59 <sup>P.57</sup>
2845-02B	W5W	24	5	W2.1x9.5d	4008321139962	4008321139979		-	-	10	59 <sup>P.57</sup>
3930	T4W	24	4	BA9s	4050300525143	4008321095695		5	-	-	72 <sup>P.57</sup>
3930-02B	T4W	24	4	BA9s	4050300926001	4008321140302		-	-	10	72 <sup>P.57</sup>
5627	R5W	24	5	BA15s	4050300525167	4008321095367		5	-	-	55 <sup>P.57</sup>
5627-02B	R5W	24	5	BA15s	4050300925967	4008321140432		-	-	10	55 <sup>P.57</sup>
5637	R10W	24	10	BA15s	4050300525181	4008321095411		5	-	-	55 <sup>P.57</sup>
5637-02B	R10W	24	10	BA15s	4050300926049	4008321140463		-	-	10	55 <sup>P.57</sup>
64138	H21W	24	21	BAY9s	4008321094995	4008321095008		5	-	-	64 <sup>P.57</sup>
6421		24	3	SV8.5-8	4008321090775	4008321090782		5	-	-	68 <sup>P.57</sup>
6423	C5W	24	5	SV8.5-8	4050300525204	4008321094322		5	-	-	65 <sup>P.57</sup>
6423-02B	C5W	24	5	SV8.5-8	4050300925981	4008321140487		-	-	10	65 <sup>P.57</sup>
6424		24	5	SV8.5-8	4050300891729	4008321090829		5	-	-	68 <sup>P.57</sup>
6429		24	10	SV8.5-8	4008321090843	4008321090850		5	-	-	68 <sup>P.57</sup>
6430		24	3	SV7-8	4008321094520	4008321094537		5	-	-	66 <sup>P.57</sup>
7511	P21W	24	21	BA15s	4050300525228	4008321090980		5	-	-	46 <sup>P.57</sup>
7511-02B	P21W	24	21	BA15s	4050300925929	4008321140500		-	-	10	46 <sup>P.57</sup>
7529		24	15	BA15s	4050300891781	4008321091048		5	-	-	45 <sup>P.57</sup>
7537	P21/5W	24	21/5	BAY15d	4050300524863	4008321091109		5	-	-	47 <sup>P.57</sup>
7537-02B	P21/5W	24	21/5	BAY15d	4050300925943	4008321141545		-	-	10	47 <sup>P.57</sup>
2741MF		24	1,2	B8.5d	4050300891613	4008321097200		5	-	-	74 <sup>P.57</sup>
2741MFX		24	1,2	BX8.5d	4008321297228	4008321297235		5	-	-	74 <sup>P.57</sup>

The suffix on the product reference indicates the board thickness:

MF: 2.0 mm  
MFX: 1.5 mm



# OSRAM SPECIAL OFF-ROAD LAMPS

## Versatility from OSRAM

Rally and HYPER lamps from OSRAM are ideal when the going gets tough. Even away from public roads, OSRAM can offer solutions for the most unusual requirements.

### OSRAM special OFF-ROAD lamps

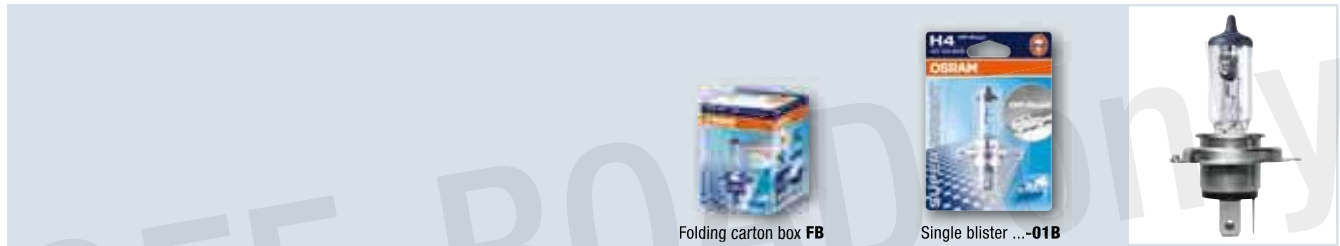
Stay flexible away from public roads. Rally lamps<sup>1)</sup> from OSRAM offer excellent reliability and brightness even on the most difficult terrain. For design-conscious OFF-ROAD drivers, OSRAM offers the 5,000 K COOL BLUE<sup>®</sup> HYPER lamps. These lamps are not approved for use on public roads however. Use on public roads leads to cancellation of the operating license and to loss of insurance coverage<sup>1)</sup>. To make OFF-ROAD vehicles more versatile, OSRAM offers the NIGHT BREAKER<sup>®</sup> PLUS family of lamps or COOL BLUE<sup>®</sup> INTENSE for bluish lamps as approved high-brightness alternatives.

### High-performance halogen headlight lamps<sup>1)</sup> and their alternatives

- Wide range of applications: rescue services, construction and transport work, agriculture and forestry
- For the design-conscious OFF-ROAD driver
- Not approved for use on public roads
- Approved alternatives: NIGHT BREAKER<sup>®</sup> PLUS and COOL BLUE<sup>®</sup> INTENSE families of lamps in the 12V sector and OSRAM TRUCKSTAR<sup>®</sup> PRO in the 24V sector





High performance headlamps for rally and professional use <sup>1)</sup> – product range

Product reference	V	W		Product number Smallest unit	Product number Shipping unit		FB	-01B		No.
62200	12	100	P14.5s	4050300247854	4050300247878		100	-	6	P.56
62200-01B	12	100	P14.5s	4008321336224	4008321336231		-	10	6	P.56
62201	12	100	PK22s	4050300247939	4050300247953		100	-	10	P.56
62203	12	100/80	P43t	4050300247960	4050300247984		100	-	17	P.56
62203-01B	12	100/80	P43t	4008321185723	4008321185730		-	10	17	P.56
62203CP	12	100/80	P43t	4008321173539	4008321173553		100	-	17	P.56
62203ALL	12	100/80	P43t	4050300528625	4050300528649		100	-	17	P.56
64203	12	100/80	P45t	4050300239446	4050300239460		100	-	18	P.56
64205	12	65/70	P43t	4050300453767	4050300453781		100	-	17	P.56
64206	12	80/85	P43t	4050300453798	4050300453811		100	-	17	P.56
64217	12	65	PX26d	4050300524399	4050300524412		100	-	22	P.56
64218	12	65	PX26d	4050300526195	4050300526201		100	-	22	P.56
64152 <sup>2)</sup>	12	100	PX14.5s	4050300222738	4050300222752		100	-	6	P.56
64153 <sup>3)</sup>	12	100	PKY22s	4050300222837	4050300222851		100	-	10	P.56
64194 <sup>3)</sup>	12	100/80	PU43t	4050300225852	4050300225876		100	-	17	P.56
64198	12	60/55	P45t	4050300222028	4050300222042		100	-	18	P.56
64199	24	75/70	P45t	4050300219899	4050300219912		100	-	18	P.56
64203	12	100/80	P45t	4050300937755	4050300642215		100	-	18	P.56
64206ALL	12	80/85	P43t	4050300453644	4050300453668		100	-	17	P.56
64217	12	65	PX26d	4050300524399	4050300524412		100	-	22	P.56
64217-01B	12	65	PX26d	4008321336248	4008321336255		-	10	22	P.56
62248	24	100/90	P43t	4008321189608	4008321189622		100	-	17	P.56

OSRAM COOL BLUE® HYPER <sup>1)</sup> product range

Product reference	V	W		Product number Smallest unit	Product number Shipping unit		FB	-HCB		No.
62150CBH-HCB	12	55	P14.5s	4008321276568	4008321276575		-	10	7	P.56
62151CBH-HCB	12	70	PK22s	4008321580511	4008321580528		-	10	11	P.56
62193CBH-HCB	12	60/55	P43t	4008321276582	4008321276599		-	10	15	P.56
62210CBH-HCB	12	55	PX26d	4008321276629	4008321276636		-	10	20	P.56

1) These products do not have ECE approval.

This means that they cannot be fitted in "normal" headlights or additional headlights if the vehicle is to be used on public highways. | OFF-ROAD only. | Not for use on public roads

2) 2600 lm | Allgemein: Im Geltungsbereich der StVZO

3) Generally on normal roads

# OSRAM MINIBOX

## Mobile lamp replacement

Defects in an automobile usually make themselves known on long journeys. The OSRAM MINIBOX saves you the trouble of searching for a suitable workshop to purchase replacement lamps. You can therefore easily fix the problem yourself.

### Always fully equipped

It is a statutory requirement in the following countries that spare lamps must be carried: With a spare lamp kit from OSRAM, you will always have the right lamps for your vehicle. The label tells you what the kit contains, together with technical data. The picture on the back shows which lamp should go where. The MINIBOX has an ergonomic shape and exclusive design.

### Perfectly-equipped with a mobile reserve

- With the lamp kit, you will always have the right spare lamps to hand
- Easy replacement by the roadside
- Easy identification through clear labeling and application illustration



### Spare lamps - mandatory in several countries:

#### Mandatory:

- Macedonia
- Montenegro
- Serbia
- Spain

#### Requirement except for xenon lights and LED:

- Croatia
- Russia

#### Recommended:

- France
- Norway
- Portugal
- Slovenia
- Czech Republic
- Hungary

Date 05/2012



reddot design award  
winner 2009



## OSRAM MINIBOX

Each spare lamp kit for cars contains the same set of the five most important lamps plus three fuses:

7506	P21W	Brake and taillight
7507	PY21W	Indicator light, amber
7528	P21/5W	Brake/taillight
5007	R5W	Taillight and numberplate light
2825	W5W	Parking light
Flat fuses 15A, 20A, 30A		



The **H1 box** is equipped with one **H1** headlight lamp and contains the above 5 spare lamps and 3 flat fuses

Product No. (EAN)

4050300875217

64150	H1	Main halogen headlight lamp
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The **H4 box** is equipped with one **H4** headlight lamp and contains the above 5 spare lamps and 3 flat fuses

4050300873398

64193	H4	Main halogen headlight lamp
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The **H7 box** is equipped with one **H7** headlight lamp and contains the above 5 spare lamps and 3 flat fuses

4050300876375

64210	H7	Main halogen headlight lamp
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## OSRAM MINIBOX Displays

**MINIBOX acrylic display** (W x H x D: 240 x 465 x 210 mm)

Contents: 6 x H7 MINIBOX, 6 x H4 MINIBOX

4008321940353

**MINIBOX floor display** (W x H x D: 842 x 1490 x 385 mm)

Contents: 12 x H1, 24 x H4, 24 x H7 MINIBOX

4008321341983

MINIBOX acrylic display



MINIBOX floor display



# OSRAM Spare lamp kit 24V

## Reserve light for trucks and buses

Professional truck drivers in particular rely on spare lamp kits from OSRAM. They can be used to repair faults without assistance or major work, wherever required.

### Always fully equipped

Drivers who always have the right spare lamps with them will save themselves the trouble of taking their vehicles into a garage for replacements. The savings in time and money are considerable, especially on journeys abroad.

### Perfectly-equipped with a mobile reserve

- With the spare lamp kits, you've always got the right spare lamps to hand
- Easy replacement by the roadside
- Easy identification by clear labeling and application illustration



### Spare lamps - mandatory in several countries:

#### Mandatory:

- Macedonia
- Montenegro
- Serbia
- Spain

#### Requirement except for xenon lights and LED:

- Croatia
- Russia

#### Recommended:

- France
- Norway
- Portugal
- Slovenia
- Czech Republic
- Hungary

Date 05/2012



OSRAM Spare lamp box 24V

**Each 24 V lamp box contains a double set of each of the 6 most important vehicle lamps as well as 3 flat fuses:**

7511	P21W	Brake and taillight
7510TSP	PY21W	Indicator light, amber
7537	P21/5W	Brake/taillight
5627	R5W	Taillight and numberplate light
5637	R10W	Parking light
3930	T4W	Park and position light
		Flat fuses 15A, 20A, 30A

**Product No. (EAN)**



The **H4 box** is equipped with two **H4** headlight lamps and contains the above double sets of spare lamps and flat fuses

4008321**583192**

64196	H4	Main halogen headlight lamp
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The **H7 TRUCKSTAR® PRO box** is equipped with two **H7** headlight lamps and contains the above double sets of spare lamps and flat fuses

4008321**785114**

64215TSP	H7	Main halogen headlight lamp
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The **H7 box** is equipped with two **H7** headlight lamps and contains the above double sets of spare lamps and flat fuses

4008321**583215**

64215	H7	Main halogen headlight lamp
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# OSRAM Automotive Lamp Cabinet

## Perfect order for easy access

Robust construction, individual stocking: The ALC offers clear and easy access to the OSRAM 12 Volt or 24 Volt product range.

### It couldn't be easier

The compact, multi-functional ALC is at home everywhere, simplifying work: Find the right lamp for any standard car or truck, remove it and check the functionality – all in a single step.

### The ideal working aid

- Clear lamp arrangement
- Slot system for easy removal
- Drawers for additional
- lamp tester available as an option
- Available with or without lock





The practical lamp tester is available as an option.



Suggested stock 12V

Product reference	Name	Number of lamps
<b>Slot system</b>		
66144	D1S XENARC® ORIGINAL	1
66240	D2S XENARC® ORIGINAL	1
64150	H1 ORIGINAL	4
64150NBP	H1 NIGHT BREAKER® PLUS	3
64150CBI	H1 COOL BLUE® INTENSE	1
64150ULT	H1 ULTRA LIFE	3
64151	H3 ORIGINAL	6
64151NBP	H3 NIGHT BREAKER® PLUS	2
64151CBI	H3 COOL BLUE® INTENSE	1
64193	H4 ORIGINAL	9
64193NBP	H4 NIGHT BREAKER® PLUS	4
64193CBI	H4 COOL BLUE® INTENSE	2
64193ULT	H4 ULTRA LIFE	4
64210	H7 ORIGINAL	8
64210NBP	H7 NIGHT BREAKER® PLUS	5
64210CBI	H7 COOL BLUE® INTENSE	2
64210ULT	H7 ULTRA LIFE	5
<b>Small drawers</b>		
3893	T4W	10
2821	W3W	10
2827	WY5W	10
2825	W5W	10
2825ULT	W5W ULTRA LIFE	10
<b>Large drawers</b>		
7506	P21W	10
7507	PY21W	10
7225	P21/4W	10
7528	P21/5W	10
5007	R5W	10
5008	R10W	10
6418	C5W	10

Suggested stock 24V

Product reference	Name	Number of lamps
<b>Slot system</b>		
66144	D1S XENARC® ORIGINAL	1
33240	D2S XENARC® ORIGINAL	1
64155	H1 ORIGINAL	5
64155TSP	H1 TRUCKSTAR® PRO	5
64156	H3 ORIGINAL	5
64156TSP	H3 TRUCKSTAR® PRO	5
64196	H4 ORIGINAL	8
64196TSP	H4 TRUCKSTAR® PRO	11
64215	H7 ORIGINAL	9
64215TSP	H7 TRUCKSTAR® PRO	11
<b>Small drawers</b>		
3930	T4W	10
3930TSP	T4W TRUCKSTAR® PRO	10
2845	W5W	10
2841	W3W	10
<b>Large drawers</b>		
7511	P21W	10
7537	P21/5W	10
5627	R5W	10
5627TSP	R5W TRUCKSTAR® PRO	10
5637	R10W	10
6423	C5W	10
6429	Soffitte 10W	10

Product reference	Dimensions (W x H x D)	Product number Single pack
ALC without lock	405 x 572 x 190 mm	4008321 <b>694355</b>
ALC with lock	405 x 572 x 190 mm	4008321 <b>694362</b>
Lamp tester 50X1	-	4008321 <b>786951</b>

# OSRAM Shelf Rack

## Lamp store for workshops and POS

The particularly clear and easy-to-use Shelf Rack offers space for the most important passenger car or truck lamps from OSRAM, and each has a corresponding, attractive label top.

### Practical working aid and successful sales promoter

Depending on its location, the OSRAM Shelf Rack ensures that working in the workshop is easier or that customers notice the OSRAM 12 V or 24 V range of lamps for passenger cars more quickly at the POS. Thanks to its modular design, the extremely stable, high-quality shelf can be installed, stocked and also expanded quickly and flexibly.

### Extremely practical and particularly attractive

- With drawers and EAN labels
- Row of hooks for presenting blister packs, DUO BOXES, new products
- Ideal for workshops and filling stations, practical for everyday use
- High-quality material and eye-catching design, ideal OSRAM in-store placement

Product reference	Dimensions (W x H x D)	Product number Shipping unit
<b>Shelf Rack</b>		
SHELF RACK	920 x 900 x 580 mm	4008321211248





# OSRAM MINIWATT assortment boxes

## Lamp supply for mobile use

All standard MINIWATT® lamps, split into 12V and 24V: The robust OSRAM assortment boxes save time in everyday use and are an essential item in any workshop.

### Well-sorted and highlighted in color

The OSRAM MINIWATT® assortment boxes allow particularly quick, mobile access to the most frequently required MINIWATT® lamps for passenger cars and trucks.

### The whole product range at your fingertips, the most important data at a glance

- 12V assortment box: 18 different MINIWATT® lamps for passenger cars (total of 180 lamps)
- 24V assortment box: 7 different MINIWATT® lamps for passenger cars (total of 100 lamps)
- Equipment overview with the most important technical data directly in the box

Product reference	Contents	Dimensions (W x H x D)	Product number Single pack	Product number Shipping unit	
<b>MINIWATT® product range box</b>					
509961 (12 Volts)	180 lamps	240 x 43 x 190 mm	4008321 <b>082169</b>	4008321 <b>082176</b>	3
509962 (24 Volts)	100 lamps	175 x 33 x 140 mm	4008321 <b>082183</b>	4008321 <b>082190</b>	3





## OSRAM – a partner for retailers

For consumers, the name of OSRAM has always stood for expertise in automotive lighting combined with an innovative range of lamps. OSRAM also supports retailers with effective marketing strategies and excellent sales logistics. Business partners therefore have the perfect basis for increasing their sales and customer satisfaction.

### A unified approach

As part of its holistic approach to marketing, OSRAM provides the trade sector, shops and workshops with a large number of tools to ensure the best possible support, attractive presentation and greater incentive to purchase. In addition, OSRAM makes use of continuous advertising campaigns, radio advertising and e-marketing activities in the end customer advertising sector.

### OSRAM self-service range

The new packaging for the self-service range is not only stylish, it is also consumer-friendly, informative and eco-friendly. Language-neutral pictograms provide consumers with information on product characteristics that is easy to understand.

### Displays and secondary placement

Customers can find precisely what they want here. The impressive, high-quality displays and secondary placements present products in a clear way with clear information. The counter displays take up little space but are eye-catching and practical. The floor display provides space for a wide range of products.

### Perfect product presentation

Your requirements in the sales room are as unique as our solutions. The “beamer rack” for example is an impressive way of showing customers the difference between OSRAM NIGHT BREAKER® PLUS, OSRAM COOL BLUE® INTENSE and OSRAM ORIGINAL. There are also informative decoration materials such as wobblers and shelf stoppers that immediately catch the eye.

### Automotive lamp cabinet and application list

The automotive lamp cabinet from OSRAM is a practical lamp depot for retail outlets, filling stations and workshops. It can be stocked to suit its location. OSRAM provides an application list for workshops so the right lamps can be selected for each vehicle.



**Individually tailored**

To give trade partners an opportunity to raise their profiles among workshops, OSRAM runs individual campaigns that address specific customer needs. OSRAM also supports its partners with end consumer activities and exclusive product campaigns. In this regard, OSRAM participates as the official partner in the nationwide German “Light Test” campaign run by the German Association for Motor Trades and Repairs.

**A love of detail**

Additionally, OSRAM makes all article data available for electronic ordering under TecCom and TecDoc. We can set

up classic EDI networks on request. Our ordering system also supports the CAP message standard. For further information about OSRAM, go to [www.osram.com](http://www.osram.com) or the e-business platform at [www.myosram.com](http://www.myosram.com) where you can also place orders easily and directly. Contact OSRAM for further information.

**You can rely on us**

For OSRAM, being a partner for retailers is not an empty slogan, it is a genuine maxim backed by a wide range of activities and campaigns. In OSRAM, retailers have a partner they can rely on at all times.



# Product presentation and demonstrations breathe new life into your automotive lamp business

Stimulate attention, awaken interest, promote sales: modern POS tools make the innovative OSRAM Automotive product range especially attractive, allowing successful presentation and demonstration.

### Clearly spectacular, simply illuminating

Customers can test and compare the special strengths of OSRAM products at the POS and receive useful, convincing

information – and find the products they are looking for quickly and easily.

#### OSRAM Light Performance Boxes

Impressive light strength comparison: Your best sales' argument is to experience quality live.

“Xenon” version:

Comparison of XENARC® ORIGINAL with XENARC® COOL BLUE® INTENSE or XENARC® SILVERSTAR®.

“Halogen” version:

Comparison of OSRAM ORIGINAL with COOL BLUE® INTENSE or NIGHT BREAKER® PLUS.



Dimensions (W x H x D): 40 x 33 x 25 cm

#### LED Retrofits Display

Compares conventional lamps for interior lighting<sup>1)</sup> with the new LED Retrofits with 4000 K and 6000 K.



Dimensions (W x H x D): 20 x 30 x 9 cm

#### LED daytime running light display

Shows the effect of LED daytime running lights when switched on.



Dimensions (W x H x D): 20 x 17 x 11 cm

### LCD displays

Active consumer communication: information, advice and entertainment at the point of sale. Combined with the high attention value of modern multimedia technology. Ideal for secondary placement.

The LCD monitor is available in two versions:

- A compact version for installation in shelving
- An eye-catching version for attaching to a ceiling



LCD monitor for installation in shelving  
Dimensions (W x H x D) 7 inches:  
34.5 x 16.5 x 8.5 cm.  
Dimensions (W x H x D) 10.2 inches:  
40 x 30.5 x 14 cm.



LCD monitor for attaching to a ceiling  
Dimensions (W x H x D):  
43.5 x 61 x 4 cm.

### OSRAM *polePOStion*® AM shelf

#### Consumer-friendly, greater flexibility and higher profits

Clearly structured, easily accessible and extremely convenient presentation system. Clear design and clear communication. Your customers can find the information and lamps they require quickly.

#### Test and buy

The integrated beamer rack in the center of the shelf enables customers to test OSRAM NIGHT BREAKER® PLUS, OSRAM COOL BLUE® INTENSE and OSRAM ORIGINAL lamps directly at the POS.

#### As you like it. Tailor-made shelf system

Every shop is different and every location follows its own rules. The OSRAM *polePOStion*® shelf system offers a professional solution that is highly versatile and can be adapted to suit your particular space requirements.

Ask your OSRAM representative.



1) Only approved for use in interiors or off-road

Whether it's a blister pack, a double blister pack or a DUO BOX, the strong appearance of the new OSRAM designs has a twofold effect: eye-catching from a distance and persuasive information when seen up close.

The tried and tested blue background color offers a high level of brand recognition.

The ECE reference, voltage and wattage are shown boldly and clearly at the top left as important search criteria.

The name of the product family is shown boldly and clearly on the left-hand edge.

Product characteristics emphasize the added value of a particular lamp.

Bulb shape and base are clearly visible.

Protective effect – the blister offers excellent protection for the lamp.

Instant recognition of the product benefits.

Gleaming silver particles underline the high-quality design of our trademark-protected packaging.

**Even more information at second glance**

Type and order reference.

Reminder: "Always replace in pairs".

NEW: The added value of the appropriate lamp compared to the standard product is explained in pictograms - comparison of luminous intensity, beam length, light color and service life.

Quality indicator – original spare part in OEM quality.

Reminder: "Made in Germany".

Application notes and safety information.

**Prominent brand placement**

**The picture logo**

One of the oldest trademarks in Germany stands for premium quality.





**The band**

The orange band – as a seal of quality, it is placed prominently at the top of the packaging. It indicates the brand promise and ensures instant recognition.



# Ordering by EAN code

The EAN code defines a set of unique international product numbers and is managed by an independent organization. Thanks to its worldwide use and high level of acceptance, it is ideal for identifying products and makes ordering convenient. The product number is used to order a particular consumer unit, so it basically corresponds to the old order number.

		<b>OSRAM</b>	
<b>BILUX® H4</b>			
<b>12V · 60/55W · P43t</b>			
<b>64193</b>			
<b>pieces</b>	<b>Art.No.</b>	<b>4050300 001470</b>	
<b>1</b>	<b>Multipack</b>	<b>4050300 212067</b>	
<b>10 (10 x 1)</b>	<b>Shipping box</b>	 4 050300 212074	
<b>100</b>			
<b>(10 x 10)</b>			
 (02)04050300001470(37)100			
<b>www.osram.com</b>			
OSRAM GmbH Steinerne Furt 62 86167 Augsburg Germany			
 (93)A56941C0002			
Made in Germany		<b>A 569 41C 00 02</b>	

- 1 Product number = 1 lamp in folded box or 1 blister
- 2 Multipack = 10 FBs (folded boxes)
- 3 Shipping box = 100 FBs (folded boxes)

How many lamps do you order with the product number?



Product number (consumer unit) corresponds to 1 folded box with 1 lamp



Product number (consumer unit) corresponds to 1 lamp (multipack contains 10 lamps)

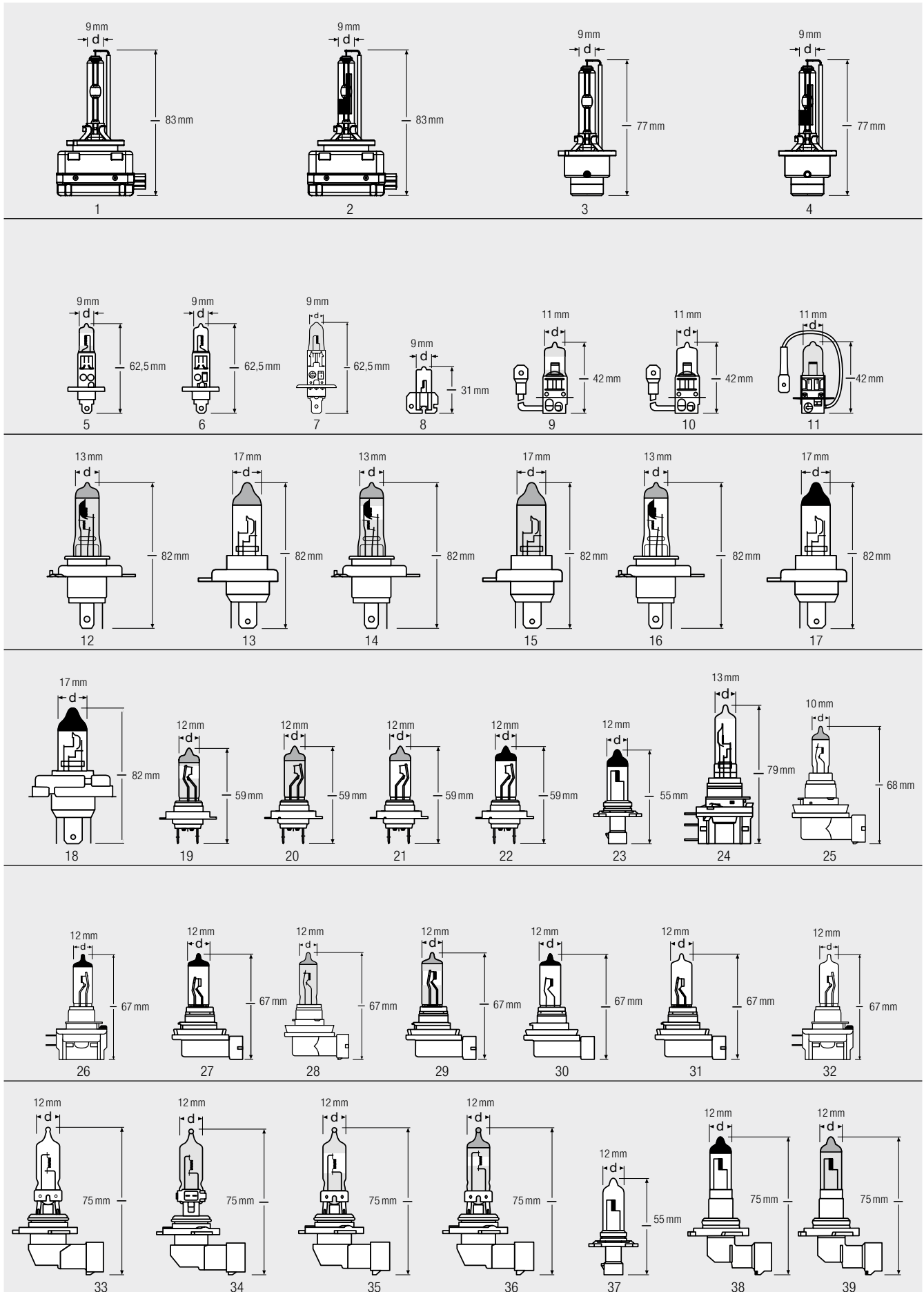


Product number (consumer unit) corresponds to 1 blister with 1 lamp

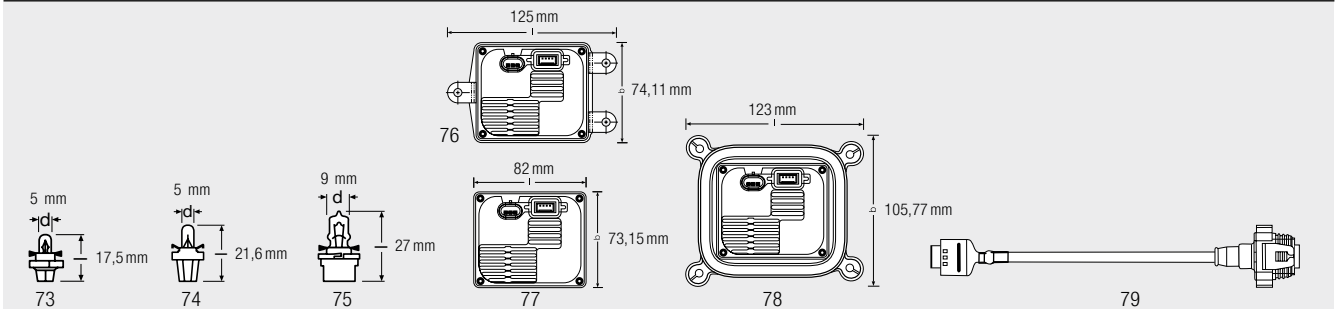
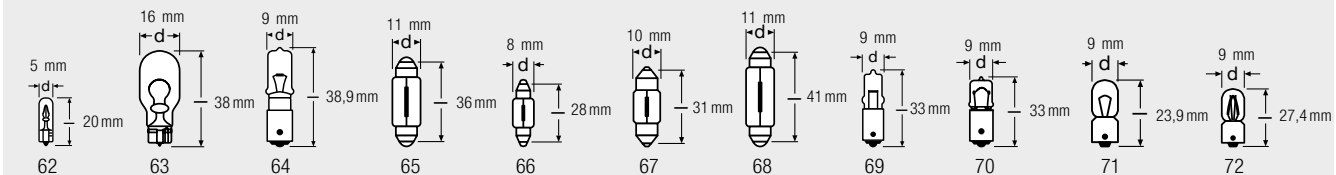
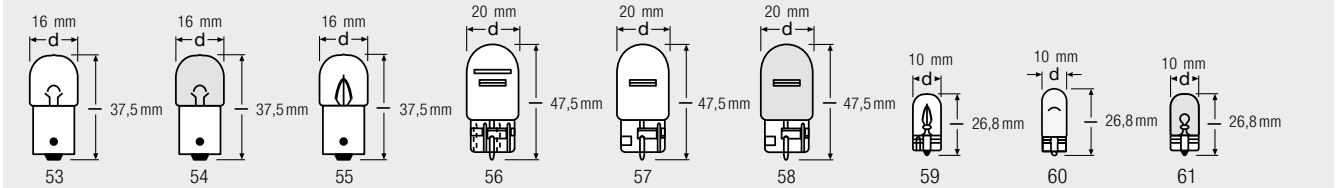
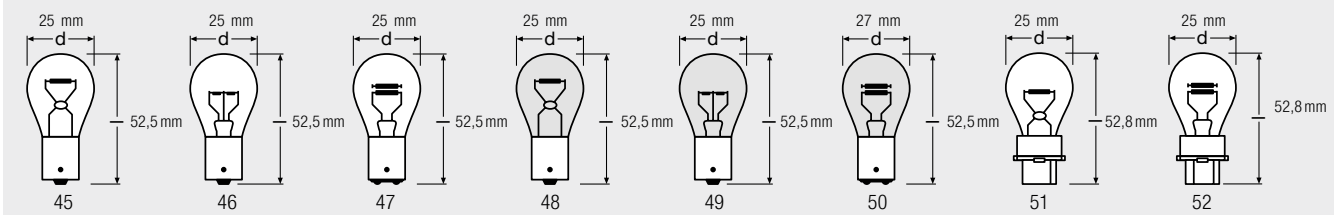
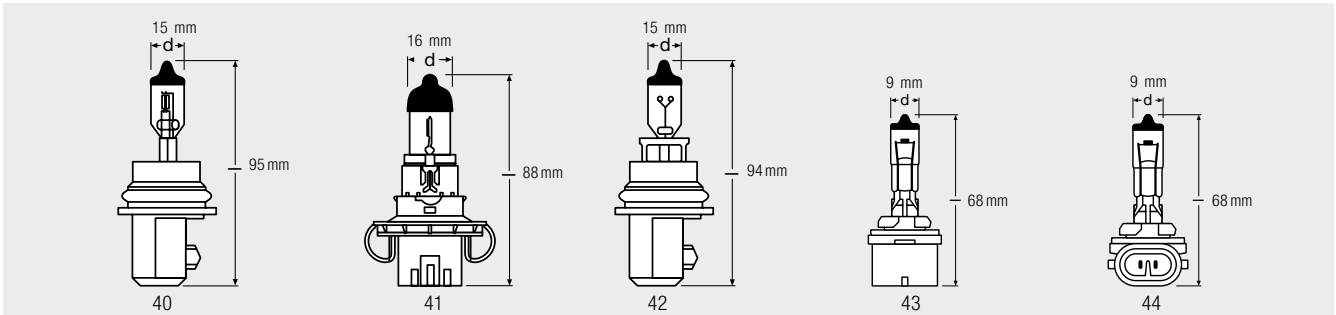


Product number (consumer unit) corresponds to 1 blister with 2 lamps

# LAMP OVERVIEW







**1**=D1S, D3S, D8S | **2**=D1R, D3R | **3**=D2S, D4S | **4**=D2R, D4R | **5**=H1NBP | **6**=H1 | **7**=H1CBI | **8**=H2 | **9**=H3NBP | **10**=H3 | **11**=H3CBI | **12**=H4CBI | **13**=H4 Silver cap, H4 ULT  
**14**=H4NBP, H4NRP | **15**=H4XR | **16**=H4SV2, HS1SVS | **17**=H4, HS1, HB2 | **18**=R2 | **19**=H7NBP, H7NRP | **20**=H7CBI, H7XR | **21**=H7SV2, H7 ULT | **22**=H7 | **23**=HB4A | **24**=H15  
**25**=H16 | **26**=H11B, H8B | **27**=H11, H11SV2 | **28**=H11CBI | **29**=H11NBP | **30**=H8 | **31**=H9 | **32**=H9B | **33**=HB3 | **34**=HB3CBI | **35**=HB3NBP | **36**=HB4NBP | **37**=HB3A  
**38**=HB4, H10 | **39**=HB4CBI | **40**=9007, HB5 | **41**=H13 | **42**=9004XV, HB1 | **43**=H27W/1 | **44**=H27W/2 | **45**=P21W, 7529 | **46**=P21W 24V | **47**=P21/4W, P21/5W  
**48**=PY21W, PR21W | **49**=PY21WTS | **50**=PR21/5W | **51**=P27W | **52**=P27/7W | **53**=R5W, R10W 12V | **54**=RY10W | **55**=R5W, R10W 24V | **56**=W21/5W | **57**=W21W  
**58**=WY21W | **59**=W3W, 2820, 2840, W5W, 2886X | **60**=W5WCBI | **61**=WY5W | **62**=2721, 2722, 2723, 2741 | **63**=W16W | **64**=H21W | **65**=C5W, 6461 | **66**=6428, 6430  
**67**=6438 | **68**=6411, 6413, 6421, 6424, 6429 | **69**=64115, 64111, 64113 | **70**=H6W | **71**=3796, 3860, 3893, 3930 | **72**=T4W | **73**=2351MFX6, 2352MFX6, 2431MFX6,  
 2452MFX6, 2473MFX6, 2723MFX6 | **74**=2721MF, 2721MFX, 2722MF, 2722MFX, 2741MF, 2741MFX, 2752MF, 2752MFX | **75**=64122, 64124 | **76**=XT5-3-D1/12V T3,  
 XT5-3-D1/24V TAB | **77**=XT5-1-D1/12V, XT5-1-D1/24V | **78**=XT5-2-D1/12V BH, XT5-2-D3/12V BH, 35XT6-S-D3/12V, 25XT6-A/12V | **79**=V-J1D-240-J2A, M-J1A-260-J2B,  
 O-J1D-165-J2A

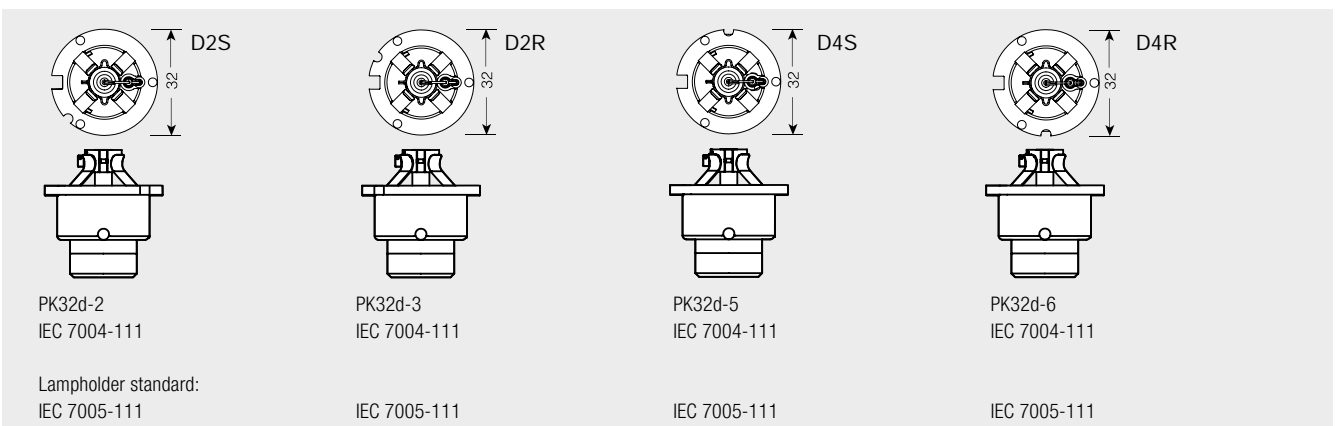
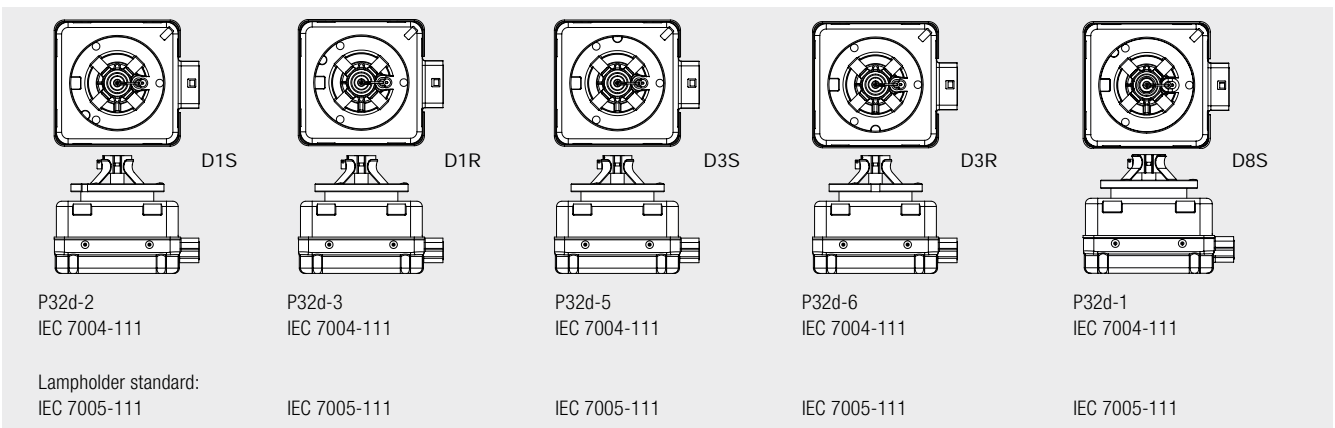
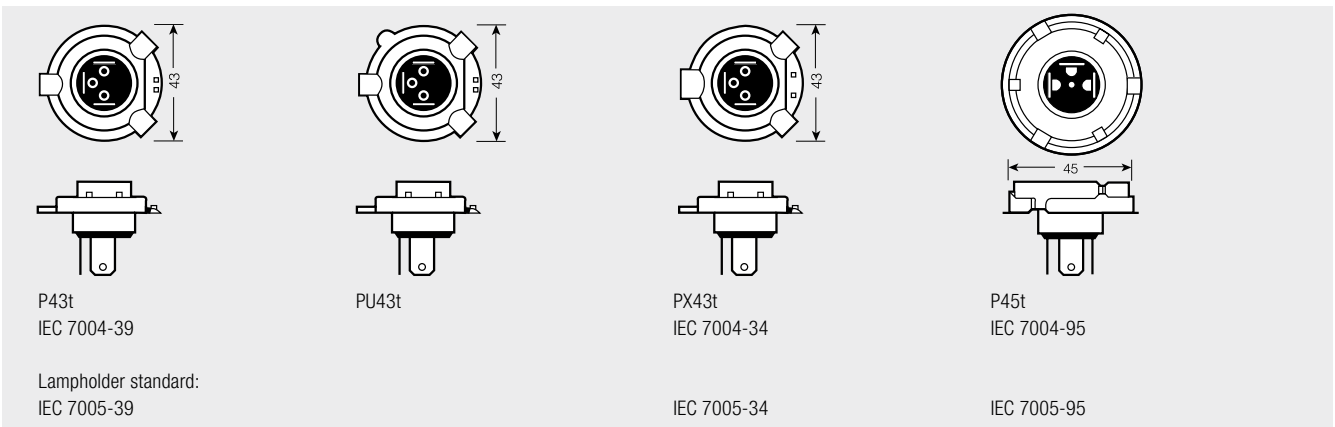
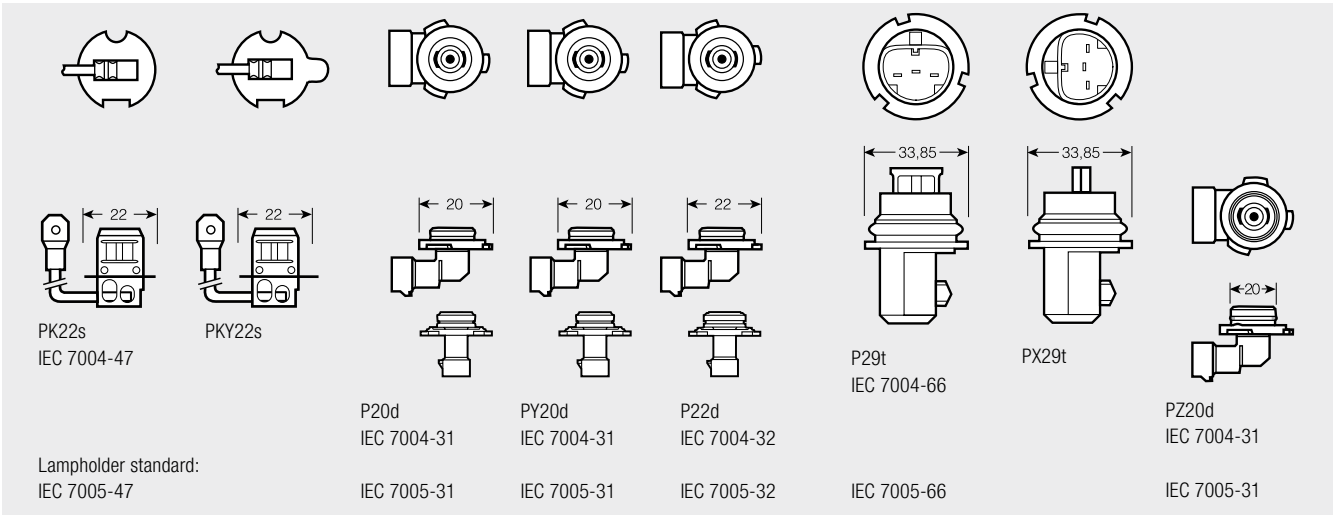
## BASES IEC/EN 60061-1, LAMPHOLDERS IEC/EN 60061-2

SV7-8 IEC 7004-80	SV8.5-8 IEC 7004-81	W2x4.6d IEC 7004-94	W2.1x9.5d IEC 7004-91	W2.5x16d IEC 7004-104	W2.5x16q IEC 7004-104
Lampholder standard: IEC 7005-80		IEC 7005-94	IEC 7005-91	IEC 7005-104	IEC 7005-104

BA9s IEC 7004-14	BAY9s IEC 7004-9	BAX9s IEC 7004-8	B8.4-12.5 BX8.4-12.5	B8.5d BX8.5d
Lampholder standard: IEC 7005-12			IEC 7004-140 IEC 7005-140	

BA15s IEC 7004-11A	BAU15s IEC 7004-19	BAW15s IEC 7004-11 E	BAY15d IEC 7004-11 B	BAZ15d IEC 7004-11 C	BAW15d IEC 7004-11 E	BA20d IEC 7004-12
Lampholder standard: IEC 7005-13		IEC 7005-13	IEC 7005-13	IEC 7005-13	IEC 7005-13	IEC 7005-14



P14.5s IEC 7004-46	P26s IEC 7004-36	PX13.5s IEC 7004-35	PGJY19-2 PGJY19-5 PGJY19-1	PJ26.4t	PGJ23t-1	
Lampholder standard: IEC 7005-46		IEC 7005-36	IEC 7005-35	IEC 7004-146 IEC 7005-146	IEC 7004-128 IEC 7005-128	IEC 7004-155 IEC 7005-155
PX14.5s	PX26d IEC 7004-5	PGJ 19 PGJ 19-1 PGJ 19-2 PGJ 19-5 IEC 7004-110	IEC 7005-5	IEC 7005-110		





# Type overview by rated voltage

V	W		Product reference	 No.	
	35		PK32d-2	66140SVS <sup>1) 10)</sup>	1 <sup>P.56</sup>
	35		PK32d-2	66144 <sup>1) 10)</sup>	1 <sup>P.56</sup>
	35		PK32d-2	66144CBI <sup>1) 10)</sup>	1 <sup>P.56</sup>
	35		PK32d-3	66154 <sup>2) 10)</sup>	2 <sup>P.56</sup>
	35		PK32d-3	66154CBI <sup>1) 10)</sup>	2 <sup>P.56</sup>
	35		P32d-2	66240 <sup>1) 10)</sup>	3 <sup>P.56</sup>
	35		P32d-2	66240CBI <sup>1) 10)</sup>	3 <sup>P.56</sup>
	35		P32d-2	66240SVS <sup>1) 10)</sup>	3 <sup>P.56</sup>
	35		P32d-3	66250 <sup>2) 10)</sup>	4 <sup>P.56</sup>
	35		P32d-3	66250CBI <sup>2) 10)</sup>	4 <sup>P.56</sup>
	35		PK32d-5	66340 <sup>1) 10)</sup>	1 <sup>P.56</sup>
	35		PK32d-6	66350 <sup>2) 10)</sup>	2 <sup>P.56</sup>
	35		P32d-5	66440 <sup>1) 10)</sup>	3 <sup>P.56</sup>
	35		P32d-6	66450 <sup>2) 10)</sup>	4 <sup>P.56</sup>
	25		PK32d-1	66548 <sup>2) 10)</sup>	1 <sup>P.56</sup>
12	1		W2.1x9.5d	2850CW <sup>15)</sup>	59 <sup>P.57</sup>
12	1		W2.1x9.5d	2850WW <sup>15)</sup>	59 <sup>P.57</sup>
12	1		BA9s	3850CW <sup>15)</sup>	72 <sup>P.57</sup>
12	1		BA9s	3850WW <sup>15)</sup>	72 <sup>P.57</sup>
12	1		SV8.5-8	6498CW <sup>15)</sup>	65 <sup>P.57</sup>
12	1		SV8.5-8	6498WW <sup>15)</sup>	65 <sup>P.57</sup>
12	1,1		BX8.4d	2473MFX6	73 <sup>P.57</sup>
12	1,2		BX8.4d	2351MFX6	73 <sup>P.57</sup>
12	1,2		W2x4.6d	2721	62 <sup>P.57</sup>
12	1,2		B8.5d	2721MF	73 <sup>P.57</sup>
12	1,2		BX8.5d	2721MFX	74 <sup>P.57</sup>
12	1,3		BX8.4d	2431MFX6	73 <sup>P.57</sup>
12	1,5		BX8.4d	2452MFX6	73 <sup>P.57</sup>
12	1,5		B8.5d	2752MF	74 <sup>P.57</sup>
12	1,5		BX8.5d	2752MFX	74 <sup>P.57</sup>
12	2		BX8.4d	2352MFX6	73 <sup>P.57</sup>
12	2		W2x4.6d	2722	62 <sup>P.57</sup>
12	2		B8.5d	2722MF	74 <sup>P.57</sup>
12	2		BX8.5d	2722MFX	74 <sup>P.57</sup>
12	2		W2.1x9.5d	2820	59 <sup>P.57</sup>
12	2		BA9s	3796	71 <sup>P.57</sup>
12	2,3		W2x4.6d	2723	62 <sup>P.57</sup>
12	2,3		BX8.4d	2723MFX6	73 <sup>P.57</sup>
12	3		W2.1x9.5d	2821	59 <sup>P.57</sup>
12	3		SV7-8	6428	66 <sup>P.57</sup>
12	3		B10d-14.5	64122MF	75 <sup>P.57</sup>
12	4		BA9s	3893	71 <sup>P.57</sup>
12	5		W2.1x9.5d	2825	59 <sup>P.57</sup>
12	5		BA9s	3860	71 <sup>P.57</sup>
12	5		BA15s	5007	53 <sup>P.57</sup>
12	5		BA15s	5007ULT	53 <sup>P.57</sup>
12	5		SV8.5-8	6413	68 <sup>P.57</sup>
12	5		SV8.5-8	6418	65 <sup>P.57</sup>
12	5		SV8.5-8	6418ULT	65 <sup>P.57</sup>
12	5		W2.1x9.5d	2825	59 <sup>P.57</sup>
12	5		W2.1x9.5d	2825HCBI	59 <sup>P.57</sup>
12	5		W2.1x9.5d	2825ULT	59 <sup>P.57</sup>
12	5		W2.1x9.5d	2827 <sup>3)</sup>	61 <sup>P.57</sup>
12	5		W2.1x9.5d	2827DC	61 <sup>P.57</sup>
12	5		BA9s	64111 <sup>4)</sup>	69 <sup>P.57</sup>
12	5		B10d-14.5	64124MF	75 <sup>P.57</sup>
12	6		W2.1x9.5d	2886X	59 <sup>P.57</sup>
12	6		BAX9s	64132	70 <sup>P.57</sup>

V	W		Product reference	 No.	
12	6		BAX9s	64132ULT	70 <sup>P.57</sup>
12	10		BA15s	5008	53 <sup>P.57</sup>
12	10		BA15s	5008ULT	53 <sup>P.57</sup>
12	10		BAU15s	5009	54 <sup>P.57</sup>
12	10		SV8.5-8	6411	68 <sup>P.57</sup>
12	10		SV8.5-8	6438	67 <sup>P.57</sup>
12	10		SV8.5-8	6461	65 <sup>P.57</sup>
12	10		BA9s	64113 <sup>4)</sup>	69 <sup>P.57</sup>
12	15			LEDDL101	-
12	15			LEDDL301	-
12	15/55		PGJ23t-1	64176 <sup>5)</sup>	24 <sup>P.56</sup>
12	16		W2.1x9.5d	921	63 <sup>P.57</sup>
12	19		PGJ19-3	64219L+	25 <sup>P.56</sup>
12	20		BA9s	64115	69 <sup>P.57</sup>
12	21		WX3x16d	7504 <sup>3)</sup>	58 <sup>P.57</sup>
12	21		W3x16d	7505	57 <sup>P.57</sup>
12	21		BA15s	7506	45 <sup>P.57</sup>
12	21		BA15s	7506ULT	45 <sup>P.57</sup>
12	21		BAU15s	7507 <sup>3)</sup>	48 <sup>P.57</sup>
12	21		BAU15s	7507DC	48 <sup>P.57</sup>
12	21		BAU15s	7507LDA <sup>3)</sup>	48 <sup>P.57</sup>
12	21		BAU15s	7507ULT <sup>3)</sup>	48 <sup>P.57</sup>
12	21		BAW15s	7508LDR <sup>6)</sup>	48 <sup>P.57</sup>
12	21		BAY9s	64136	64 <sup>P.57</sup>
12	21/4		BAZ15d	7225	47 <sup>P.57</sup>
12	21/5		W3x16q	7515	56 <sup>P.57</sup>
12	21/5		BAY15d	7528	47 <sup>P.57</sup>
12	21/5		BAY15d	7528ULT	47 <sup>P.57</sup>
12	21/5		BAW15d	7538LDR <sup>6)</sup>	50 <sup>P.57</sup>
12	27		PG13	880	43 <sup>P.57</sup>
12	27		PGJ13	881	44 <sup>P.57</sup>
12	27		W2.5x16d	3156	51 <sup>P.57</sup>
12	27/7		W2.5x16q	3157	52 <sup>P.57</sup>
12	35		PGJ19-1	64212 <sup>5) 13)</sup>	30 <sup>P.56</sup>
12	35		PGJY19-1	64242 <sup>5) 13)</sup>	26 <sup>P.56</sup>
12	35			XENAELECTRON XT5-D1/12V	77 <sup>P.57</sup>
12	35			XENAELECTRON XT5-2-D1/12V BH	78 <sup>P.57</sup>
12	35			XENAELECTRON XT5-2-D3/12V BH	78 <sup>P.57</sup>
12	35			XENAELECTRON 35XT6-S-D3/12V	78 <sup>P.57</sup>
12	35			XENAELECTRON 25XT6-A/12V	78 <sup>P.57</sup>
12	35/35		PX43t	64185	17 <sup>P.56</sup>
12	35/55		PX43t	64185SVS	17 <sup>P.56</sup>
12	42		PY20d	9145RD <sup>5)</sup>	38 <sup>P.56</sup>
12	45/40		P45t	64183 <sup>7)</sup>	18 <sup>P.56</sup>
12	51		P22d	9006 <sup>8)</sup>	38 <sup>P.56</sup>
12	51		P22d	9006CBI <sup>8)</sup>	39 <sup>P.56</sup>
12	51		P22d	9006NBP <sup>5)</sup>	36 <sup>P.56</sup>
12	51		P22d	9006XS <sup>5)</sup>	23 <sup>P.56</sup>
12	55		P14.5s	62150CBH <sup>14)</sup>	7 <sup>P.56</sup>
12	55		PX26d	62210CBH <sup>14)</sup>	20 <sup>P.56</sup>
12	55		P14.5s	64150 <sup>5)</sup>	6 <sup>P.56</sup>
12	55		P14.5s	64150CBI <sup>3)</sup>	7 <sup>P.56</sup>
12	55		P14.5s	64150NBP	5 <sup>P.56</sup>
12	55		P14.5s	64150SV2 <sup>5)</sup>	6 <sup>P.56</sup>



V	W		Product reference	 No.
12	55	P14.5s	64150ULT <sup>5)</sup>	6 <sup>P.56</sup>
12	55	PK22s	64151 <sup>5)</sup>	10 <sup>P.56</sup>
12	55	PK22s	64151CBI <sup>5)</sup>	11 <sup>P.56</sup>
12	55	PK22s	64151NBP	9 <sup>P.56</sup>
12	55	X511	64173	8 <sup>P.56</sup>
12	55	PX26d	64210 <sup>5)</sup>	22 <sup>P.56</sup>
12	55	PX26d	64210CBI <sup>8)</sup>	20 <sup>P.56</sup>
12	55	PX26d	64210NBP	19 <sup>P.56</sup>
12	55	PX26d	64210NRP	19 <sup>P.56</sup>
12	55	PX26d	64210SV2 <sup>8)</sup>	21 <sup>P.56</sup>
12	55	PX26d	64210ULT <sup>8)</sup>	21 <sup>P.56</sup>
12	55	PX26d	64210XR	20 <sup>P.56</sup>
12	55	PGJ19-2	64211 <sup>5)</sup>	27 <sup>P.56</sup>
12	55	PGJ19-2	64211SV2	27 <sup>P.56</sup>
12	55	PGJ19-2	64211CBI	28 <sup>P.56</sup>
12	55	PGJ19-2	64211NBP	29 <sup>P.56</sup>
12	55	PGJY19-2	64241 <sup>5)</sup>	26 <sup>P.56</sup>
12	60	P20d	9005 <sup>5)</sup>	33 <sup>P.56</sup>
12	60	P20d	9005CBI <sup>5)</sup>	34 <sup>P.56</sup>
12	60	P20d	9005NBP <sup>5)</sup>	35 <sup>P.56</sup>
12	60	P20d	9005XS <sup>5)</sup>	37 <sup>P.56</sup>
12	60/55	P43t	62193CBH <sup>14)</sup>	15 <sup>P.56</sup>
12	60/55	P43t	64193	17 <sup>P.56</sup>
12	60/55	P43t	64193CBI <sup>9)</sup>	12 <sup>P.56</sup>
12	60/55	P43t	64193NBP	14 <sup>P.56</sup>
12	60/55	P43t	64193NRP	14 <sup>P.56</sup>
12	60/55	P43t	64193SV2 <sup>9)</sup>	16 <sup>P.56</sup>
12	60/55	P43t	64193ULT <sup>9)</sup>	13 <sup>P.56</sup>
12	60/55	P43t	64193XR	15 <sup>P.56</sup>
12	60/55	P45t	64198 <sup>14)</sup>	18 <sup>P.56</sup>
12	60/55	P43t	9003L <sup>5)</sup>	17 <sup>P.56</sup>
12	60/55	P26.4t	9008 <sup>5)</sup>	41 <sup>P.57</sup>
12	60/55	P43t	94193	17 <sup>P.56</sup>
12	65	PGJ19-5	64213 <sup>5)</sup>	31 <sup>P.56</sup>
12	65	PX26d	64217 <sup>14)</sup>	22 <sup>P.56</sup>
12	65	PX26d	64218 <sup>14)</sup>	22 <sup>P.56</sup>
12	65	PGJY19-5	64243 <sup>5) 13)</sup>	32 <sup>P.56</sup>
12	65/45	P29t	9004XV	42 <sup>P.57</sup>
12	65/55	PX29t	9007	40 <sup>P.57</sup>
12	65/70	P43t	64205	17 <sup>P.56</sup>
12	70	PK22s	62151CBH <sup>14)</sup>	11 <sup>P.56</sup>
12	80/85	P43t	64206 <sup>14)</sup>	17 <sup>P.56</sup>
12	100	P14.5s	62200 <sup>14)</sup>	6 <sup>P.56</sup>
12	100	PK22s	62201 <sup>14)</sup>	10 <sup>P.56</sup>
12	100	PX14.5s	64152 <sup>11) 14)</sup>	6 <sup>P.56</sup>
12	100	PKY22s	64153 <sup>12) 14)</sup>	10 <sup>P.56</sup>
12	100/80	P43t	62203 <sup>14)</sup>	17 <sup>P.56</sup>
12	100/80	PU43t	64194 <sup>12) 14)</sup>	17 <sup>P.56</sup>



V	W		Product reference	 No.
12	100/80	P45t	64203 <sup>14)</sup>	18 <sup>P.56</sup>
24	1,2	W2x4.6d	2741	62 <sup>P.57</sup>
24	1,2	B8.5d	2741MF	74 <sup>P.57</sup>
24	1,2	BX8.5d	2741MFX	74 <sup>P.57</sup>
24	2	W2.1x9.5d	2840	59 <sup>P.57</sup>
24	3	W2.1x9.5d	2841	59 <sup>P.57</sup>
24	3	SV8.5-8	6421	68 <sup>P.57</sup>
24	3	SV7-8	6430	66 <sup>P.57</sup>
24	4	BA9s	3930	72 <sup>P.57</sup>
24	4	BA9s	3930TSP	72 <sup>P.57</sup>
24	5	W2.1x9.5d	2845	59 <sup>P.57</sup>
24	5	W2.1x9.5d	2845TSP	59 <sup>P.57</sup>
24	5	BA15s	5627	55 <sup>P.57</sup>
24	5	BA15s	5627TSP	55 <sup>P.57</sup>
24	5	SV8.5-8	6423	65 <sup>P.57</sup>
24	5	SV8.5-8	6424	68 <sup>P.57</sup>
24	10	BA15s	5637	55 <sup>P.57</sup>
24	10	BA15s	5637TSP	55 <sup>P.57</sup>
24	10	SV8.5-8	6429	68 <sup>P.57</sup>
24	15	BA15s	7529	45 <sup>P.57</sup>
24	20/60	PGJ23t-1	64177	24 <sup>P.56</sup>
24	21	BAU15s	7510TSP	49 <sup>P.57</sup>
24	21	BA15s	7511	46 <sup>P.57</sup>
24	21	BA15s	7511TSP	46 <sup>P.57</sup>
24	21	BAY9s	64138	64 <sup>P.57</sup>
24	21/5	BAY15d	7537	47 <sup>P.57</sup>
24	21/5	BAY15d	7537TSP	47 <sup>P.57</sup>
24	35		XENAELECTRON XT5-1-D1/24V	77 <sup>P.57</sup>
24	35		XENAELECTRON XT5-3-D1/24V TAB	76 <sup>P.57</sup>
24	70	P14.5s	64155	6 <sup>P.56</sup>
24	70	P14.5s	64155TSP	6 <sup>P.56</sup>
24	70	PK22s	64156	10 <sup>P.56</sup>
24	70	PK22s	64156TSP	10 <sup>P.56</sup>
24	70	X511	64175	8 <sup>P.56</sup>
24	70	PX26d	64215	22 <sup>P.56</sup>
24	70	PX26d	64215TSP	22 <sup>P.56</sup>
24	70	PGJ19-2	64216TSP	27 <sup>P.56</sup>
24	75/70	P43t	64196	17 <sup>P.56</sup>
24	75/70	P43t	64196TSP	17 <sup>P.56</sup>
24	75/70	P45t	64199 <sup>14)</sup>	18 <sup>P.56</sup>
24	75/70	P43t	94196	17 <sup>P.56</sup>
24	100/90	P43t	62248	17 <sup>P.56</sup>
			V-J1D-240-J2A	79 <sup>P.57</sup>
			V-J1D-165-J2A	79 <sup>P.57</sup>
			M-J1A-260-J2B	79 <sup>P.57</sup>

1) Reduced UV emission | For projection headlights | ECE approval and DOT label  
 2) Reduced UV emission | With anti-glare strip for reflection headlights | ECE approval and DOT label  
 3) Amber lamps for clear indicators  
 4) Also available with glass base (article reference 6411150 or 6411350)  
 5) Lamps comply with ECE R 37 and SAE (DOT) regulations  
 6) Red lamp for clear reversing/brake lights  
 7) Successor to the BLUX® AS® lamp (article reference 7951)  
 8) Lamps comply with ECE R 37 and SAE (DOT) regulations | With silver cap  
 9) With silver cap

10) To be operated only with approved electronic control gear  
 11) 2600 lm | Generally on normal roads  
 12) Generally on normal roads  
 13) New development for simple lamp replacement and highly efficient headlights; supplied on request  
 14) These products do not have ECE approval. This means that they cannot be fitted in "normal" headlights or additional headlights if the vehicle is to be used on public highways. | OFF-ROAD only. | Not for use on public roads  
 15) Only approved for use in interiors or off-road

# Type overview by ECE/SAE category

ECE	V	W		Product reference	
C5W	12	5	SV8.5-8	6418	65 <sup>P.57</sup>
C5W	12	5	SV8.5-8	6418ULT	65 <sup>P.57</sup>
C5W	24	5	SV8.5-8	6423	65 <sup>P.57</sup>
D1R <sup>10)</sup>		35	PK32d-3	66154 <sup>2)</sup>	2 <sup>P.56</sup>
D1R <sup>10)</sup>		35	PK32d-3	66154CBI <sup>1)</sup>	2 <sup>P.56</sup>
D1S <sup>10)</sup>		35	PK32d-2	66140SVS <sup>1)</sup>	1 <sup>P.56</sup>
D1S <sup>10)</sup>		35	PK32d-2	66144 <sup>1)</sup>	1 <sup>P.56</sup>
D1S <sup>10)</sup>		35	PK32d-2	66144CBI <sup>1)</sup>	1 <sup>P.56</sup>
D1S & D1R	12	35		XENAELECTRON XT5-D1/12V	77 <sup>P.57</sup>
D1S & D1R	12	35		XENAELECTRON XT5-2-D1/12V BH	78 <sup>P.57</sup>
D1S & D1R	24	35		XENAELECTRON XT5-1-D1/24V	77 <sup>P.57</sup>
D1S & D1R	24	35		XENAELECTRON XT5-3-D1/24V TAB	76 <sup>P.57</sup>
D2R <sup>10)</sup>		35	P32d-3	66250 <sup>2)</sup>	4 <sup>P.56</sup>
D2R <sup>10)</sup>		35	P32d-3	66250CBI <sup>2)</sup>	4 <sup>P.56</sup>
D2S <sup>10)</sup>		35	P32d-2	66240 <sup>1)</sup>	3 <sup>P.56</sup>
D2S <sup>10)</sup>		35	P32d-2	66240CBI <sup>1)</sup>	3 <sup>P.56</sup>
D2S <sup>10)</sup>		35	P32d-2	66240SVS <sup>1)</sup>	3 <sup>P.56</sup>
D3R <sup>10)</sup>		35	PK32d-6	66350 <sup>2)</sup>	2 <sup>P.56</sup>
D3S <sup>10)</sup>		35	PK32d-5	66340 <sup>1)</sup>	1 <sup>P.56</sup>
D3S & D3R	12	35		XENAELECTRON XT5-2-D3/12V BH	78 <sup>P.57</sup>
D3S & D3R	12	35		XENAELECTRON 35XT6-S-D3/12V	78 <sup>P.57</sup>
D4R <sup>10)</sup>		35	P32d-6	66450 <sup>2)</sup>	4 <sup>P.56</sup>
D4S <sup>10)</sup>		35	P32d-5	66440 <sup>1)</sup>	3 <sup>P.56</sup>
D8S <sup>10)</sup>		25	PK32d-1	66548 <sup>1)</sup>	1 <sup>P.56</sup>
D8S	12	25		XENAELECTRON 25XT6-A/12V	78 <sup>P.57</sup>
H1	12	55	P14.5s	64150 <sup>5)</sup>	6 <sup>P.56</sup>
H1	12	55	P14.5s	64150CBI <sup>5)</sup>	7 <sup>P.56</sup>
H1	12	55	P14.5s	64150NBP	5 <sup>P.56</sup>
H1	12	55	P14.5s	64150SV2 <sup>5)</sup>	4 <sup>P.56</sup>
H1	12	55	P14.5s	64150ULT <sup>5)</sup>	6 <sup>P.56</sup>
H1	24	70	P14.5s	64155	6 <sup>P.56</sup>
H1	24	70	P14.5s	64155TSP	6 <sup>P.56</sup>
H2	12	55	X511	64173	8 <sup>P.56</sup>
H2	24	70	X511	64175	8 <sup>P.56</sup>
H3	12	55	PK22s	64151 <sup>5)</sup>	10 <sup>P.56</sup>
H3	12	55	PK22s	64151CBI <sup>5)</sup>	11 <sup>P.56</sup>
H3	12	55	PK22s	64151NBP	9 <sup>P.56</sup>
H3	24	70	PK22s	64156	10 <sup>P.56</sup>
H3	24	70	PK22s	64156TSP	10 <sup>P.56</sup>
H4	12	60/55	P43t	64193	17 <sup>P.56</sup>
H4	12	60/55	P43t	64193CBI <sup>9)</sup>	12 <sup>P.56</sup>
H4	12	60/55	P43t	64193NBP	14 <sup>P.56</sup>
H4	12	60/55	P43t	64193NRP	14 <sup>P.56</sup>
H4	12	60/55	P43t	64193SV2 <sup>9)</sup>	16 <sup>P.56</sup>
H4	12	60/55	P43t	64193ULT <sup>9)</sup>	13 <sup>P.56</sup>
H4	12	60/55	P43t	64193XR	15 <sup>P.56</sup>
H4	12	60/55	P43t	94193	17 <sup>P.56</sup>
H4	24	75/70	P43t	64196	17 <sup>P.56</sup>
H4	24	75/70	P43t	64196TSP	17 <sup>P.56</sup>
H4	24	75/70	P43t	94196	17 <sup>P.56</sup>
H6W	12	6	BAX9s	64132	70 <sup>P.57</sup>
H6W	12	6	BAX9s	64132ULT	70 <sup>P.57</sup>
H7	12	55	PX26d	64210 <sup>5)</sup>	22 <sup>P.56</sup>

ECE	V	W		Product reference	
H7	12	55	PX26d	64210CBI <sup>8)</sup>	20 <sup>P.56</sup>
H7	12	55	PX26d	64210NBP	19 <sup>P.56</sup>
H7	12	55	PX26d	64210NRP	19 <sup>P.56</sup>
H7	12	55	PX26d	64210SV2 <sup>8)</sup>	21 <sup>P.56</sup>
H7	12	55	PX26d	64210ULT <sup>8)</sup>	21 <sup>P.56</sup>
H7	12	55	PX26d	64210XR	20 <sup>P.56</sup>
H7	24	70	PX26d	64215	22 <sup>P.56</sup>
H7	24	70	PX26d	64215TSP	22 <sup>P.56</sup>
H8	12	35	PGJ19-1	64212 <sup>5)</sup>	30 <sup>P.56</sup>
H8B <sup>13)</sup>	12	35	PGJ19-1	64242 <sup>5)</sup>	26 <sup>P.56</sup>
H9	12	65	PGJ19-5	64213 <sup>5)</sup>	31 <sup>P.56</sup>
H9B <sup>13)</sup>	12	65	PGJ19-5	64243 <sup>5)</sup>	32 <sup>P.56</sup>
H10	12	42	PY20d	9145RD <sup>5)</sup>	38 <sup>P.56</sup>
H11	12	55	PGJ19-2	64211 <sup>5)</sup>	27 <sup>P.56</sup>
H11	12	55	PGJ19-2	64211CBI	28 <sup>P.56</sup>
H11	12	55	PGJ19-2	64211SV2	27 <sup>P.56</sup>
H11	12	55	PGJ19-2	64211NBP	29 <sup>P.56</sup>
H11	24	70	PGJ19-2	64216TSP	27 <sup>P.56</sup>
H11B <sup>13)</sup>	12	55	PGJ19-2	64241 <sup>5)</sup>	26 <sup>P.56</sup>
H13	12	60/55	P26.4t	9008 <sup>5)</sup>	41 <sup>P.57</sup>
H15	12	15/55	PGJ23t-1	64176 <sup>5)</sup>	24 <sup>P.56</sup>
H15	24	20/60	PGJ23t-1	64177	24 <sup>P.56</sup>
H16	12	19	PGJ19-3	64219L+	25 <sup>P.56</sup>
H21W	12	21	BAY9s	64136	64 <sup>P.57</sup>
H21W	24	21	BAY9s	64138	64 <sup>P.57</sup>
H27/1	12	27	PG13	880	43 <sup>P.57</sup>
H27/2	12	27	PGJ13	881	44 <sup>P.57</sup>
HB2	12	60/55	P43t	9003L <sup>5)</sup>	17 <sup>P.56</sup>
HB3	12	60	P20d	9005 <sup>5)</sup>	33 <sup>P.56</sup>
HB3	12	60	P20d	9005CBI <sup>5)</sup>	34 <sup>P.56</sup>
HB3	12	60	P20d	9005NBP <sup>5)</sup>	35 <sup>P.56</sup>
HB3A	12	60	P20d	9005XS <sup>5)</sup>	37 <sup>P.56</sup>
HB4	12	51	P22d	9006 <sup>5)</sup>	38 <sup>P.56</sup>
HB4	12	51	P22d	9006CBI <sup>8)</sup>	39 <sup>P.56</sup>
HB4	12	51	P22d	9006NBP <sup>8)</sup>	36 <sup>P.56</sup>
HB4A	12	51	P22d	9006XS <sup>5)</sup>	23 <sup>P.56</sup>
HS1	12	35/35	PX43t	64185	17 <sup>P.55</sup>
HS1	12	35/55	PX43t	64185SVS	17 <sup>P.56</sup>
P21/4W	12	21/4	BAZ15d	7225	47 <sup>P.57</sup>
P21/5W	12	21/5	BAY15d	7528	47 <sup>P.57</sup>
P21/5W	12	21/5	BAY15d	7528ULT	47 <sup>P.57</sup>
P21/5W	24	21/5	BAY15d	7537	47 <sup>P.57</sup>
P21/5W	24	21/5	BAY15d	7537TSP	47 <sup>P.57</sup>
P21W	12	21	BA15s	7506	45 <sup>P.57</sup>
P21W	12	21	BA15s	7506ULT	45 <sup>P.57</sup>
P21W	24	21	BA15s	7511	46 <sup>P.57</sup>
P21W	24	21	BA15s	7511TSP	46 <sup>P.57</sup>
P27W	12	27	W2.5x16d	3156	51 <sup>P.57</sup>
P27/7W	12	27/7	W2.5x16q	3157	52 <sup>P.57</sup>
PR21W	12	21	BAW15s	7508LDR <sup>6)</sup>	48 <sup>P.57</sup>
PR21/5W	12	21/5	BAW15d	7538LDR <sup>6)</sup>	50 <sup>P.57</sup>
PY21W	12	21	BAU15s	7507 <sup>3)</sup>	48 <sup>P.57</sup>
PY21W	12	21	BAU15s	7507DC <sup>3)</sup>	48 <sup>P.57</sup>
PY21W	12	21	BAU15s	7507LDA <sup>3)</sup>	48 <sup>P.57</sup>
PY21W	12	21	BAU15s	7507ULT <sup>3)</sup>	48 <sup>P.57</sup>
PY21W	24	21	BAU15s	7510TSP	49 <sup>P.57</sup>
R2	12	45/40	P45t	64183 <sup>7)</sup>	18 <sup>P.56</sup>
R5W	12	5	BA15s	5007	53 <sup>P.57</sup>



ECE	V	W		Product reference	 No.
R5W	12	5	BA15s	5007ULT	53 <sup>P.57</sup>
R5W	24	5	BA15s	5627	55 <sup>P.57</sup>
R5W	24	5	BA15s	5627TSP	55 <sup>P.57</sup>
R10W	12	10	BA15s	5008	53 <sup>P.57</sup>
R10W	12	10	BA15s	5008ULT	53 <sup>P.57</sup>
R10W	24	10	BA15s	5637	55 <sup>P.57</sup>
R10W	24	10	BA15s	5637TSP	55 <sup>P.57</sup>
RY10W	12	10	BAU15s	5009	54 <sup>P.57</sup>
T4W	12	4	BA9s	3893	71 <sup>P.57</sup>
T4W	24	4	BA9s	3930	72 <sup>P.57</sup>
T4W	24	4	BA9s	3930TSP	72 <sup>P.57</sup>
W2,3W	12	2,3	W2x4.6d	2723	62 <sup>P.57</sup>
W16W	12	16	W2.1x9.5d	921	63 <sup>P.57</sup>
W21W	12	21	W3x16d	7505	57 <sup>P.57</sup>
W21/5W	12	21/5	W3x16q	7515	56 <sup>P.57</sup>
W3W	12	3	W2.1x9.5d	2821	59 <sup>P.57</sup>
W3W	24	3	W2.1x9.5d	2841	59 <sup>P.57</sup>
W5W	12	5	W2.1x9.5d	2825	59 <sup>P.57</sup>
W5W	12	5	W2.1x9.5d	2825HCBI	59 <sup>P.57</sup>
W5W	12	5	W2.1x9.5d	2825ULT	59 <sup>P.57</sup>
W5W	24	5	W2.1x9.5d	2845	59 <sup>P.57</sup>
W5W	24	5	W2.1x9.5d	2845TSP	59 <sup>P.57</sup>
WY5W	12	5	W2.1x9.5d	2827 <sup>3)</sup>	61 <sup>P.57</sup>
WY5W	12	5	W2.1x9.5d	2827DC	61 <sup>P.57</sup>
WY21W	12	21	WX3x16d	7504 <sup>3)</sup>	58 <sup>P.57</sup>
	12	1	W2.1x9.5d	2850CW <sup>16)</sup>	59 <sup>P.57</sup>
	12	1	W2.1x9.5d	2850WW <sup>16)</sup>	59 <sup>P.57</sup>
	12	1	BA9s	3850CW <sup>16)</sup>	72 <sup>P.57</sup>
	12	1	BA9s	3850WW <sup>16)</sup>	72 <sup>P.57</sup>
	12	1	SV8.5-8	6498CW <sup>16)</sup>	65 <sup>P.57</sup>
	12	1	SV8.5-8	6498WW <sup>16)</sup>	65 <sup>P.57</sup>
	12	1,1	BX8.4d	2473MFX6	73 <sup>P.57</sup>
	12	1,2	W2x4.6d	2721	62 <sup>P.57</sup>
	12	1,2	B8.5d	2721MF	73 <sup>P.57</sup>
	12	1,2	BX8.4d	2351MFX6	73 <sup>P.57</sup>
	12	1,2	BX8.5d	2721MFX	74 <sup>P.57</sup>
	12	1,3	BX8.4d	2431MFX6	73 <sup>P.57</sup>
	12	1,5	BX8.4d	2452MFX6	73 <sup>P.57</sup>
	12	1,5	B8.5d	2752MF	74 <sup>P.57</sup>
	12	1,5	BX8.5d	2752MFX	74 <sup>P.57</sup>
	12	2	W2x4.6d	2722	62 <sup>P.57</sup>
	12	2	B8.5d	2722MF	74 <sup>P.57</sup>
	12	2	BX8.5d	2722MFX	74 <sup>P.57</sup>
	12	2	BX8.4d	2352MFX6	73 <sup>P.57</sup>
	12	2	W2.1x9.5d	2820	59 <sup>P.57</sup>
	12	2	BA9s	3796	71 <sup>P.57</sup>
	12	2,3	BX8.4d	2723MFX6	73 <sup>P.57</sup>
	12	3	SV7-8	6428	66 <sup>P.57</sup>
	12	3	B10d-14.5	64122MF	75 <sup>P.57</sup>

ECE	V	W		Product reference	 No.
	12	5	BA9s	3860	71 <sup>P.57</sup>
	12	5	BA9s	64111 <sup>4)</sup>	69 <sup>P.57</sup>
	12	5	SV8.5-8	6413	68 <sup>P.57</sup>
	12	5	B10d-14.5	64124MF	75 <sup>P.57</sup>
	12	6	W2.1x9.5d	2886X	59 <sup>P.57</sup>
	12	10	SV8.5-8	6411	68 <sup>P.57</sup>
	12	10	SV8.5-8	6438	67 <sup>P.57</sup>
	12	10	SV8.5-8	6461	65 <sup>P.57</sup>
	12	10	BA9s	64113 <sup>4)</sup>	69 <sup>P.57</sup>
	12	15		LEDDRL101	-
	12	15		LEDDRL301	-
	12	20	BA9s	64115	69 <sup>P.57</sup>
	12	21	BAW15s	7508LDR	48 <sup>P.57</sup>
	12	55	P14.5s	62150CBH <sup>15)</sup>	7 <sup>P.56</sup>
	12	55	PX26d	62210CBH <sup>15)</sup>	20 <sup>P.56</sup>
	12	60/55	P43t	62193CBH <sup>15)</sup>	15 <sup>P.56</sup>
	12	60/55	P45t	64198 <sup>15)</sup>	18 <sup>P.56</sup>
	12	65	PX26d	64217 <sup>15)</sup>	22 <sup>P.56</sup>
	12	65	PX26d	64218 <sup>15)</sup>	22 <sup>P.56</sup>
	12	65/45	P29t	9004XV	42 <sup>P.57</sup>
	12	65/55	PX29t	9007	40 <sup>P.57</sup>
	12	65/70	P43t	64205	17 <sup>P.56</sup>
	12	70	PK22s	62151CBH <sup>15)</sup>	11 <sup>P.56</sup>
	12	80/85	P43t	64206 <sup>15)</sup>	17 <sup>P.56</sup>
	12	100	P14.5s	62200 <sup>15)</sup>	6 <sup>P.56</sup>
	12	100	PK22s	62201 <sup>15)</sup>	10 <sup>P.56</sup>
	12	100	PX14.5s	64152 <sup>11) 15)</sup>	6 <sup>P.56</sup>
	12	100	PKY22s	64153 <sup>12) 15)</sup>	10 <sup>P.56</sup>
	12	100/80	P43t	62203 <sup>15)</sup>	17 <sup>P.56</sup>
	12	100/80	PU43t	64194 <sup>12) 15)</sup>	17 <sup>P.56</sup>
	12	100/80	P45t	64203 <sup>15)</sup>	18 <sup>P.56</sup>
	24	100/90	P43t	62248 <sup>14)</sup>	17 <sup>P.56</sup>
	24	1,2	W2x4.6d	2741	62 <sup>P.57</sup>
	24	1,2	B8.5d	2741MF	74 <sup>P.57</sup>
	24	1,2	BX8.5d	2741MFX	74 <sup>P.57</sup>
	24	2	W2.1x9.5d	2840	59 <sup>P.57</sup>
	24	3	SV8.5-8	6421	68 <sup>P.57</sup>
	24	3	SV7-8	6430	66 <sup>P.57</sup>
	24	5	SV8.5-8	6424	68 <sup>P.57</sup>
	24	10	SV8.5-8	6429	68 <sup>P.57</sup>
	24	15	BA15s	7529	45 <sup>P.57</sup>
	24	75/70	P45t	64199 <sup>15)</sup>	18 <sup>P.56</sup>
				V-J1D-240-J2A	79 <sup>P.57</sup>
				V-J1D-165-J2A	79 <sup>P.57</sup>
				M-J1A-260-J2B	79 <sup>P.57</sup>



- 1) Reduced UV emission | For projection headlights | ECE approval and DOT label
- 2) Reduced UV emission | With anti-glare strip for reflection headlights | ECE approval and DOT label
- 3) Amber lamps for clear indicators
- 4) Also available with glass base (article reference 6411150 or 6411350)
- 5) Lamps comply with ECE R 37 and SAE (DOT) regulations
- 6) Red lamp for clear reversing/brake lights
- 7) Successor to the BILUX® AS® lamp (article reference 7951)
- 8) Lamps comply with ECE R 37 and SAE (DOT) regulations | With silver cap
- 9) With silver cap

- 10) To be operated only with approved electronic control gear
- 11) 2600 lm | Generally on normal roads
- 12) Generally on normal roads
- 13) New development for simple lamp replacement and highly efficient headlights; supplied on request
- 14) SAE category reference. H4 with strict geometrical tolerances
- 15) These products do not have ECE approval. This means that they cannot be fitted in "normal" headlights or additional headlights if the vehicle is to be used on public highways. | OFF-ROAD only. | Not for use on public roads
- 16) Only approved for use in interiors or off-road



# Type overview in numerical order of product reference with test data



Product reference	ECE	V	W		Test voltage V	Power consumption W	lm	Lifespan B <sub>3</sub> /T <sub>c</sub> <sup>20)</sup>	 No.
880	H27/1	12	27	PG13	13,5	max. 31	450±15%	900 <sup>15)</sup>	43 <sup>P.57</sup>
881	H27/2	12	27	PGJ13	13,5	max. 31	450±15%	900 <sup>15)</sup>	44 <sup>P.57</sup>
921	W16W	12	16	W2.1x9.5d	13,5	19,4±10%	310±20%	1000 <sup>15)</sup>	63 <sup>P.57</sup>
2351MFX6		12	1,2	BX8.4d	13,5	1,32±10%	7,5±20%	600/3000	73 <sup>P.57</sup>
2352MFX6		12	2	BX8.4d	13,5	2,13±10%	11,8±20%	1500/6000	73 <sup>P.57</sup>
2431MFX6		12	1,3	BX8.4d	13,5	1,28±15%	6,5±20%	1300/6000	73 <sup>P.57</sup>
2452MFX6		12	1,5	BX8.4d	13,5	1,8±10%	6,5±20%	1700/6500	73 <sup>P.57</sup>
2473MFX6		12	1,1	BX8.4d	14,0	1,12±10%	3,6±25%	500/5000	73 <sup>P.57</sup>
2721		12	1,2	W2x4.6d	13,5	1,22±15%	7,5±20%	500/2000	62 <sup>P.57</sup>
2721MF		12	1,2	B8.5d	13,5	1,2±10%	6,4±25%	500/2000	73 <sup>P.57</sup>
2721MFX		12	1,2	BX8.5d	13,5	1,2±10%	6,4±25%	500/2000	74 <sup>P.57</sup>
2722		12	2	W2x4.6d	13,5	2±15%	12±20%	1300/4000	62 <sup>P.57</sup>
2722MF		12	2	B8.5d	13,5	2±10%	10,2±25%	1300/4000	74 <sup>P.57</sup>
2722MFX		12	2	BX8.5d	13,5	2±10%	10,2±25%	1300/4000	74 <sup>P.57</sup>
2723	W2,3W	12	2,3	W2x4.6d	13,5	2,3±8%	18,6±20%	350/1200	62 <sup>P.57</sup>
2723MFX6		12	2,3	BX8.4d	13,5	2,3±15%	17,3±20%	350/1200	73 <sup>P.57</sup>
2741		24	1,2	W2x4.6d	28,0	1,6±8%	7,5±20%	400/2000	62 <sup>P.57</sup>
2741MF		24	1,2	B8.5d	28,0	1,6±10%	6,4±25%	400/2000	74 <sup>P.57</sup>
2741MFX		24	1,2	BX8.5d	28,0	1,6±10%	6,4±25%	400/2000	74 <sup>P.57</sup>
2752MF		12	1,5	B8.5d	13,5	1,8±10%	6,0±20%	1000/6500	74 <sup>P.57</sup>
2752MFX		12	1,5	BX8.5d	13,5	1,8±10%	6,0±20%	1000/6500	74 <sup>P.57</sup>
2820		12	2	W2.1x9.5d	13,5	2,2±10%	13,5±25%	600/4000	59 <sup>P.57</sup>
2821	W3W	12	3	W2.1x9.5d	13,5	3±10%	22±30%	1300/4000	59 <sup>P.57</sup>
2825	W5W	12	5	W2.1x9.5d	13,5	5±10%	50±20%	350/1000	59 <sup>P.57</sup>
2825HCBI	W5W	12	5	W2.1x9.5d	13,5	5±20%	50±20%	350/1000	59 <sup>P.57</sup>
2825ULT	W5W	12	5	W2.1x9.5d	13,5	5±10%	50±20%	700/1500	59 <sup>P.57</sup>
2827 <sup>3)</sup>	WY5W	12	5	W2.1x9.5d	13,5	5±10%	30±20%	350/1000	61 <sup>P.57</sup>
2827DC	WY5W	12	5	W2.1x9.5d	13,5	5±10%	30±20%	200/500	61 <sup>P.57</sup>
2840		24	2	W2.1x9.5d	28,0	2,6±15%	13±30%	500/5000	59 <sup>P.57</sup>
2841	W3W	24	3	W2.1x9.5d	28,0	4±15%	22±30%	500/5000	59 <sup>P.57</sup>
2845	W5W	24	5	W2.1x9.5d	28,0	7±10%	50±20%	800/3000	59 <sup>P.57</sup>
2845TSP	W5W	24	5	W2.1x9.5d	28,0	7±10%	50±20%	1000/4000	59 <sup>P.57</sup>
2850CW <sup>19)</sup>		12	1	W2.1x9.5d	13,2	max.1	50±10%	500/1000	59 <sup>P.57</sup>
2850WW <sup>19)</sup>		12	1	W2.1x9.5d	13,2	max.1	50±10%	500/1000	59 <sup>P.57</sup>
2886X		12	6	W2.1x9.5d	13,5	6±10%	85±20%	400/1000	59 <sup>P.57</sup>
3156	P27W	12	27	W2.5x16d	13,5	29,2±10%	475±15%	600 <sup>15)</sup>	51 <sup>P.57</sup>
3157	P27/7W	12	27/7	W2.5x16q	13,5	29,2/ 7,7±10%	475/ 36±15%	600/5000 <sup>15)</sup>	52 <sup>P.57</sup>
3796		12	2	BA9s	13,5	2,0±8%	12,5±25%	300/750	71 <sup>P.57</sup>
3850CW <sup>19)</sup>		12	1	BA9s	13,2	max.1	50±10%	500/1000	72 <sup>P.57</sup>
3850WW <sup>19)</sup>		12	1	BA9s	13,2	max.1	50±10%	500/1000	72 <sup>P.57</sup>
3860		12	5	BA9s	13,5	5±15%	50±20%	400/1000	71 <sup>P.57</sup>
3893	T4W	12	4	BA9s	13,5	4±10%	35±20%	600/1200	71 <sup>P.57</sup>
3930	T4W	24	4	BA9s	28,0	5±10%	35±20%	550/1000	72 <sup>P.57</sup>
3930TSP	T4W	24	4	BA9s	28,0	5±10%	35±20%	550/1000	72 <sup>P.57</sup>
5007	R5W	12	5	BA15s	13,5	5±10%	50±20%	350/800	53 <sup>P.57</sup>
5007ULT	R5W	12	5	BA15s	13,5	5±10%	50±20%	600/1200	53 <sup>P.57</sup>
5008	R10W	12	10	BA15s	13,5	10±10%	125±20%	350/800	53 <sup>P.57</sup>
5008ULT	R10W	12	10	BA15s	13,5	10±10%	125±20%	600/1200	53 <sup>P.57</sup>
5009	RY10W	12	10	BAU15s	13,5	10±10%	75±20%	350/800	54 <sup>P.57</sup>
5627	R5W	24	5	BA15s	28,0	7±10%	50±20%	500/1000	55 <sup>P.57</sup>
5627TSP	R5W	24	5	BA15s	28,0	7±10%	50±20%	800/2000	55 <sup>P.57</sup>
5637	R10W	24	10	BA15s	28,0	12,5±10%	125±20%	400/800	55 <sup>P.57</sup>
5637TSP	R10W	24	10	BA15s	28,0	12,5±10%	125±20%	1000/2000	55 <sup>P.57</sup>
6411		12	10	SV8.5-8	13,5	10±10%	min. 100	500/1000	68 <sup>P.57</sup>
6413		12	5	SV8.5-8	13,5	5±10%	45±20%	1000/2000	68 <sup>P.57</sup>
6418	C5W	12	5	SV8.5-8	13,5	5±10%	45±20%	1000/2000	65 <sup>P.57</sup>
6418ULT	C5W	12	5	SV8.5-8	13,5	5±10%	45±20%	1500/4000	65 <sup>P.57</sup>



Product reference	ECE	V	W		Test voltage V	Power consumption W	lm	Lifespan B <sub>3</sub> /T <sub>c</sub> <sup>20)</sup>	 No.
6421		24	3	SV8.5-8	28,0	3±10%	17±20%	800/1500	68 <sup>P.57</sup>
6423	C5W	24	5	SV8.5-8	28,0	7±10%	45±20%	1500/4000	65 <sup>P.57</sup>
6424		24	5	SV8.5-8	28,0	7±10%	60±20%	1000/2000	68 <sup>P.57</sup>
6428		12	3	SV7-8	13,5	3,5±10%	29±20%	600/1200	66 <sup>P.57</sup>
6429		24	10	SV8.5-8	28,0	10±10%	105±20%	300/600	68 <sup>P.57</sup>
6430		24	3	SV7-8	28,0	3±10%	22±20%	400/800	66 <sup>P.57</sup>
6438		12	10	SV8.5-8	13,5	10±10%	120±25%	500/1000	67 <sup>P.57</sup>
6461		12	10	SV8.5-8	13,5	10±10%	105±20%	600/1200	65 <sup>P.57</sup>
6498CW <sup>19)</sup>		12	1	SV8.5-8	13,2	max. 1	30±10%	500/1000	65 <sup>P.57</sup>
6498WW <sup>19)</sup>		12	1	SV8.5-8	13,2	max. 1	30±10%	500/1000	65 <sup>P.57</sup>
7225	P21/4W	12	21/4	BAZ15d	13,5	25±6%/5±10%	440±15%/15±20%	180//290/1250//4000	47 <sup>P.57</sup>
7504 <sup>3)</sup>	WY21W	12	21	WX3x16d	13,5	25±6%	280±20%	400/600	58 <sup>P.57</sup>
7505	W21W	12	21	W3x16d	13,5	25±6%	460±15%	400/600	57 <sup>P.57</sup>
7506	P21W	12	21	BA15s	13,5	25±6%	460±15%	250/500	45 <sup>P.57</sup>
7506ULT	P21W	12	21	BA15s	13,5	25±6%	460±15%	500/1000	45 <sup>P.57</sup>
7507 <sup>3)</sup>	PY21W	12	21	BAU15s	13,5	25±6%	280±20%	250/500	48 <sup>P.57</sup>
7507DC	PY21W	12	21	BAU15s	13,5	25±6%	280±20%	100/250	48 <sup>P.57</sup>
7507LDA <sup>3)</sup>	PY21W	12	21	BAU15s	13,5	25±6%	280±20%	500/1000	48 <sup>P.57</sup>
7507ULT <sup>3)</sup>	PY21W	12	21	BAU15s	13,5	25±6%	280±20%	500/1000	48 <sup>P.57</sup>
7508LDR <sup>5)</sup>	PR21W	12	21	BAW15s	13,5	25±6%	110±20%	500/1000	48 <sup>P.57</sup>
7510TSP	PY21W	24	21	BAU15s	28,0	28±6%	280±20%	250/500	49 <sup>P.57</sup>
7511	P21W	24	21	BA15s	28,0	28±6%	460±15%	200/400	46 <sup>P.57</sup>
7511TSP	P21W	24	21	BA15s	28,0	28±6%	460±15%	250/500	46 <sup>P.57</sup>
7515	W21/5W	12	21/5	W3x16q	13,5	25±6%/6±10%	440±15%/35±20%	400//600/> 3000//> 3000	56 <sup>P.57</sup>
7528	P21/5W	12	21/5	BAY15d	13,5	25±6%/6±10%	440±15%/35±20%	180//290/1250//4000	47 <sup>P.57</sup>
7528ULT	P21/5W	12	21/5	BAY15d	13,5	25±6%/6±10%	440±15%/35±20%	300//3000/800//6000	47 <sup>P.57</sup>
7529		24	15	BA15s	28,0	15±10%	210±25%	100/300	45 <sup>P.57</sup>
7537	P21/5W	24	21/5	BAY15d	28,0	28±6%/10±10%	440±15%/40±20%	65//600160//1600	47 <sup>P.57</sup>
7537TSP	P21/5W	24	21/5	BAY15d	28,0	28±6%/11 max.	440±15%/40±20%	100//1000200//2000	47 <sup>P.57</sup>
7538LDR <sup>5)</sup>	PR21/5W	12	21/5	BAW15d	13,5	25±6%/6±10%	105±20%/8±25%	300//3000/800//6000	50 <sup>P.57</sup>
9003L <sup>5)</sup>	HB2	12	60/55	P43t	12,8	max. 72/65	1500/910±10%	120//590/240//1190	17 <sup>P.56</sup>
9004XV	HB1	12	65/45	P29t	12,8	max. 70/50	1200/700±15%	200//125/375//250	42 <sup>P.57</sup>
9005 <sup>5)</sup>	HB3	12	60	P20d	13,2	max. 73	1860±12%	280/550	33 <sup>P.56</sup>
9005CBI <sup>5)</sup>	HB3	12	60	P20d	13,2	max. 73	1860±12%	280/550	34 <sup>P.56</sup>
9005NBP <sup>5)</sup>	HB3	12	60	P20d	13,2	max. 73	1860±12%	280/550	29 <sup>P.56</sup>
9005XS <sup>5)</sup>	HB3A	12	60	P20d	13,2	max. 73	1860±12%	280/550	37 <sup>P.56</sup>
9006 <sup>5)</sup>	HB4	12	51	P22d	12,8	max. 62	1095±15%	1200/2590	38 <sup>P.56</sup>
9006CBI <sup>8)</sup>	HB4	12	51	P22d	13,2	max. 62	1095±15%	860/1720	39 <sup>P.56</sup>
9006NBP <sup>5)</sup>	HB4	12	51	P22d	13,2	max. 62	1095±15%	860/1720	36 <sup>P.56</sup>
9006XS <sup>5)</sup>	HB4A	12	51	P22d	13,2	max. 62	1095±15%	860/1720	23 <sup>P.56</sup>
9007	HB5	12	65/55	PX29t	12,8	max. 70/60	1350/1000±10%	250/500(14,0V) <sup>15)</sup>	40 <sup>P.57</sup>
9008 <sup>5)</sup>	H13	12	60/55	P26.4t	13,2	max. 75/68	1700/1100±15%	170//1290/350//2590	41 <sup>P.57</sup>
9145RD <sup>5)</sup>	H10	12	42	PY20d	13,2	max. 50	850±15%	860/1720	38 <sup>P.56</sup>
62150CBH <sup>18)</sup>		12	55	P14.5s	13,2	max. 68	700±10%	200/400	7 <sup>P.56</sup>
62151CBH <sup>18)</sup>		12	70	PK22s	13,2	max. 75	750±10%		11 <sup>P.56</sup>
62193CBH <sup>18)</sup>		12	60/55	P43t	13,2	max. 75/68			15 <sup>P.56</sup>
62200 <sup>18)</sup>	H1	12	100	P14.5s	13,2	93±8%	2600±10%	1000/2000	6 <sup>P.56</sup>
62201 <sup>18)</sup>	H3	12	100	PK22s	13,2	max. 100	2300±10%	50/200	10 <sup>P.56</sup>
62203 <sup>18)</sup>		12	100/80	P43t	13,2	max. 103/80	2900±10%/1500±15%	50//X/90//200	17 <sup>P.56</sup>
62210CBH <sup>18)</sup>		12	55	PX26d	13,2	max. 58			20 <sup>P.56</sup>
62248 <sup>18)</sup>	H4	24	100/90	P43t	28	max. 110/99	2600±15%/1700±15%	150/300	17 <sup>P.56</sup>
64111 <sup>4)</sup>		12	5	BA9s	13,5	5±7,5%	80±15%	150/500	69 <sup>P.57</sup>
64113 <sup>4)</sup>		12	10	BA9s	13,5	10±7,5%	200±15%	150/400	69 <sup>P.57</sup>
64115		12	20	BA9s	13,5	22,5±7,5%	450±15%	150/500	69 <sup>P.57</sup>

# INDEX

Product reference	ECE	V	W		Test voltage V	Power consumption W	lm	Lifespan B <sub>3</sub> /T <sub>c</sub> <sup>20)</sup>	 No.
64122MF		12	3	B10d-14.5	13,5	3±7,5%	29±15%	900/2000	75 <sup>P.57</sup>
64124MF		12	5	B10d-14.5	13,5	5±7,5%	53±15%	900/2000	75 <sup>P.57</sup>
64132	H6W	12	6	BAX9s	13,5	7±5%	125±12%	350/700	70 <sup>P.57</sup>
64132ULT	H6W	12	6	BAX9s	13,5	7±5%	125±12%	600/1000	70 <sup>P.57</sup>
64136	H21W	12	21	BAY9s	13,5	25±5%	600±12%	300/600	64 <sup>P.57</sup>
64138	H21W	24	21	BAY9s	28,0	28±5%	600±125%	150/400	64 <sup>P.57</sup>
64150 <sup>5)</sup>	H1	12	55	P14.5s	13,2	max. 68	1550±15%	400/650	6 <sup>P.56</sup>
64150CBI <sup>5)</sup>	H1	12	55	P14.5s	13,2	max. 68	1550±15%	400/650	7 <sup>P.56</sup>
64150NBP	H1	12	55	P14.5s	13,2	max. 68	1550±15%	150/300	5 <sup>P.56</sup>
64150SV2 <sup>5)</sup>	H1	12	55	P14.5s	13,2	max. 68	1550±15%	250/450	6 <sup>P.56</sup>
64150ULT <sup>5)</sup>	H1	12	55	P14.5s	13,2	max. 68	1550±15%	1200/2000	6 <sup>P.56</sup>
64151 <sup>5)</sup>	H3	12	55	PK22s	13,2	max. 68	1450±15%	400/650	10 <sup>P.56</sup>
64151CBI <sup>5)</sup>	H3	12	55	PK22s	13,2	max. 68	1450±15%	400/650	11 <sup>P.56</sup>
64151NBP	H3	12	55	PK22s	13,2	max. 68	1450±15%	150/300	9 <sup>P.56</sup>
64152 <sup>11) 18)</sup>		12	100	PX14.5s	13,2	93±5%	2600±10%	22,5/50 <sup>15)</sup>	6 <sup>P.56</sup>
64153 <sup>12) 18)</sup>		12	100	PKY22s	13,2	85±5%	2300±10%	50 <sup>15)</sup>	10 <sup>P.56</sup>
64155	H1	24	70	P14.5s	28,0	max. 84	1900±15%	400/650	6 <sup>P.56</sup>
64155TSP	H1	24	70	P14.5s	28,0	max. 84	1900±15%	600/1200	6 <sup>P.56</sup>
64156	H3	24	70	PK22s	28,0	max. 84	1750±15%	400/650	10 <sup>P.56</sup>
64156TSP	H3	24	70	PK22s	28,0	max. 84	1750±15%	600/1200	10 <sup>P.56</sup>
64173	H2	12	55	X511	13,2	max. 84	1800±270	90/250	8 <sup>P.56</sup>
64175	H2	24	70	X511	28,0	max. 84	2150±15%	90/250	8 <sup>P.56</sup>
64176 <sup>5)</sup>	H15	12	15/55	PGJ23t-1	13,2	max. 19/64	200/ 1330±10%	2000//4000/ 250//300	24 <sup>P.56</sup>
64177	H15	24	20/60	PGJ23t-1	28,0	max. 84	2150±15%	90/250	24 <sup>P.56</sup>
64183 <sup>7)</sup>	R2	12	45/40	P45t	13,2	48,5/ 46,5±6%	1030/740 +12%/+5% -15%	250//400/ 500//900	18 <sup>P.56</sup>
64185	HS1	12	35/35	PX43t	13,2	max. 36,8/ 36,8	825/ 520±15%	150//150/ 300//300	17 <sup>P.56</sup>
64185SVS	HS1	12	35/55	PX43t	13,2	max. 36,8/ 36,8	820/520 ±15%	150//150/ 300//300	17 <sup>P.56</sup>
64193	H4	12	60/55	P43t	13,2	max. 75/68	1650/1000 ±12%/±15%	250//400/ 500//900	17 <sup>P.56</sup>
64193CBI <sup>9)</sup>	H4	12	60/55	P43t	13,2	max. 75/68	1650/1000 ±12%/±15%	250//400/ 500//900	12 <sup>P.56</sup>
64193NBP	H4	12	60/55	P43t	13,2	max. 75/68	1650/1000 ±10%/±7%	250//400/ 500//900	14 <sup>P.56</sup>
64193NRP	H4	12	60/55	P43t	13,2	max. 75/68	1650/1000 ±12%/±15%	250//400/ 500//900	14 <sup>P.56</sup>
64193SV2 <sup>9)</sup>	H4	12	60/55	P43t	13,2	max. 75/68	1650/1000 ±10%/±7%	250//400/ 450//700	16 <sup>P.56</sup>
64193ULT <sup>9)</sup>	H4	12	60/55	P43t	13,2	max. 75/68	1650/1000 ±12/±15%	250//1200/ 500//3000	13 <sup>P.56</sup>
64193XR	H4	12	60/55	P43t	13,2	max. 75/68	1650/1000 ±15%	50//100/ 150//350	15 <sup>P.56</sup>
64194 <sup>12) 18)</sup>		12	100/80	PU43t	13,2	max. 109/85	2900/1500	75/150 ±15%	17 <sup>P.56</sup>
64196	H4	24	75/70	P43t	28,0	max. 85/80	1900/1200 ±15%	170//350/ 400//800	17 <sup>P.56</sup>
64196TSP	H4	24	75/70	P43t	28,0	max. 85/80	1900/1200 ±15%	140//300/ 450//1000	17 <sup>P.56</sup>
64198 <sup>18)</sup>	R2	12	60/55	P45t	13,2	max. 75/68	1650/1000 ±15%	250//400/ 500//900	18 <sup>P.56</sup>
64199 <sup>18)</sup>	H4	24	75/70	P45t	28,0	max. 85/80	1900/1200 ±15%	400/800	18 <sup>P.56</sup>
64203 <sup>18)</sup>		12	100/80	P45t	13,2	max. 109/85	2600/1500 ±15%	50//110/ 75//150	18 <sup>P.56</sup>
64205	H7	12	65/70	P43t	13,2	max. 75/69	2000/1350 ±10%	70//100/ 100//200	17 <sup>P.56</sup>
64206 <sup>18)</sup>		12	80/85	P43t	13,2	max. 90/85	2400/1750 ±10%	70//100 100//200	17 <sup>P.56</sup>
64210 <sup>5)</sup>	H7	12	55	PX26d	13,2	max. 58	1500±10%	330/550	22 <sup>P.56</sup>
64210CBI <sup>9)</sup>	H7	12	55	PX26d	13,2	max. 58	1500±10%	330/550	20 <sup>P.56</sup>
64210NBP	H7	12	55	PX26d	13,2	max. 58	1500±10%	150/250	19 <sup>P.56</sup>
64210NRP	H7	12	55	PX26d	13,2	max. 58	1500±10%	100/200	19 <sup>P.56</sup>
64210SV2 <sup>8)</sup>	H7	12	55	PX26d	13,2	max. 58	1500±10%	250/450	21 <sup>P.56</sup>
64210ULT <sup>8)</sup>	H7	12	55	PX26d	13,5	max. 58	1500±10%	700/1000	21 <sup>P.56</sup>
64210XR	H7	12	55	PX26d	13,2	max. 58	1500±10%	100/200	20 <sup>P.56</sup>

Product reference	ECE	V	W		Test voltage V	Power consumption W	lm	Lifespan B <sub>3</sub> /T <sub>c</sub> <sup>20)</sup>	 No.
64211 <sup>5)</sup>	H11	12	55	PGJ19-2	13,2	max. 62	1350±10%	350/500	27 <sup>P.56</sup>
64211CBI	H11	12	55	PGJ19-2	13,2	max. 62	1350±10%	450/930	28 <sup>P.56</sup>
64211SV2	H11	12	55	PGJ19-2	13,5	max. 62	1350±10%	250/450	27 <sup>P.56</sup>
64211NBP	H11	12	55	PGJ19-2	13,5	max. 65	1350±10%	150/250	29 <sup>P.56</sup>
64212 <sup>5)</sup>	H8	12	35	PGJ19-1	13,2	max. 43	800±15%	400/800	30 <sup>P.56</sup>
64213 <sup>5)</sup>	H9	12	65	PGJ19-5	13,2	max. 73	2100±10%	250/500	31 <sup>P.56</sup>
64215	H7	24	70	PX26d	28,0	max. 75	1750±10%	220/500	22 <sup>P.56</sup>
64215TSP	H7	24	70	PX26d	28,0	max. 80	1750±10%	500/1000	22 <sup>P.56</sup>
64216TSP	H11	24	70	PGJ19-2	28,0	max. 80	1600±10%	500/1000	27 <sup>P.56</sup>
64217 <sup>18)</sup>		12	65	PX26d	13,2	max. 73	2100±10%	250/500	22 <sup>P.56</sup>
64218 <sup>18)</sup>		12	65	PX26d	13,2	max. 73	2100±10%	250/500	22 <sup>P.56</sup>
64219L+	H16	12	19	PGJ19-3	13,2	max. 26	500+10% -15%	1150/2000	25 <sup>P.56</sup>
64241 <sup>5)</sup>	H11B <sup>13)</sup>	12	55	PGJY19-2	13,2	max. 62	1350±10%	350/440	26 <sup>P.56</sup>
64242 <sup>5)</sup>	H8B <sup>13)</sup>	12	35	PGJY19-1	13,2	max. 43	800±15%	400/620	26 <sup>P.56</sup>
64243 <sup>5)</sup>	H9B <sup>13)</sup>	12	65	PGJY19-5	13,2	max. 73	2100±10%	250/500	32 <sup>P.56</sup>
66140SVS <sup>1)</sup>	D1S <sup>10)</sup>	<sup>10)</sup>	35	PK32d-2	13,5	35±3%	3200±15%	1500/2500	1 <sup>P.56</sup>
66144 <sup>1)</sup>	D1S <sup>10)</sup>	<sup>10)</sup>	35	PK32d-2	13,5	35±3%	3200±15%	2000/3000	1 <sup>P.56</sup>
66144CBI <sup>1)</sup>	D1S <sup>10)</sup>	<sup>10)</sup>	35	PK32d-2	13,5	35±3%	3200±15%	2000/3000	1 <sup>P.56</sup>
66154 <sup>2)</sup>	D1R <sup>10)</sup>	<sup>10)</sup>	35	PK32d-3	13,5	35±3%	2800±16%	2000/3000	2 <sup>P.56</sup>
66154CBI <sup>1)</sup>	D1R <sup>10)</sup>	<sup>10)</sup>	35	PK32d-3	13,5	35±3%	2800±15%	1500/2000	2 <sup>P.56</sup>
66240 <sup>1)</sup>	D2S <sup>10)</sup>	<sup>10)</sup>	35	P32d-2	13,5	35±3%	3200±15%	2000/3000	3 <sup>P.56</sup>
66240CBI <sup>1)</sup>	D2S <sup>10)</sup>	<sup>10)</sup>	35	P32d-2	13,5	35±3%	3200±15%	1500/2500	3 <sup>P.56</sup>
66240SVS <sup>1)</sup>	D2S <sup>10)</sup>	<sup>10)</sup>	35	P32d-2	13,5	35±3%	3200±15%	1500/2500	3 <sup>P.56</sup>
66250 <sup>2)</sup>	D2R <sup>10)</sup>	<sup>10)</sup>	35	P32d-3	13,5	35±3%	2800±16%	2000/3000	4 <sup>P.56</sup>
66250CBI <sup>2)</sup>	D2R <sup>10)</sup>	<sup>10)</sup>	35	P32d-3	13,5	35±3%	2800±16%	1500/2500	4 <sup>P.56</sup>
66340 <sup>1)</sup>	D3S <sup>10)</sup>	<sup>10)</sup>	35	PK32d-5	13,5	35±3%	3200±15%	1500/2500	1 <sup>P.56</sup>
66350 <sup>2)</sup>	D3R <sup>10)</sup>	<sup>10)</sup>	35	PK32d-6	13,5	35±3%	2800±16%	1800/2500	2 <sup>P.56</sup>
66440 <sup>1)</sup>	D4S <sup>10)</sup>	<sup>10)</sup>	35	P32d-5	13,5	35±3%	3200±15%	1500/2500	3 <sup>P.56</sup>
66450 <sup>2)</sup>	D4R <sup>10)</sup>	<sup>10)</sup>	35	P32d-6	13,5	35±3%	2800±16%	1500/2500	4 <sup>P.56</sup>
66548 <sup>2)</sup>	D8S <sup>10)</sup>	<sup>10)</sup>	25	PK32d-1	13,5	35±3%	3200±15%	2000/3000	1 <sup>P.56</sup>
94193	H4	12	60/55	P43t	13,2	max. 75/68	1650±12%/ 1000±15%	300//1100/ 500//2400	17 <sup>P.56</sup>
94196	H4	24	75/70	P43t	28,0	max. 85/80	1900/1200/ ±15%	170//500/ 400/1500	17 <sup>P.56</sup>
LEDDRL101		12	15		14,0	15,0	400	5000	-
LEDDRL301		12	15		14,0	13,5	300	5000	-
XENAELECTRON XT5-1-D1/24V	D1S & D1R	24	35		13,5	ca. 41 <sup>16)</sup>		> 3000	77 <sup>P.56</sup>
XENAELECTRON XT5-2-D1/12V BH	D1S & D1R	12	35		13,5	ca. 41 <sup>16)</sup>		> 3000	78 <sup>P.56</sup>
XENAELECTRON XT5-2-D3/12V BH	D3S & D3R	12	35		13,5	ca. 41 <sup>17)</sup>		> 3000	78 <sup>P.56</sup>
XENAELECTRON XT5-3-D1/24V TAB	D1S & D1R	24	35		13,5	ca. 41 <sup>16)</sup>		> 3000	76 <sup>P.56</sup>
XENAELECTRON XT5-D1/12V	D1S & D1R	12	35		13,5	ca. 41 <sup>16)</sup>		> 3000	77 <sup>P.56</sup>
XENAELECTRON 35XT6-S-D3/12V	D3S & D3R	12	35		13,5	ca. 41 <sup>16)</sup>		> 3000	78 <sup>P.56</sup>
XENAELECTRON 25XT6-A/12V	D8S	12	25		13,5	ca. 41 <sup>16)</sup>		> 3000	78 <sup>P.56</sup>
M-J1A-260-J2B									79 <sup>P.56</sup>
V-J1D-240-J2A									79 <sup>P.56</sup>
V-J1D-165-J2A									79 <sup>P.56</sup>

- 1) Reduced UV emission | For projection headlights | ECE approval and DOT label
- 2) Reduced UV emission | With anti-glare strip for reflection headlights | ECE approval and DOT label
- 3) Amber lamps for clear indicators
- 4) Also available with glass base (article reference 6411150 or 6411350)
- 5) Lamps comply with ECE R 37 and SAE (DOT) regulations
- 6) Red lamp for clear reversing/brake lights
- 7) Successor to the BILUX® AS® lamp (article reference 7951)
- 8) Lamps comply with ECE R 37 and SAE (DOT) regulations | With silver cap
- 9) With silver cap
- 10) To be operated only with approved electronic control gear
- 11) 2600 lm | Generally on normal roads

- 12) Generally on normal roads
- 13) New development for simple lamp replacement and highly efficient headlights; supplied on request
- 14) SAE category reference. H4 with strict geometrical tolerances
- 15) B<sub>50</sub> = average lifespan  
Explanation: 1-filament lamp e.g. 100  
2-filament lamp e.g. 100/300
- 16) For operating an OSRAM D1 XENARC® electronic 35 W gas discharge lamp
- 17) For operating an OSRAM D3 XENARC® electronic 35 W gas discharge lamp
- 18) These products do not have ECE approval. This means that they cannot be fitted in "normal" headlights or additional headlights if the vehicle is to be used on public highways. | OFF-ROAD only. | Not for use on public roads
- 19) Only approved for use in interiors or off-road

20) What do B<sub>3</sub> and T<sub>c</sub> mean in connection with the service life of bulbs?

If we consider the service lives of products that are designed to last a certain time, we can see that they all have the same or similar failure characteristics.















If we plot the service lives of the individual bulbs on special logarithmic graph paper, the graph produced is called a "Weibull distribution curve".

In a stable production process we obtain a straight line for the service life on which we can read off various life values. For its products in the automotive sector OSRAM specifies a B<sub>3</sub> value, which indicates the time at which 3% of the tested bulbs have failed. OSRAM also specifies the T<sub>c</sub> value (characteristic Weibull value), which indicates the time at which 63.2% of the bulbs have failed. In former times only the average value was specified (the average life), which in this system would correspond to a B<sub>50</sub> value (i.e. the time at which 50% of the bulbs have failed). By specifying both the B<sub>3</sub> value and the T<sub>c</sub> value it is possible to get an idea of the spread of the product's service life and hence the quality of the product.

Explanation: 1-filament lamp e.g. 100/300  
2-filament lamp e.g. 100//300/500//100

B<sub>3</sub>
T<sub>c</sub>

## Symbols

	Int. category label ECE
	Connector code (lamp side)
	Connector code (ECG side)
	Rated wattage in watts
	Voltage in volts
	Luminous flux in lumen
	Color temperature in K
	Temperature range
	Base
	Fig. no.
	Width b in mm
	Height h in mm
	Length l in mm
	Shipping unit

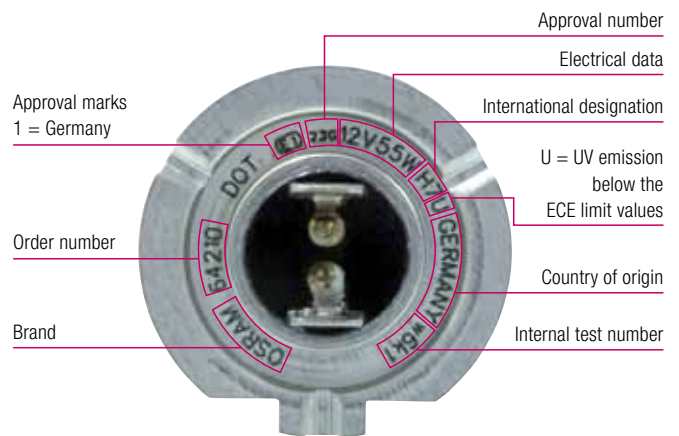
Any manipulation of our products or packaging, including but not limited to modification, reworking or restamping, is prohibited and infringes our registered trademark rights. Such modifications may impair the technical properties of our products, destroy them or cause consequential damage or injury, for which OSRAM cannot under any circumstances be held responsible.

For more information on our products, go to:  
[www.osram.com](http://www.osram.com)



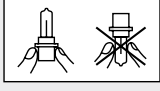


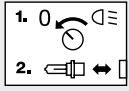











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## Base stamp



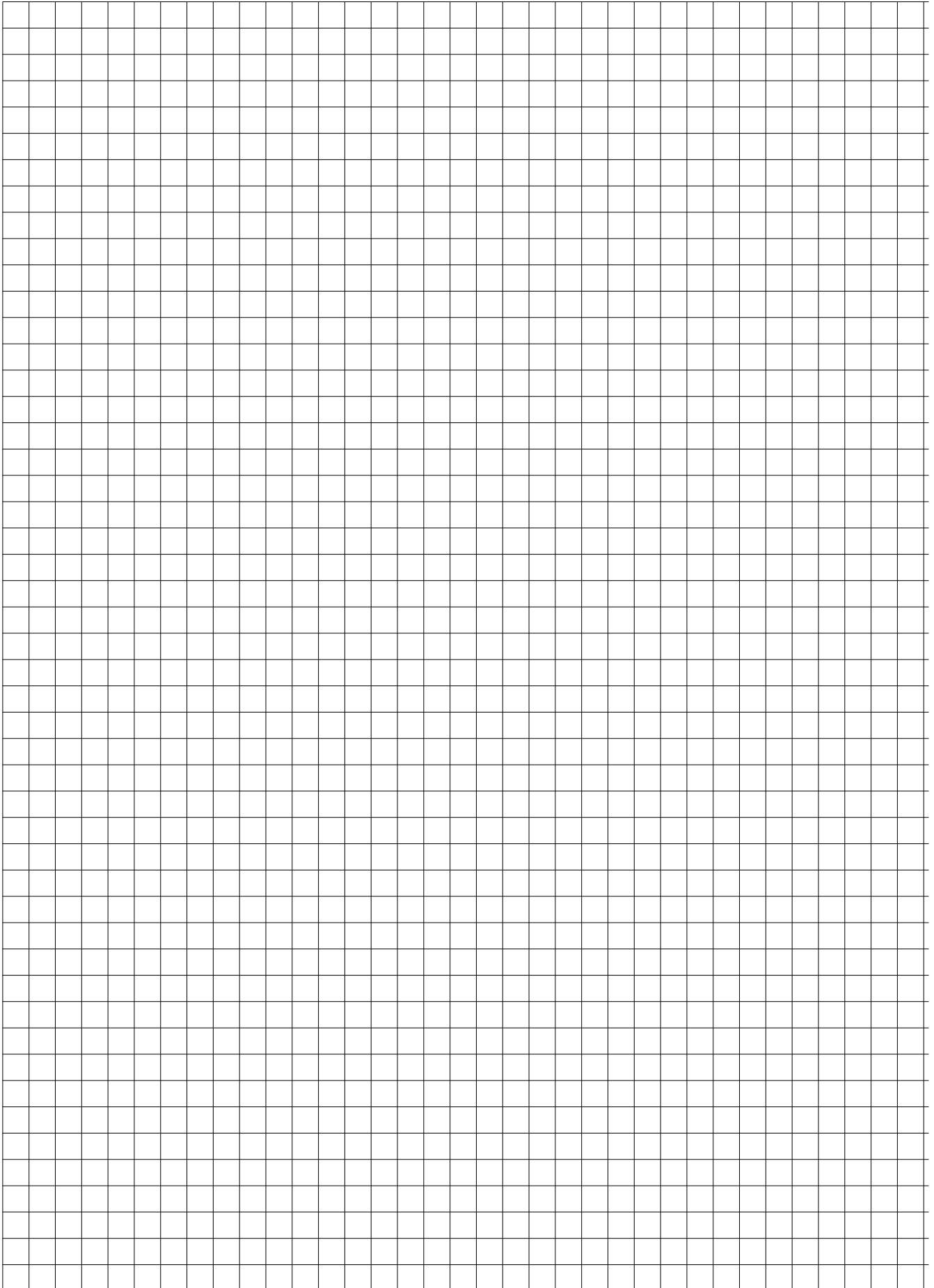
The most important data on an OSRAM H7 lamp.

## Hinweise zur Produktkennzeichnung

	Do not touch the glass bulb; hold the base when inserting		Do not throw away with household waste
	High levels of UV radiation		Switch off lights before replacing lamp
	Electronic control gear should be installed and maintained only by qualified specialists		Ignition procedure for lamps with external igniter
	Caution: hot		Lamp cannot be dimmed
	Dangerous voltage		Wear suitable gloves when fitting or removing
	Do not use the lamp if the glass bulb is scratched or damaged		Protect against splashes
	Wear suitable goggles when fitting or removing		Operate only in shielded luminaires
	Not for residential lighting		



NOTES



Low beam/full beam  



Fog light 



Parking/marker light 



Indicator, brake, rear fog and reversing light lamps



Number plate light 



Side-marker light 



Number plate light 



Indicator 



Parking/marker light 



Side-marker light 



Parking/marking light 

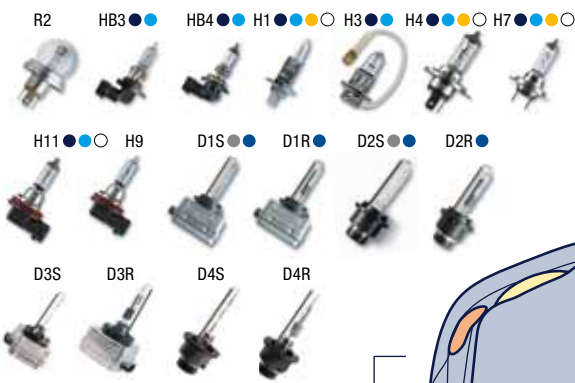


Indicator, brake, rear fog and reversing light lamps



# SUMMARY OF TYPES AND APPLICATIONS OF AUTOMOTIVE LAMPS

## Low beam/full beam



## Front indicator



## Side indicator



## Brake light



## Brake light/taillight



## Taillight



## Reversing light



## Fog light



## Parking/marker light



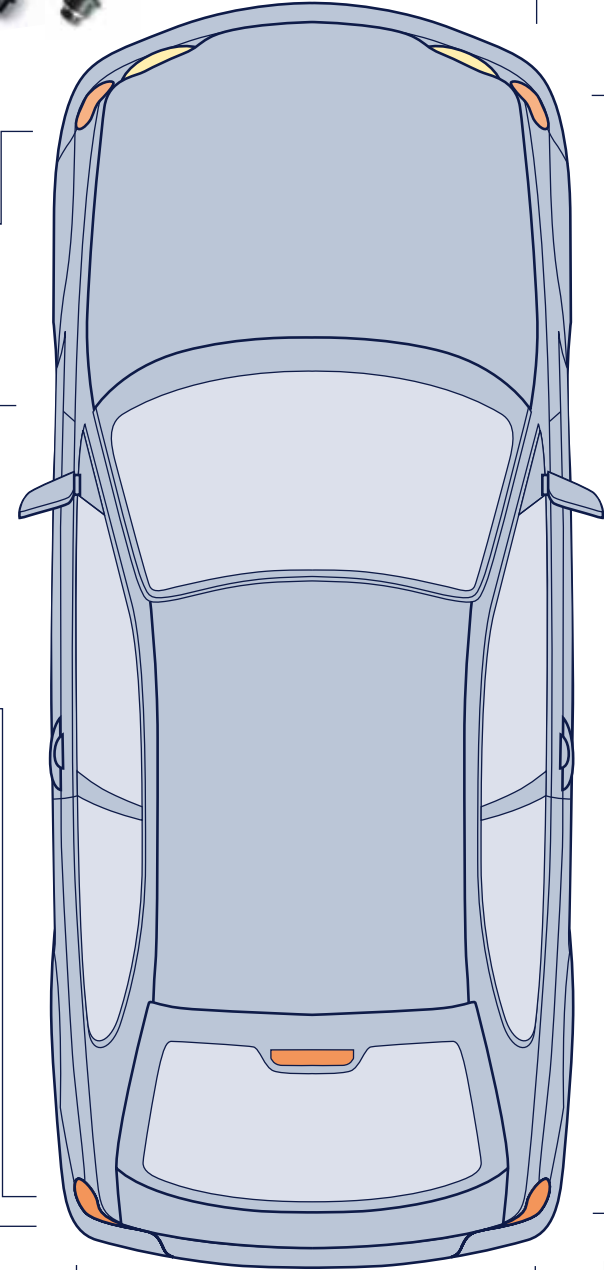
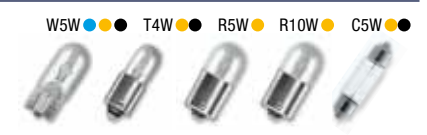
## Rear indicator



## Rear fog light

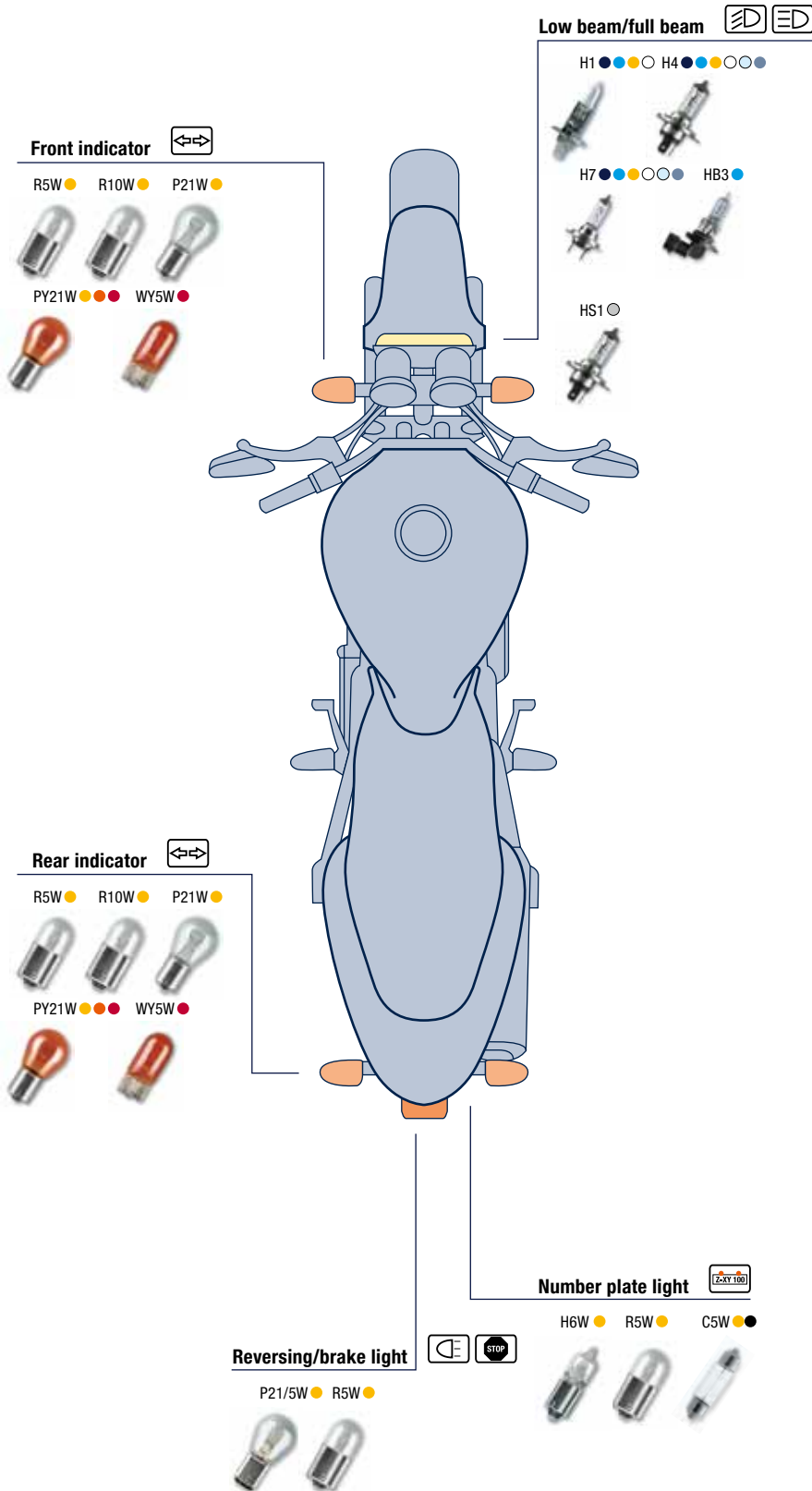


## Number plate light





## SUMMARY OF TYPES AND APPLICATIONS OF AUTOMOTIVE LAMPS



### ● NIGHT BREAKER® PLUS

- Up to 90 % more light on the road<sup>1)</sup>
- Up to 35 m longer beam of light<sup>1)</sup>
- Up to 10 % whiter light<sup>1)</sup>
- Up to 50 % longer life <sup>1)</sup> (Extra Lifetime)

### ○ SILVERSTAR® 2.0

- Up to 60 % more light on the road<sup>1)</sup>
- Up to 20 m longer light cone<sup>1)</sup>
- Up to double the service life<sup>3)</sup>

### ○ SILVERSTAR®

- Up to 50 % more light on the road<sup>1)</sup>
- Up to 20 m longer light cone<sup>1)</sup>

### ● XENARC® SILVERSTAR®

- The most powerful xenon automotive lighting in the world
- Up to 30 % more light than standard xenon lamps and up to 130 % more light than halogen lamps for passenger cars
- Up to 20 m longer light beam <sup>4)</sup> than standard xenon lamps

### ● COOL BLUE® INTENSE

- Bright bluish-white light (up to 4,200 Kelvin, similar to light from xenon lamps)
- Up to 20 % more light<sup>5)</sup>
- Brighter and therefore easier on the eyes

### ● XENARC® COOL BLUE® INTENSE

- Considerably greater luminous flux with up to 20 % more light<sup>6)</sup> for perfect road illumination and individual light design
- COOL BLUE® effect through even higher color temperature (5500 Kelvin), clearer outer bulb and thus even light distribution

### ● ULTRA LIFE

- First branded lamp for passenger cars with 3-year guarantee<sup>7)</sup>
- Lasts up to three times longer<sup>1)</sup>
- Ideally suited as daytime running light
- Perfect for cars with complex lamp changing procedures

### ● DIADEM®

- Only colored when working
- Interference coating (not painted)
- Color does not fade over time
- Up to double the service life<sup>1)</sup>
- Discreet blue shimmer when switched-off

### ● DIADEM® Chrome

- Only colored when working
- Interference coating (not painted)
- Color does not fade over time
- NEW: Almost invisible when switched off

### ● NIGHT RACER® PLUS

- Up to 90 % more light on the road<sup>1)</sup>
- Up to 35 m longer light cone<sup>1)</sup>

### ○ X-RACER®

- Bright bluish-white light (up to 4,200 Kelvin, similar to light from xenon lamps)
- Up to 20 % more light<sup>5)</sup>

### ● TRUCKSTAR® PRO

- Up to 100 % more light on the road<sup>1)</sup>
- Up to 2.5x service life<sup>8)</sup>
- Greater safety thanks to better illumination of the road

### ● OSRAM LED Retrofits<sup>9)</sup>

- Completely new light effect through a color temperature of up to 6000 K
- Up to 80 % lower power consumption than standard lamps
- Uniform light, no spotty lighting
- Lamp types with high sales' potential: LEDW5W, LEDT4W and LEDC5W (structure corresponds to the halogen variants C5W, W5W and T4W)
- Each in "warm" (4000 K) and "cool" versions (6000 K)
- LED retrofit lamps for numberplate lighting (off-road use)

### ○ OSRAM LED LIGHT@DAY® daytime running light

- Noticeable design: The curved design makes the vehicle seem more dynamic
- Dual function: Daytime running and position light (optional)
- Up to 6000 Kelvin
- Suitable for many vehicle models, easy installation
- Low power consumption
- Thanks to the high IP 69K protection rating, intensive car washes do not pose a threat to the LED daytime running light
- ECE R87 approval

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