www.osram.com/automotive



Light is motion Light range 2018/2019

Global No.1 in Automotive Lighting

Light is OSRAM

OSRAM

Quite simply the best solution

OSRAM provides the perfect vehicle lamp for every use and every requirement, be it in cars, motorcycles, trucks or off-road, be it LED, xenon or halogen, and whether for performance or design-oriented drivers.

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■ NIGHT RACER® 50 Excellent performance-lifetime ratio H4, H7, H11, HS1 66 ■ X-RACER® Bluish-white light for xenon look H4, H7, H8, H11, HS1, S2 68	■ NIGHT RACER® 110	Brightest OSRAM motorcycle light	H4, H7, H8, H11	64
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	ORIGINAL	Original spare part	H4, H7, HS1, S1, S2, R2	68

¹⁾ These products do not have ECE approval. This means they must not be used on public roads in any exterior application. Use on public roads leads to cancellation of operating license and loss of insurance coverage. Several countries do not allow sale and use of these products. Please contact your local distributor for information on the availability in your country. | 2) With online product registration. Refer to www.osram.com/am-guarantee for precise conditions and registration | 3) Refer to www.osram.com/am-guarantee for precise conditions | 4) 4th year with online product registration. Refer to www.osram.com/am-guarantee for precise conditions and registration



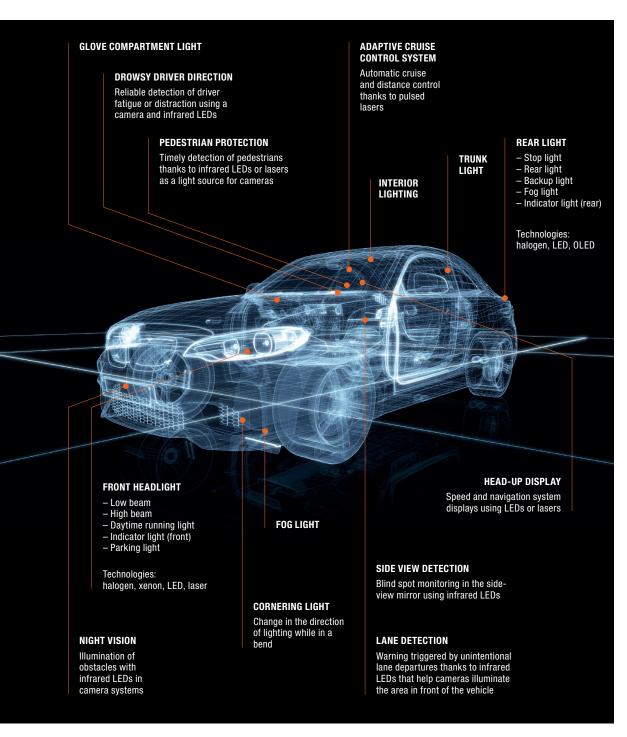
Category	Highlight Feature	ECE/Range	Page
Halogen truck			
TRUCKSTAR® PRO	Brightest OSRAM truck light	H1, H3, H4, H7, H11, PY21W, P21W, P21/5W, W5W, R5W, R10W, T4W	72
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Spare lamp kit for trucks and buses			76
Off-road			
SUPER BRIGHT PREMIUM ¹⁾ SUPER BRIGHT ¹⁾	Extra power for off-road use	P14.5s (H1), PK22s (H3), P43t (H4), PX26d (H7), P20d (HB3/HB3A), PX14.5s, PKY22s, PU43t, P45t (R2)	80
XENARC® COOL BLUE® BOOST ¹⁾	Hyper blue light for off-road use	PK32d-2 (D1S), P32d-2 (D2S), PK32d-5 (D3S), P32d-5 (D4S)	82
COOL BLUE® BOOST ¹⁾		P14.5s (H1), P43t (H4), PX26d (H7), PGJ19-5 (H9), PGJ19-2 (H11), P20d (HB3/HB3A), P22d (HB4/HB4A)	
LED fixtures			
■ LEDriving® headlights (VW Golf VII)	Easy and legal full LED redesign	LEDHL103-GTI/-CM/-BK, LEDHL104-GTI/-CM/-BK	86
■ LEDriving® XENARC® headlights (Ford Focus, VW Golf VI)	Easy and legal LED and xenon redesign	LEDHL105, LEDHL102-GTI/-CM/-BK	88
■ LEDriving® working and driving lights	See the difference with auxiliary headlights	LEDDL101/102/103/104/105/106/107	90
LEDriving® daytime running lights	Increase visibility during the day	LEDDRL102, LEDDRL301 CL15	92
■ LEDriving [®] fog lights	Improving both visibility and style	LEDFOG102, LEDFOG103-SR/-BL LEDFOG201	94
LED styling lights			
LEDambient® CONNECT¹)	Individual, app-controlled LED ambience	LEDEXT101, LEDINT103, LEDEXT102-03/-04/-10, LEDINT102/104	102 1
LEDambient®	Individual, remote-controlled LED ambience	LEDINT201/201-SEC/202/203	104
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LEDinspect®	LED inspection lights for private usage	LEDIL201/202/203/204/205/205-PK 205-BKPK/206/207/209	112
LEDguardian ^{®1)}	LED warning lights for emergency	LEDSL101/302	116
ONYX COPILOT®	Flexible LED reading light	ONYX-USB, ONYX M-7, ONYX L-7	118
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⁵⁾ Compared to minimum ECE R112 requirements | 6) Please note: This catalogue contains an international portfolio. Several countries do not allow sale and use of non-ECE approved products. Please contact your local distributor for information on the availability in your country.

All OSRAM 12 V and 24 V halogen automotive lamps are UV-reduced, can replace existing lamps and meet the relevant standards, e.g. ECE R37 (with the exception of OFF-ROAD lamps)

200 best reasons for OSRAM – the number 1 worldwide

On average, around 200 lamps are fitted in every car – that's 200 times top quality from OSRAM, the global leader in lighting solutions on and in your vehicle. OSRAM is a leader in innovation and technology, and sells the highest volume of lamps in the fast growing OEM market for cars, as well as in the rapidly expanding market for replacement lamps.



From the headlights to the rear lights

No matter where you look in a car, you will find lights.

Their possible applications are immense. Several examples show the many different ways that OSRAM products manufactured across the world are used.

Here you can see the wide range of possible applications of lights in cars.

Greater Performance, enhanced safety and a modern design are the trends for modern vehicle lighting – and also the focus of our research.

OSRAM color code packaging – Go for your perfect match

Packaging for OSRAM vehicle lamps, luminaires and LED innovations perfectly cover with its clear, comprehensible color coding system all demands and types of customer.



Color coding at a glance

INNOVATION Latest LED technology: Lamps and fixtures for a modern look.

PERFORMANCE More brightness: Luminous intensity and maximum light output.

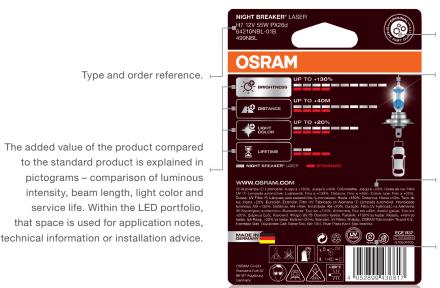
DESIGN Stylish light: Modern look due to bluish-white light.

COMFORT Longer lifetime: Drive more, exchange less.

ORIGINAL Original spare part: Lamps with proven OEM quality.

Packaging information at a glance

The OSRAM packaging design has a twofold effect: eye-catching from a distance – and clear, persuasive information when seen up close, according to the motto "less is more".



Quality indicator – original spare part in OEM quality.

Clear visualization of product and corresponding application. Always replace in pairs.

Regionally required text and barcode for optimum consumer information. Changes from region to region due to different regional requirements.

Application notes, safety information and mandatory pictograms.



Get in touch with us and learn more about the OSRAM packaging concept: www.osram.com/the-perfect-match

Portfolio overview LED



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INNOVATION / LED RETROFITS

LEDriving® HL¹) LED high and low beam



Light in a new dimension

The OSRAM LED high and low beam lamps represent the most convenient solution in order to upgrade your existing headlights providing a stylish cool white look with 6,000 K as well as improved visibility for everything that lies ahead of you.

Range

P43t (H4), PX26d (H7), PGJ19-2 (H11), P22d (HB4)



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LEDriving® FL1) **LED** fog lamp

INNOVATION / LED RETROFITS



Light is maximum visibility

The new LEDriving® FL as socket solution provides an upgrade for conventional fog lamps with SSL technology and a color temperature of 6,000 K. These LED fog lamps matches perfectly existing LED daytime running lights and xenon low- and high-beam systems.

Range

PGJ19 (H8/H11/H16), PY20d (H10)





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INNOVATION / LED RETROFITS

LEDriving® SL & PREMIUM SL¹⁾ **LED** signal lamps



Wide range of different bases

Perfect for a multitude of applications, OSRAM LED signal lamps LEDriving® SL & PREMIUM SL illuminate vehicle exteriors with high color temperatures of up to 6,000 K.

Range

BA15s (P21W), BAY15d (P21/5W), BAU15s (PY21W), W2.5x16q (P27/7W), PG20-1 (P13W), PG18.5d-1 (PS19W), BA9s (T4W), W2.1x9.5d (W5W, WY5W, W16W), W3x16d (W21W), W3x16q (W21/5W)

¹⁾ These products do not have ECE approval. This means they must not be used on public roads in any exterior application. Use on public roads leads to cancellation of operating license and loss of insurance coverage. Several countries do not allow sale and use of these products. Please contact your local distributor for information on the availability in your country.





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INNOVATION / LED RETROFITS

LEDriving® SL & PREMIUM SL¹)
LED interior lamps



Wide range of different light colors

From dome light to foot area, from glove box to trunk, simply replace old lamps with OSRAM's plugand-play solution for LED signal lamps as LEDriving® SL and PREMIUM SL. Also available in PREMIUM for trucks (24 V).

Range

SV8.5-8 (C5W), BA9s (T4W), W2.1x9.5d (W5W, WY5W, W16W)

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LEDriving® headlight2)

INNOVATION / LED FIXTURES



Full LED redesign made easy – and legal

LEDriving® headlights bring a distinctive look to VW Golf VII cars, making it possible to upgrade from halogen or xenon headlights with LED daytime running lights and LED indicator lamps.

Range

VW Golf VII: CHROME, BLACK, GTI

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INNOVATION / LED FIXTURES

LEDriving® XENARC® headlight3)



Redesign made easy – and legal

LEDriving® XENARC® headlights bring a distinctive look to VW Golf and Ford Focus cars, making it possible to upgrade from halogen to xenon headlights with LED daytime running lights and LED indicator lamps.

Range

VW Golf VI: CHROME, BLACK, GTI Ford Focus: BLACK

²⁾ Only suitable for VW Golf VII car models with OEM halogen or OEM xenon-headlights with halogen daytime running light 3) Only suitable for Golf VI and Ford Focus cars with OEM halogen headlight





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INNOVATION / LED FIXTURES

LEDriving® working and driving lights¹)



See various application options

OSRAM's LED driving and working lights offer the most sophisticated LED technology and electrical design on the market. Products are available in three categories (functional, multifunctional and slim) offering a variety of performances, shapes and beam patterns with various illumination profiles like spot, wide and combo. Products are available for 12 and 24 voltage vehicles.

Range

CUBE MX85-SP/-WD, LIGHTBAR MX140-WD/-SP¹⁾, LIGHTBAR FX250-SP¹⁾/-CB¹⁾, LIGHTBAR FX500-SP¹⁾/-CB¹⁾, LIGHTBAR SX300-SP, LIGHTBAR SX500-SP

>> Page 92

INNOVATION / LED FIXTURES

LEDriving® daytime running lights



Stylish highlights for state-of-the-art headlights

Innovative, easy-to-install lightguide and pixel solution with high-quality LED technology for low energy consumption and long lifetime: LEDriving® daytime running lights are the right choice for drivers who want to increase visibility during the day and with an eye for design.

Range

LG, PX-5

¹⁾ Driving lights must be installed in pairs for 12/24 V-vehicles







INNOVATION / LED FIXTURES

LEDriving® fog lights

>> Page 102

INNOVATION / LED STYLING LIGHTS

LEDambient® CONNECT



>> Page 104

INNOVATION / LED STYLING LIGHTS

LEDambient®



Better sight, better looks

The models in OSRAM's LEDriving® fog lights series make the switch to new LED fog lights easier than ever: Coming with a range of additional mounting brackets, the fog lights can be configured to suit nearly all types of vehicles.

Range

FOG, FOG PL, FOG F1



Light is pulsating

The LEDambient® CONNECT family offers you to individualize your vehicle's look. Simple to install and run, these innovative LED products use Bluetooth® technology. Once paired to the free LEDambient® CONNECT app, you can synchronize your music with up to 10 LEDambient® CONNECT systems to pulse to the same beat.

Range

TUNING LIGHTS BASE KIT2), TUNING LIGHTS EXTENSION KIT2), PULSE CONNECT3), HYBRID CONNECT²⁾³⁾



Interior ambient lighting

The LEDambient® interior lights enable you to illuminate every single corner of your car. The high brightness of the products combined with the modern color temperatures puts your car into a new light. The LED strips are rapidly and easily mounted.

Range

TUNING LIGHTS BASE KIT2), TUNING LIGHTS EXTENSION KIT2, INTERIOR STRIP Kit2)

²⁾ These products do not have ECE approval. This means they must not be used on public roads in any exterior application. Use on public roads leads to cancellation of operating license and loss of insurance coverage. Several countries do not allow sale and use of these products. Please contact your local distributor for information on the availability in your country.

³⁾ Do not use while driving

Portfolio overview LED



>> Page 108

INNOVATION / LED INSPECTION LIGHTS

LEDinspect® PRO



Essential to your garage

The LEDinspect® PRO inspection lights are especially developed for the complex maintenance and repairs you tackle every day in your garage. Each unique lamp design reflects an understanding of professional applications and supplies light precisely where you need it.

Range

SLIMLINE 500, POCKET 280, PENLIGHT 150 UV-A, PENLIGHT 150, BONNET 1400, SLIMLINE 280



>> Page 112

INNOVATION / LED INSPECTION LIGHTS

LEDinspect®



Essential to your DIY toolbox

The rechargeable or ordinary battery-operated LED inspection lights are ideal for use at home. Equipped with durable, high-power LEDs, the luminaires provide optimum illumination for even the tightest spaces and difficult-to-access locations.

Range

FOLDABLE 80, MINI 125, PENLIGHT 80, POCKET 160, FLASHLIGHT 15, SLIMLINE 250, PROFESSIONAL 150, HEADLAMP 300



>> Page 116

INNOVATION / LED WARNING LIGHTS

LEDguardian®



Prepared for serious situations

OSRAM LEDguardian® warning lights are the ideal LED accessory for drivers who want to be equipped for any situation.

Range

SAVER LIGHT PLUS¹⁾, ROAD FLARE¹⁾



>> Page 118

INNOVATION / LED READING LIGHTS

ONYX COPILOT®



Good light for a good ride

ONYX COPILOT® is a flexible LED reading light with pleasantly warm, glare-free light. With its high flexibility, the ONYX COPILOT® light has a wide range of options for illuminating specific areas of the vehicle interior.

Range

ONYX-USB, ONYX M-7, ONYX L-7

¹⁾ Not approved as warning light according to German Road Traffic Licensing Regulations (StVZO). Not for sale in Germany.

Portfolio overview xenon



PERFORMANCE

XENARC® NIGHT BREAKER® LASER

UP TO +200% BRIGHTNESS¹⁾



DESIGN

XENARC® COOL BLUE® INTENSE

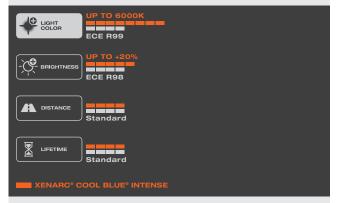
XENON EXTRA BLUE





ECE/Range D1S, D2S, D3S, D4S





ECE/Range D1S, D1R, D2S, D2R, D3S, D4S

¹⁾ Compared to minimum ECE R98 requirements



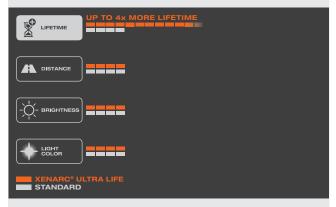
>> Page 40

COMFORT

XENARC® ULTRA LIFE

10-YEAR OSRAM GUARANTEE²⁾





ECE/Range D1S, D2S, D3S, D4S



ORIGINAL

XENARC® ORIGINAL

ORIGINAL SPARE PART





ECE/Range

D1S, D1R, D2S, D2R, D3S, D3R, D4S, D4R, D8S

²⁾ With online product registration. Refer to www.osram.com/am-guarantee for precise conditions and registration

Portfolio overview halogen car







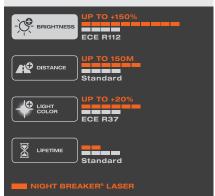
>> Page 46

PERFORMANCE

NIGHT BREAKER® LASER

UP TO +150% BRIGHTNESS¹⁾





ECE/Range H1, H3, H4, H7, H8, H11, HB3, HB4

>> Page 48

PERFORMANCE

NIGHT BREAKER® SILVER

UP TO +100% BRIGHTNESS¹⁾





ECE/Range H1, H4, H7, H11

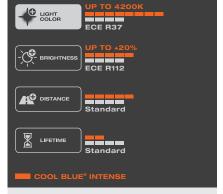
>> Page 50

DESIGN

COOL BLUE® INTENSE

XENON LOOK





ECE/Range

H1, H3, H4, H7, H8, H11, H15, H16, H27W/1, H27W/2, HB3, HB4, HIR2, W5W

¹⁾ Compared to minimum ECE R112 requirements













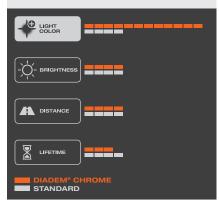
>> Page 52

DESIGN

DIADEM® CHROME / DIADEM®

AMBER / RED WHEN ON





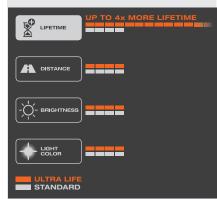
ECE/Range WY5W, PY21W, PR21W, PR21/5W

>> Page 54
COMFORT

ULTRA LIFE

4-YEAR OSRAM GUARANTEE²⁾





ECE/Range

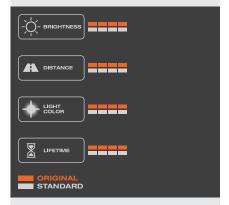
H1, H4, H7, H11, P21W, PY21W, P21/5W, W5W, R5W, R10W, C5W, H6W, HY21W

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ORIGINAL

ORIGINAL SPARE PART





ECE/Range

Complete Product Range

^{2) 4}th year with online product registration. Refer to www.osram.com/am-guarantee for precise conditions and registration

Portfolio overview halogen motorcycle







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PERFORMANCE

NIGHT RACER® 110

UP TO +110% BRIGHTNESS¹⁾





ECE/Range H4, H7, H8, H11

>> Page 64

PERFORMANCE

NIGHT RACER® 90

UP TO +90% BRIGHTNESS¹⁾





ECE/Range HS1

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PERFORMANCE

NIGHT RACER® 50

UP TO +50% BRIGHTNESS¹⁾





ECE/Range H4, H7, H11, HS1

¹⁾ Compared to minimum ECE R112 requirements



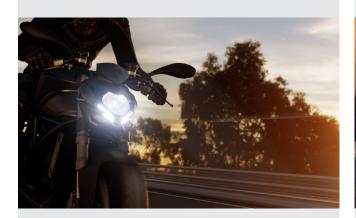


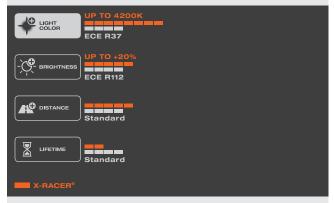
>> Page 68

DESIGN

X-RACER®

XENON LOOK





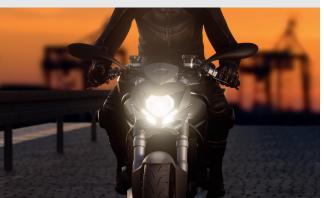
ECE/Range H4, H7, H8, H11, HS1, S2

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OTHIGHT IL

ORIGINAL

ORIGINAL SPARE PART





ECE/Range

H4, H7, S1, S2, R2, HS1

Portfolio overview halogen truck





>> Page 72

PERFORMANCE

TRUCKSTAR® PRO

UP TO +100% BRIGHTNESS1)

>> Page 74

ODICINI

ORIGINAL

ORIGINAL SPARE PART









ECE/Range

H1, H3, H4, H7, H11, PY21W, P21W, P21/5W, W5W, R5W, R10W, T4W

ECE/Range

Complete Product Range

¹⁾ Compared to minimum ECE R112 requirements

Portfolio overview off-road



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PERFORMANCE

SUPER BRIGHT/
SUPER BRIGHT PREMIUM²⁾

EXTRA POWER





ECE/Range

P14.5s (H1), PK22s (H3), P43t (H4), PX26d (H7), P20d (HB3/HB3A), PX14.5s, PKY22s, PU43t, P45t (R2)



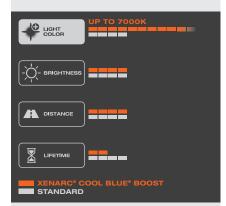
>> Page 82

DESIGN

XENARC® COOL BLUE® BOOST²⁾

XENON HYPER BLUE





ECE/Range

PK32d-2 (D1S), P32d-2 (D2S), PK32d-5 (D3S), P32d-5 (D4S)

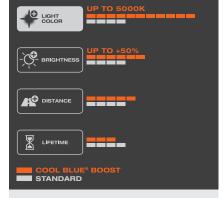


DESIGN

COOL BLUE® BOOST²⁾

HYPER BLUE





ECE/Range

P14.5s (H1), P43t (H4), PX26d (H7), PGJ19-5 (H9), PGJ19-2 (H11), P20d (HB3/HB3A), P22d (HB4/HB4A)

²⁾ These products do not have ECE approval. This means they must not be used on public roads in any exterior application. Use on public roads leads to cancellation of operating license and loss of insurance coverage. Several countries do not allow sale and use of these products. Please contact your local distributor for information on the availability in your country.



LEDriving® replacement lamps

OSRAM provides a wide range of LED replacement lamps for various applications. The LEDriving® RETROFIT portfolio includes LED high and low beam lamps, fog lamps, signal as well as interior lamps with superior brightness and color temperatures of up to 6,000 K.

OSRAM LEDriving® HL LED high and low beam in a new dimension

With a color temperature of 6,000 K and a very compact design, the OSRAM LEDriving® HL retrofits provide an easy solution to upgrade car headlights with cool white LED light – providing a stylish look as well as superior brightness. The LED high and low beam lamps by OSRAM as replacement of conventional H4, H7, HB4 and H11 lamps. With the latest LED technology and very compact design, these new lamps allow a high compatibility and an easy installation for an even wider range of car models. LEDriving® HL lamps are 12 V and 24 V compatible. The pair of lamps comes with a 5-year OSRAM guarantee¹¹ and with a long service life.



Features1)

- Cool White color temperature of 6,000 K
- Superior brightness
- Very compact LED replacement for conventional H4, H7, HB4 and H11 high and low beam lamps
- Premium OSRAM quality made in Italy
- Long lifetime of up to 5,000 h
- Integrated electronics, no external driver

Benefits1)

- Better visibility thanks to daylight effect
- More light allows to see farther and therefore react sooner.
 Signs, obstacles and hazards can be recognized sooner
- Reduced glaring thanks to an optimized light distribution
- 5-year guarantee²⁾
- More durability due to LED technology
- Simple plug & play installation and improved compatibility







OSRAM LEDriving® HL product range



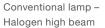






Product Reference			Product Number	V	W	K	COLOR			Q No.
9726CW	P43t	(H4)	4052899 605121	12/24	-	6000	Cool White	2	4	1 P.128
67210CW	PX26d	(H7)	4052899 605084	12/24	-	6000	Cool White	2	4	2 ^{P.128}
67211CW ³⁾	PGJ19-2	(H11)	4052899 605107	12/24	-	6000	Cool White	2	4	3 ^{P.128}
9736CW	P22d	(HB4)	4052899 605145	12/24	-	6000	Cool White	2	4	4 ^{P.128}





OSRAM LEDriving® HL - LED high beam



Conventional lamp -Halogen low beam

OSRAM LEDriving® HL - LED low beam

¹⁾ These products do not have ECE approval. This means they must not be used on public roads in any exterior application. Use on public roads leads to cancellation of operating license and loss of insurance coverage. Several countries do not allow sale and use of these products. Please contact your local distributor for information on the availability in your country.

²⁾ Refer to www.osram.com/am-guarantee for precise conditions

³⁾ LEDCBCTRL103 (P.98) avoids error messages on the board computer when using LED fog lights within 50 W applications



OSRAM LEDriving® FL LED fog lamp is maximum visibility

The latest generation of OSRAM LED fog lamps provides an even more convenient solution in order to replace and upgrade existing halogen fog lamps: With its ultra compact dimensions, the OSRAM LEDriving® FL provides optimized compatibility as well as easy plug & play installation. Upgrading with state-of-the-art LED technology and a color temperature of 6,000 K for a stylish cool white look as well as improved visibility. These LED products offer a perfect color match with xenon and LED headlights and are for conventional H8/H11/H16 or H10 fog lamps. A pair of new LEDriving® FL lamps, comes with a 3-year OSRAM guarantee¹) as well as with a long service life by less energy consumption.

Features¹⁾

- Cool White color temperature of 6,000 K
- Superior brightness
- Ultra compact LED replacement for conventional H8/ H11/H16 and H10 fog lamps as socket solution
- Premium OSRAM quality

Benefits¹⁾

- Better visibility in foggy situations with a perfect color match for xenon and LED headlights. Signs, obstacles and hazards can be recognized sooner.
- More light allows to see farther and therefore react sooner with reduced glaring thanks to an optimized light distribution
- Easy installation with optimized compatibility
- 3-year guarantee²⁾





OSRAM LEDriving® FL product range





Product Reference		Product Number	V	W	K	COLOR			S No.
67219CW	PGJ19 (H8/H11 ³⁾ /H16) 4052899 605046	12	13	6000	Cool White	2	4	6 ^{P.128}
9745CW	PY20d (H10)	4052899 605060	12	13	6000	Cool White	2	4	5 ^{P.128}



Conventional lamp -Halogen fog light

OSRAM LEDriving® FL – LED fog light

- 1) These products do not have ECE approval. This means they must not be used on public roads in any exterior application. Use on public roads leads to cancellation of operating license and loss of insurance coverage. Several countries do not allow sale and use of these products. Please contact your local distributor for information on the availability in your country.
- 2) Refer to www.osram.com/am-guarantee for precise conditions
- 3) LEDCBCTRL103 (P.98) avoids error messages on the board computer when using LED fog lights within 50 W applications

OSRAM LEDriving® RETROFITS Wide range of different bases

Perfect for a multitude of applications, OSRAM LEDriving® PREMIUM SL and LEDriving® SL illuminate vehicle exteriors with high color temperatures of up to 6,000 K. Thanks to their homogeneous light distribution, illumination is non-selective. OSRAM LED retrofits come with easy plug-and-play replacement, long life spans, low energy consumption – and 100% more style.



Features of LEDriving® PREMIUM SL¹⁾²⁾

- High color temperatures of up to 6,000 K
- Superior brightness
- Replaces conventional signal lamps for exterior application
- Premium OSRAM quality
- Long lifetime of up to 5,000 h, shockproof and vibration-proof with up to 80% less energy consumption³⁾





Benefits of LEDriving® PREMIUM SL¹⁾²⁾

- Wide range of different light colors for a variety of customization options
- Faster signals provide more reaction time for drivers behind you
- Smart electronics for easy installation
- 6-year guarantee⁴⁾
- More durability and very energy-efficient



Features of LEDriving® SL¹⁾²⁾

- High color temperatures of up to 6,000 K
- High brightness
- Replaces conventional signal lamps for exterior application
- OSRAM quality
- Long lifetime of up to 2,500 h with low energy consumption





Benefits of LEDriving® SL¹⁾²⁾

- Multiple light colors for a variety of customization options
- Non-selective illumination thanks to homogeneous light distribution
- Simple installation
- 4-year quarantee⁴⁾
- Durable and energy-efficient

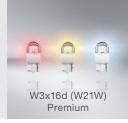
¹⁾ These products do not have ECE approval. This means they must not be used on public roads in any exterior application. Use on public roads leads to cancellation of operating license and loss of insurance coverage. Several countries do not allow sale and use of these products. Please contact your local distributor for information on the availability in your country.

²⁾ LEDCBCTRL101/102 (P.98) avoids error messages on the board computer when using LED retrofits within 5 W or 21 W applications

³⁾ Compared with conventional lamps | 4) Refer to www.osram.com/am-guarantee for precise conditions

OSRAM LEDriving® SL and LEDriving® PREMIUM SL range – EXTERIOR¹¹











Product	
Reference	

1557CW-02B

7905R-02B

7905YE-02B

7915CW-02B

7915R-02B

7915YE-02B

9213CW-02B

9213R-02B



BAY15d

W3x16d

W3x16d

W3x16q

W3x16q

W3x16q

W2.1x9.5d (W5W)

W2.1x9.5d (W5W)

(P21/5W)

(W21W)

(W21W)

(W21/5W)

(W21/5W)

(W21/5W)



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12

12

12

12

12

12

12

12



LEDriving® PREMIUM SL

2/0.4





6000



617-621

617-621

617-621

592

592

6000

6000

Red

Red

Red

Amber

Amber

Cool White

Cool White

Cool White



2 10

2

2

2

2 10

10

10

10

10

10

10





19^{P.128}

30^{P.128}

30^{P.128}

32^{P.128}

32^{P.128}

32^{P.128}

28^{P.128}

28^{P.128}

NEV

1557R-02B	BAY15d	(P21/5W)	Page 150	12	2/0.4	-	-	617-621	Red	2	10	19 ^{P.128}
1557YE-02B	BAY15d	(P21/5W)	Page 150	12	2/0.4	-	-	592	Amber	2	10	19 ^{P.128}
3557CW-02B	W2.5x16c	(P27/7W)	Page 150	12	1.42/0.54	-	6000	-	Cool White	2	10	23 ^{P.128}
3557R-02B	W2.5x16c	(P27/7W)	Page 150	12	1.42/0.54	-	-	617-621	Red	2	10	23 ^{P.128}
3557YE-02B	W2.5x16c	(P27/7W)	Page 150	12	1.42/0.54	-	-	592	Amber	2	10	23 ^{P.128}
5301CW	PG20-1	(PS19W)	4052899 605008	12	3	-	6000	-	Cool White	-	-	15 ^{P.128}
5828CW	PG18.5d-	1 (P13W)	4052899 604964	12	3	-	6000	-	Cool White	-	-	13 ^{P.128}
7556CW-02B	BA15s	(P21W)	Page 150	12	2	-	6000	-	Cool White	2	10	17 ^{P.128}
7556R-02B	BA15s	(P21W)	Page 150	12	2	-	-	617-621	Red	2	10	17 ^{P.128}
7556YE-02B	BA15s	(P21W)	Page 150	12	2	-	-	592	Amber	2	10	17 ^{P.128}
7557YE-02B	BAU15s	(PY21W)	Page 150	12	2	-	-	592	Amber	2	10	21 ^{P.128}
7905CW-02B	W3x16d	(W21W)	Page 150	12	3	-	6000	-	Cool White	2	10	30 ^{P.128}

1.5

1.5

1.5

1.5

3

2

3



				LED	riving® SL							
1458CW-02B	BAY15d	(P21/5W)	Page 150	12	2/0.4	-	6000	-	Cool White	2	10	20 ^{P.128}
1458R-02B	BAY15d	(P21/5W)	Page 150	12	2/0.4	-	-	617-621	Red	2	10	20 ^{P.128}
1457YE-02B	BAY15d	(P21/5W)	Page 150	12	2/0.4	-	-	592	Amber	2	10	20 ^{P.128}
3301CW	PG20-1	(PS19W)	4052899 605022	12	1.8	-	6000	-	Cool White	-	-	16 ^{P.128}
3828CW	PG18.5d-1	I (P13W)	4052899 604988	12	1.8	-	6000	-	Cool White	-	-	14 ^{P.128}
3548CW-02B	W2.5x16q	(P27/7W)	Page 151	12	1.7	-	6000	-	Cool White	2	10	24 ^{P.128}
3548R-02B	W2.5x16q	(P27/7W)	Page 151	12	1.7	-	-	617-621	Red	2	10	24 ^{P.128}
3548YE-02B	W2.5x16q	(P27/7W)	Page 151	12	1.9	-	-	592	Amber	2	10	24 ^{P.128}
7458CW-02B	BA15s	(P21W)	Page 151	12	1.4	-	6000	-	Cool White	2	10	18 ^{P.128}
7458R-02B	BA15s	(P21W)	Page 151	12	1.4	-	-	617-621	Red	2	10	18 ^{P.128}
7458YE-02B	BA15s	(P21W)	Page 151	12	1.3	-	-	592	Amber	2	10	18 ^{P.128}
7459YE-02B	BAU15s	(PY21W)	Page 151	12	1.3	-	-	592	Amber	2	10	22 ^{P.128}
7706CW-02B	W3x16d	(W21W)	Page 151	12	1.4	-	6000	-	Cool White	2	10	31 ^{P.128}
7706R-02B	W3x16d	(W21W)	Page 151	12	1.4	-	-	617-621	Red	2	10	31 ^{P.128}
7706YE-02B	W3x16d	(W21W)	Page 151	12	1.3	-	-	592	Amber	2	10	31 ^{P.128}
7716CW-02B	W3x16q	(W21/5W)	Page 151	12	1.7	-	6000	-	Cool White	2	10	33 ^{P.128}
7716R-02B	W3x16q	(W21/5W)	Page 151	12	1.7	-	-	617-621	Red	2	10	33 ^{P.128}
7716YE-02B	W3x16q	(W21/5W)	Page 151	12	1.9	-	-	592	Amber	2	10	33 ^{P.128}
9212CW-02B	W2.1x9.5d	I (W16W)	Page 151	12	1.8	-	6000	-	Cool White	2	10	29 ^{P.128}



Replace your conventional lamps with LED retrofit lamps. Visit www.osram.com/retrofit-exchange



OSRAM LEDriving® RETROFITS Wide range of different light colors

From dome light to foot area, from glove box to trunk, simply replace old lamps with OSRAM's plug-and-play LEDriving® PREMIUM SL RETROFITS to benefit from highly energy-efficient bright LED light in different color temperatures.



Features of LEDriving® PREMIUM SL¹⁾²⁾

- High color temperatures of up to 6,000 K
- Superior brightness
- Replaces conventional lamps for interior application
- Premium OSRAM quality
- Long lifetime of up to 5,000 h, shockproof and vibration-proof with up to 80% less energy consumption³⁾





Benefits of LEDriving® PREMIUM SL¹⁾²⁾

- Wide range of different light colors for a variety of customization options
- Non-selective illumination thanks to homogeneous light distribution
- Smart electronics for easy installation
- 6-year guarantee4)
- More durability and very energy-efficient



Features of LEDriving® SL¹¹²)

- High color temperatures of up to 6,000 K
- High brightness
- Replaces conventional lamps for interior application
- Premium OSRAM quality
- Lifetime of up to 2,500 h with low energy consumption





Benefits of LEDriving® SL¹⁾²⁾

- Multiple light colors for a variety of customization options
- Non-selective illumination thanks to homogeneous light distribution
- Simple plug & play LED replacement
- 4-year guarantee⁴⁾
- Durable and energy-efficient

OSRAM LEDriving® SL and LEDriving® PREMIUM SL range – INTERIOR¹)











Product	
Reference	;























				LEDri	ving® PREM	IUM SL						
2850WW-02B	W2.1x9.5d	(W5W)	Page 151	12	1	-	4000	-	Warm White	2	10	26 ^{P.128}
2850CW-02B	W2.1x9.5d	(W5W)	Page 151	12	1	-	6000	-	Cool White	2	10	26 ^{P.128}
2850BL-02B	W2.1x9.5d	(W5W)	Page 151	12	1	-	-	430-490	Blue	2	10	26 ^{P.128}
2855YE-02B	W2.1x9.5d	(WY5W)	Page 151	12	1	-	-	592	Amber	2	10	26 ^{P.128}
3850WW-02B	BA9s	(T4W)	Page 151	12	1	-	4000	-	Warm White	2	10	25 ^{P.128}
3850CW-02B	BA9s	(T4W)	Page 151	12	1	-	6000	-	Cool White	2	10	25 ^{P.128}
6497WW-01B	SV8.5-8	(C5W)	Page 151	12	1	31	4000	-	Warm White	1	5	7 ^{P.128}
6497CW-01B	SV8.5-8	(C5W)	Page 151	12	1	31	6000	-	Cool White	1	5	7 ^{P.128}
6498WW-01B	SV8.5-8	(C5W)	Page 151	12	1	36	4000	-	Warm White	1	5	8 ^{P.128}
6498CW-01B	SV8.5-8	(C5W)	Page 151	12	1	36	6000	-	Cool White	1	5	8 ^{P.128}
6499WW-01B	SV8.5-8	(C5W)	Page 151	12	1	41	4000	-	Warm White	1	5	9 ^{P.128}
6499CW-01B	SV8.5-8	(C5W)	Page 151	12	1	41	6000	-	Cool White	1	5	9 ^{P.128}

				L	.EDriving® S	L						
2880BL-02B	W2.1x9.5d	(W5W)	Page 151	12	1	-	-	460-485	Blue	2	10	27 ^{P.128}
2880CW-02B	W2.1x9.5d	(W5W)	Page 151	12	1	-	6000	-	Cool White	2	10	27 ^{P.128}
2880YE-02B	W2.1x9.5d	(WY5W)	Page 151	12	1	-	-	592	Amber	2	10	27 ^{P.128}
2880R-02B	W2.1x9.5d	(W5W)	Page 151	12	1	-	-	617-621	Red	2	10	27 ^{P.128}
2880GR-02B	W2.1x9.5d	(W5W)	Page 151	12	1	-	-	617-621	Green	2	10	27 ^{P.128}
6431CW-01B	SV8.5-8	(C5W)	Page 151	12	0.5	31	6000	-	Cool White	1	5	10 ^{P.128}
6431BL-01B	SV8.5-8	(C5W)	Page 151	12	0.5	31	-	460-485	Blue	1	5	10 ^{P.128}
6436CW-01B	SV8.5-8	(C5W)	Page 151	12	0.5	36	6000	-	Cool White	1	5	11 ^{P.128}
6436BL-01B	SV8.5-8	(C5W)	Page 151	12	0.5	36	-	460-485	Blue	1	5	11 ^{P.128}
6441CW-01B	SV8.5-8	(C5W)	Page 151	12	0.5	41	6000	-	Cool White	1	5	12 ^{P.128}
6441BL-01B	SV8.5-8	(C5W)	Page 151	12	0.5	41	-	460-485	Blue	1	5	12 ^{P.128}



Replace your conventional lamps with LED retrofit lamps. Visit www.osram.com/retrofit-exchange

¹⁾ These products do not have ECE approval. This means they must not be used on public roads in any exterior application. Use on public roads leads to cancellation of operating license and loss of insurance coverage. Several countries do not allow sale and use of these products. Please contact your local distributor for information on the availability in your country.

²⁾ LEDCBCTRL101/102 (P.98) avoids error messages on the board computer when using LED retrofits within 5 W or 21 W applications

³⁾ Compared with conventional lamps

⁴⁾ Refer to www.osram.com/am-guarantee for precise conditions

OSRAM LEDriving® PREMIUM SL (24 V) Plug-and-play for bright truck interior

Simply replace old lamps with OSRAM's plug-and-play LEDriving® PREMIUM SL RETROFITS to benefit from highly energy-efficient bright LED light in the truck's cabin. Available in cool and warm white LED light for dome, foot area, glove box and reading light.



Features1)2)

- High color temperatures of up to 6,000 K
- Superior brightness
- Replaces conventional lamps with 24 V for interior application
- Premium OSRAM quality
- Long lifetime of up to 5,000 h, shockproof and vibration-proof with up to 80% less energy consumption³⁾

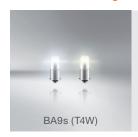
Benefits1)2)

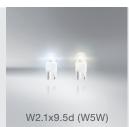
- Available in Cool White and Warm White
- Non-selective illumination thanks to homogeneous light distribution
- Smart electronics for easy installation
- 6-year guarantee⁴⁾
- More durability and very energy-efficient





OSRAM LEDriving® PREMIUM SL Truck (24 V) range





Product	Product V W	$\frac{1}{[nm]}$ K λ	COLOR NO.
Reference	Number	[mm] K [nm]	COLOR No.

	LEDriving® PREMIUM SL (24V)											
2824WW-02B	W2.1x9.5d (W5W)	Page 150	24	1	-	4000	-	Warm White 2	10	26 ^{P.128}		
2824CW-02B	W2.1x9.5d (W5W)	Page 150	24	1	-	6000	-	Cool White 2	10	79 ^{P.128}		
3924WW-02B	BA9s (T4W)	Page 150	24	1	-	4000	-	Warm White 2	10	25 ^{P.128}		
3924CW-02B	BA9s (T4W)	Page 150	24	1	-	6000	-	Cool White 2	10	25 ^{P.128}		



Replace your conventional lamps with LED retrofit lamps. Visit www.osram.com/retrofit-exchange

¹⁾ These products do not have ECE approval. This means they must not be used on public roads in any exterior application. Use on public roads leads to cancellation of operating license and loss of insurance coverage. Several countries do not allow sale and use of these products. Please contact your local distributor for information on the availability in your country.

²⁾ LEDCBCTRL101/102 (P.98) avoids error messages on the board computer when using LED retrofits within 5 W or 21 W applications

³⁾ Compared with conventional lamps

⁴⁾ Refer to www.osram.com/am-guarantee for precise conditions





OSRAM Trust Program Verify original OSRAM xenon lamps

OSRAM strives to deliver premium-quality products – a fact that has garnered the attention of manufacturers who flood the market with fakes. This is not just an economic issue, but one that puts customer safety at stake. The OSRAM Trust Program helps customers to verify OSRAM original xenon products.

Why trusting OSRAM is always the right thing to do

There are already a certain number of fake lamps circulating, many of which claim to be OSRAM XENARC® lamps. Some of those fakes are easy to spot. But some are so cleverly faked, even the eye of a professional can't spot the difference.

That's why we have implemented a 2-step security process. It's easy to use and guaranteed to get you results within seconds.

OSRAM XENARC® lamps

- XENARC® NIGHT BREAKER® LASER
- XENARC® COOL BLUE® INTENSE
- XENARC® COOL BLUE® BOOST
- XENARC® ULTRA LIFE
- XENARC® ORIGINAL



Safety features

One part of the OSRAM Trust Program is to implement two safety features into the manufacturing process. Starting with OSRAM XENARC® products, you can verify your lamps using the following two safety features:



Packaging label code

Every original OSRAM xenon packaging has a unique 7-digit label code **a** attached, the last 3 digits of which can be seen as a hologram in the lower right corner **b**. Next you'll find a security strip with microtext which is legible with a magnifying glass **c**. Finally, there's an OSRAM logo, the URL www.osram.com/trust and a QR code leading to our OSRAM Trust Program website.

Unique lamp data on each lamp

Each safety label is assigned to exactly one lamp during the manufacturing process. You can find the unique lamp data on the base of your lamp.



Online check tool

This is part 2 of the OSRAM Trust Program. We strongly encourage you to try these next steps two or three times in a row – it's fast and simple:



www.osram.com/trust



1 Enter 7-digit label code

When at osram.com/trust, select the tab "Verify your product", then enter the 7-digit label code from the packaging. If you're scanning a QR code right from the packaging, the 7-digit label code is already being auto-filled.

2 Verify lamp data

After your 7-digit label code has been verified, you will be asked to check whether the automatically prompted lamp data matches the data which is displayed on the base of your lamp.

OSRAM XENARC® NIGHT BREAKER® LASER Brightest OSRAM xenon light

With up to 200% more brightness on the road compared to the minimum legal standard, these exceptionally bright headlight lamps offer up to 20% whiter xenon light¹⁾ and a beam length of up to 250 m.



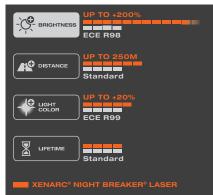
Features

- Up to 200% more brightness¹⁾
- Up to 250 m long beam
- Up to 20% whiter light¹⁾
- Optimized light distribution for higher performance

Benefits

- More light allows to see farther and therefore react sooner
- Better visibility
- Close to laser look
- Signs, obstacles and hazards can be recognized sooner







OSRAM XENARC® NIGHT BREAKER® LASER product range

Product Reference	ECE	Product Number	V	W		lm	K			Q No.
66140XNL ²⁾³⁾	D1S ⁴⁾	4052899 992870	85	35	PK32d-2	32005)	4500	1	4	1 P.132
66140XNL-HCB ²⁾³⁾	D1S ⁴⁾	Page 147	85	35	PK32d-2	3200 ⁵⁾	4500	2	10	1 ^{P.132}
66240XNL ²⁾³⁾	D2S4)	4052899 993259	85	35	P32d-2	3200 ⁵⁾	4500	1	4	3 ^{P.132}
66240XNL-HCB ²⁾³⁾	D2S4)	Page 147	85	35	P32d-2	32005)	4500	2	10	3 ^{P.132}
66340XNL ²⁾³⁾	D3S ⁴⁾	4052899 992979	42	35	PK32d-5	32005)	4400	1	4	1 P.132
66340XNL-HCB ²⁾³⁾	D3S ⁴⁾	Page 147	42	35	PK32d-5	3200 ⁵⁾	4400	2	10	1 P.132
66440XNL ²⁾³⁾	D4S4)	4052899 992993	42	35	P32d-5	3200 ⁵⁾	4400	1	4	3 ^{P.132}
66440XNL-HCB ²⁾³⁾	D4S4)	Page 147	42	35	P32d-5	32005)	4400	2	10	3 ^{P.132}

¹⁾ Compared to minimum ECE R98/R99 requirements

²⁾ To be operated only with approved electronic control gear

³⁾ XENARC $^{\circ}$ lamps should be replaced by a qualified mechanic

⁴⁾ Reduced UV emission | For projection headlights | ECE approval and DOT label

⁵⁾ $\pm 450 \, \text{Im}$

OSRAM XENARC® COOL BLUE® INTENSE

Extra-blue xenon light

Exceptionally bright, high contrast and brilliantly blue with up to 6,000 K: The high-tech xenon light comes with a highly efficient technology, brilliant effect and no-compromise design.

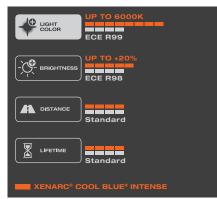


Features

- Extra blue light¹⁾
- Color temperatures of up to 6,000 K
- Up to 20% more brightness²⁾

- Modern look on the road
- High contrast
- More light allows to see farther and therefore react sooner







OSRAM XENARC® COOL BLUE® INTENSE product range

Product Reference	ECE	Product Number	V	W		lm	K			Q No.
66140CBI ³⁾⁴⁾	D1S ⁵⁾	4052899 220720	85	35	PK32d-2	32007)	60008)	1	4	1 P.132
66140CBI-HCB ³⁾⁴⁾	D1S ⁵⁾	Page 147	85	35	PK32d-2	3200 ⁷⁾	6000 ⁸⁾	2	10	1 ^{P.132}
66150CBI ³⁾⁴⁾	D1R ⁶⁾	4052899 339903	85	35	PK32d-3	2800 ⁷⁾	6000 ⁸⁾	1	4	2 ^{P.132}
66240CBI ³⁾⁴⁾	D2S ⁵⁾	4008321 401359	85	35	P32d-2	3200 ⁷⁾	6000 ⁸⁾	1	4	3 ^{P.132}
66240CBI-HCB ^{3) 4)}	D2S ⁵⁾	Page 147	85	35	P32d-2	3200 ⁷⁾	6000 ⁸⁾	2	10	3 ^{P.132}
66250CBI ³⁾⁴⁾	D2R ⁶⁾	4008321 401533	85	35	P32d-3	2800 ⁷⁾	6000 ⁸⁾	1	4	4 ^{P.132}
66340CBI ³⁾⁴⁾	D3S ⁵⁾	4052899 148710	42	35	PK32d-5	3200 ⁷⁾	6000 ⁸⁾	1	4	1 ^{P.132}
66340CBI-HCB ³⁾⁴⁾	D3S ⁵⁾	Page 147	42	35	PK32d-5	3200 ⁷⁾	6000 ⁸⁾	2	10	1 P.132
66440CBI ³⁾⁴⁾	D4S ⁵⁾	4052899 125582	42	35	P32d-5	3200 ⁷⁾	6000 ⁸⁾	1	4	3 ^{P.132}
66440CBI-HCB ³⁾⁴⁾	D4S ⁵⁾	Page 147	42	35	P32d-5	3200 ⁷⁾	6000 ⁸⁾	2	10	3 ^{P.132}

¹⁾ From a special filling system instead of conventional coating

²⁾ Compared to minimum ECE R98 requirements

³⁾ To be operated only with approved electronic control gear

⁴⁾ XENARC® lamps should be replaced by a qualified mechanic

⁵⁾ Reduced UV emission | For projection headlights | ECE approval and DOT label

⁶⁾ Reduced UV emission | With anti-glare strip for reflection headlights | ECE approval and DOT label

^{7) ± 450} lm

⁸⁾ Up to

OSRAM XENARC® ULTRA LIFE Superior life and 10-year guarantee

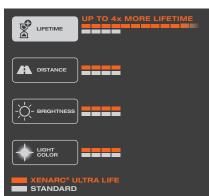
For additional reliability: With up to four times the lifespan of a standard lamp, XENARC® ULTRA LIFE headlight lamps come with a 10-year guarantee¹⁾.



Features

- 10-year guarantee¹⁾
- Up to 4 times longer lifetime²⁾
- Up to 300,000 km service life³⁾
- More durability

- Additional comfort due to reliable quality
- Saves time due to less workshop visits
- Additional reliability
- Longer replacement cycles





OSRAM XENARC® ULTRA LIFE product range

Product Reference	ECE	Product Number	V	W		lm	K			Q No.
66140ULT ^{4) 5)}	D1S ⁶⁾	4052899 425514	85	35	PK32d-2	32007)	4300	1	4	1 P.132
66140ULT-HCB ⁴⁾⁵⁾	D1S ⁶⁾	Page 147	85	35	PK32d-2	3200 ⁷⁾	4300	2	10	1 P.132
66240ULT ⁴⁾⁵⁾	D2S ⁶⁾	4052899 425576	85	35	P32d-2	3200 ⁷⁾	4300	1	4	3 ^{P.132}
66240ULT-HCB ⁴⁾⁵⁾	D2S ⁶⁾	Page 147	85	35	P32d-2	3200 ⁷⁾	4300	2	10	3 ^{P.132}
66340ULT ⁴⁾⁵⁾	D3S ⁶⁾	4052899 425606	42	35	PK32d-5	3200 ⁷⁾	4300	1	4	1 P.132
66340ULT-HCB ⁴⁾⁵⁾	D3S ⁶⁾	Page 148	42	35	PK32d-5	3200 ⁷⁾	4300	2	10	1 P.132
66440ULT ⁴⁾⁵⁾	D4S ⁶⁾	4052899 425637	42	35	P32d-5	3200 ⁷⁾	4300	1	4	3 ^{P.132}
66440ULT-HCB ⁴⁾⁵⁾	D4S ⁶⁾	Page 148	42	35	P32d-5	32007)	4300	2	10	3 ^{P.132}

¹⁾ With online product registration. Refer to www.osram.com/am-guarantee for precise conditions and registration

²⁾ Compared to standard xenon lamps

³⁾ With an average annual mileage of 14,259 km and 60% light on

⁴⁾ To be operated only with approved electronic control gear

⁵⁾ XENARC® lamps should be replaced by a qualified mechanic

⁶⁾ Reduced UV emission | For projection headlights | ECE approval and DOT label

 $^{7) \}pm 450 \text{ Im}$

OSRAM XENARC® ORIGINAL

4-year guarantee

XENARC® ORIGINAL lamps impress with a wide product range and the reliable OEM quality. Successfully used in millions of new automobiles from renowned manufacturers, whether as standard initial equipment or original spare parts.



Features

- 4-year guarantee¹⁾
- OEM Quality
- Original spare parts that exceed all ECE minimum standards
- Wide product range

- Additional comfort due to reliable quality
- Tried and trusted in millions of vehicles of well-known manufacturers
- Premium quality made in Germany
- Suitable for many xenon headlights



OSRAM XENARC® ORIGINAL product range

Product	ECE	Product	V	W		Luca	K		a	
Reference	EGE	Number	V	VV		lm	K			No.
66140 ²⁾³⁾	D1S ⁴⁾	4008321 184276	85	35	PK32d-2	3200 ⁶⁾	4300	1	4	1 ^{P.132}
66140-1SCB ²⁾³⁾	D1S ⁴⁾	4052899 600423	85	35	PK32d-2	3200 ⁶⁾	4300	1	4	1 P.132
66150 ²⁾³⁾	D1R ⁵⁾	4052899 339828	85	35	PK32d-3	2800 ⁶⁾	4300	1	4	2 ^{P.132}
662402)3)	D2S4)	4008321 184573	85	35	P32d-2	3200 ⁶⁾	4300	1	4	3 ^{P.132}
66240-1SCB ²⁾³⁾	D2S4)	4052899 600447	85	35	P32d-2	3200 ⁶⁾	4300	1	4	3 ^{P.132}
66250 ²⁾³⁾	D2R ⁵⁾	4008321 184634	85	35	P32d-3	2800 ⁶⁾	4300	1	4	4 ^{P.132}
66340 ²⁾³⁾	D3S ⁴⁾	4052899 199569	42	35	PK32d-5	3200 ⁶⁾	4300	1	4	1 P.132
66340-1SCB ²⁾³⁾	D3S4)	4052899 600485	42	35	PK32d-5	3200 ⁶⁾	4300	1	4	1 P.132
66350 ²⁾³⁾	D3R ⁵⁾	4008321 129857	42	35	PK32d-6	2800 ⁶⁾	4300	1	4	2 ^{P.132}
66440 ²⁾³⁾	D4S4)	4008321 349392	42	35	P32d-5	3200 ⁶⁾	4300	1	4	3 ^{P.132}
66440-1SCB ²⁾³⁾	D4S4)	4052899 600508	42	35	P32d-5	3200 ⁶⁾	4300	1	4	3 ^{P.132}
66450 ²⁾³⁾	D4R ⁵⁾	4008321 349576	42	35	P32d-6	2800 ⁶⁾	4300	1	4	4 ^{P.132}
665482)3)	D8S4)	4008321 787019	42	25	PK32d-1	20007)	4500	1	4	2 ^{P.132}



A perfectly matched OSRAM system solution with ballast, terminal and connecting cables is available for all XENARC® D1S/R, D3S/R and D8S lamps. Please consult your OSRAM contact if required.

¹⁾ Refer to www.osram.com/guarantee for precise conditions

²⁾ To be operated only with approved electronic control gear

³⁾ XENARC® lamps should be replaced by a qualified mechanic

⁴⁾ Reduced UV emission | For projection headlights | ECE approval and DOT label

⁵⁾ Reduced UV emission | With anti-glare strip for projection headlights | ECE approval and DOT label

^{6) ± 450} lm

 $^{7) \}pm 300 \text{ Im}$



Halogen lamps for cars – the most popular classic light, for good reason

Long life or high performance, optimized illumination, best quality, convincing price-performance ratio – for these excellent reasons, OSRAM halogen solutions are the best-selling classics among headlight lamps. From original, performance, design, and comfort products, each customer can choose the exact lamp which best fits their personal needs – whether it is an original spare part or a value-added product.



OSRAM NIGHT BREAKER® LASER Brightest OSRAM halogen light

Outshining all other OSRAM halogen lamps: Innovative laser ablation technology makes the NIGHT BREAKER® LASER up to 150% brighter than the minimum legal standard.

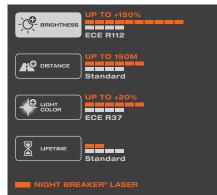


Features

- Up to 150% more brightness¹⁾
- Up to 150 m long beam
- Up to 20% whiter light¹⁾
- More light performance due to innovative laser ablation technology²⁾
- Unique design with laser-etched product name²⁾

- More light allows to see farther and therefore react sooner
- Better visibility
- Modern look
- Signs, obstacles and hazards can be recognized sooner







OSRAM NIGHT BREAKER® LASER product range

Product Reference	ECE	Product Number	V	W				No.
64150NL	H1	4052899 991309	12	55	P14.5s	1	100	5 ^{P.132}
64150NL-01B	H1	Page 148	12	55	P14.5s	1	10	5 ^{P.132}
64150NL-HCB	H1	Page 148	12	55	P14.5s	2	20	5 ^{P.132}
64151NL	НЗ	4052899 991330	12	55	PK22s	1	100	7 ^{P.132}
64151NL-HCB	НЗ	Page 148	12	55	PK22s	1	10	7 ^{P.132}
64193NL	H4	4052899 991361	12	60/55	P43t	1	100	8 ^{P.132}
64193NL-01B	H4	Page 148	12	60/55	P43t	1	10	8 ^{P.132}
64193NL-HCB	H4	Page 148	12	60/55	P43t	2	20	8 ^{P.132}
64210NL	H7	4052899 991392	12	55	PX26d	1	100	9 ^{P.132}
64210NL-01B	H7	Page 148	12	55	PX26d	1	10	9 ^{P.132}
64210NL-HCB	H7	Page 148	12	55	PX26d	2	20	9 ^{P.132}
64212NL	Н8	4052899 998827	12	35	PGJ19-1	1	100	10 ^{P.132}
64212NL-HCB	Н8	Page 148	12	35	PGJ19-1	2	20	10 ^{P.132}
64211NL	H11	4052899 991422	12	55	PGJ19-2	1	100	15 ^{P.132}
64211NL-01B	H11	Page 148	12	55	PGJ19-2	1	10	15 ^{P.132}
64211NL-HCB	H11	Page 148	12	55	PGJ19-2	2	20	15 ^{P.132}
9005NL	HB3	4052899 998858	12	60	P20d	1	100	23 ^{P.132}
9005NL-HCB	HB3	Page 148	12	60	P20d	2	20	23 ^{P.132}
9006NL	HB4	4052899 998889	12	51	P22d	1	100	25 ^{P.132}
9006NL-HCB	HB4	Page 148	12	51	P22d	2	20	25 ^{P.132}

¹⁾ Compared to minimum ECE R112/R37 requirements

²⁾ H4/H7/H8/H11/HB3/HB4

OSRAM NIGHT BREAKER® SILVER Excellent performance-lifetime ratio

With up to 100% more brightness compared to the minimum legal standard, an excellent choice for motorists with high demands for performance and lifetime.



Features

- Up to 100% more brightness¹⁾
- Up to 130 m long beam
- Excellent performance-lifetime ratio

- More light allows to see farther and therefore react sooner
- Better visibility
- More light at a reasonable lifetime







OSRAM NIGHT BREAKER® SILVER product range

Product Reference	ECE	Product Number	V	W			4	No.
64150NBS	H1	4052899 992573	12	55	P14.5s	1	100	5 ^{P.132}
64150NBS-01B	H1	Page 148	12	55	P14.5s	1	10	5 ^{P.132}
64150NBS-HCB	H1	Page 148	12	55	P14.5s	2	20	5 ^{P.132}
64193NBS	H4	4052899 992603	12	60/55	P43t	1	100	8 ^{P.132}
64193NBS-01B	H4	Page 148	12	60/55	P43t	1	10	8 ^{P.132}
64193NBS-HCB	H4	Page 148	12	60/55	P43t	2	20	8 ^{P.132}
64210NBS	H7	4052899 992634	12	55	PX26d	1	100	9 ^{P.132}
64210NBS-01B	H7	Page 148	12	55	PX26d	1	10	9 ^{P.132}
64210NBS-HCB	H7	Page 148	12	55	PX26d	2	20	9 ^{P.132}
64211NBS	H11	4052899 992665	12	55	PGJ19-2	1	100	15 ^{P.132}
64211NBS-HCB	H11	Page 148	12	55	PGJ19-2	2	20	15 ^{P.132}

¹⁾ Compared to minimum ECE R112 requirements

OSRAM COOL BLUE® INTENSE Bluish-white light for xenon look

Stylish xenon look for your drive: High-tech halogen lamp, almost in the league of xenon lamps with their powerful bluish-white light.

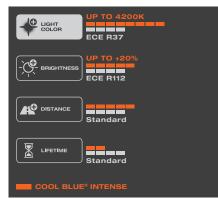


Features

- Bluish-white light for xenon look
- Color temperatures of up to 4,200 K
- Up to 20% more brightness¹⁾
- Modern design with silver cap²⁾

- Modern and stylish look
- High contrast
- More light allows to see farther and therefore react sooner
- Ideal for use in clear-glass headlights







OSRAM COOL BLUE® INTENSE product range

Product Reference	ECE	Product Number	٧	W				No.
64150CBI	H1	4008321 655325	12	55	P14.5s	1	100	5 ^{P.132}
64150CBI-01B	H1	Page 148	12	55	P14.5s	1	10	5 ^{P.132}
64150CBI-HCB	H1	Page 148	12	55	P14.5s	2	20	5 ^{P.132}
64151CBI	НЗ	4008321 655462	12	55	PK22s	1	100	7 ^{P.132}
64193CBI	H4	4008321 650894	12	60/55	P43t	1	100	8 ^{P.132}
64193CBI-01B	H4	Page 148	12	60/55	P43t	1	10	8 ^{P.132}
64193CBI-HCB	H4	Page 148	12	60/55	P43t	2	20	8 ^{P.132}
64210CBI	H7	4008321 651341	12	55	PX26d	1	100	9 ^{P.132}
64210CBI-01B	H7	Page 148	12	55	PX26d	1	10	9 ^{P.132}
64210CBI-HCB	H7	Page 148	12	55	PX26d	2	20	9 ^{P.132}
64212CBI-HCB	H8	Page 148	12	35	PGJ19-1	2	20	10 ^{P.132}
64211CBI	H11	4052899 433175	12	55	PGJ19-2	1	100	15 ^{P.132}
64211CBI-HCB	H11	Page 148	12	55	PGJ19-2	2	20	15 ^{P.132}
64176CBI	H15	4052899 932708	12	55/15	PGJ23t-1	1	100	18 ^{P.132}
64176CBI-HCB	H15	Page 148	12	55/15	PGJ23t-1	2	20	18 ^{P.132}
64219CBI	H16	4052899 268326	12	19	PGJ19-3	1	100	19 ^{P.132}
64219CBI-HCB	H16	Page 148	12	19	PGJ19-3	2	20	19 ^{P.132}
880CBI	H27W/1	4052899 479999	12	27	PG13	1	100	32 ^{P.132}
881CBI	H27W/2	4052899 480025	12	27	PGJ13	1	100	32 ^{P.132}
9005CBI-HCB	HB3	Page 148	12	60	P20d	2	20	23 ^{P.132}
9006CBI-HCB	HB4	Page 148	12	51	P22d	2	20	25 ^{P.132}
9012CBI	HIR2	4052899 455405	12	55	PX22d	1	100	29 ^{P.132}
2825HCBI	W5W	4008321 650849	12	5	W2.1x9.5d	10	50	52 ^{P.133}
2825HCBI-02B	W5W	Page 148	12	5	W2.1x9.5d	2	20	52 ^{P.133}

¹⁾ Compared to minimum ECE R112 requirements

²⁾ H4, H7, H11, H27W/1, H27W/2, HB4



OSRAM DIADEM® CHROME and DIADEM®

Only amber or red during operation

Visual tuning for indicator and tail lamps: The signal lights only emit amber or red light during operation – making them the perfect, attractive light supplement for halogen and xenon headlamps.

Features of DIADEM® CHROME

- Chrome design
- Only amber when ON
- No irritating color effects
- Cutting edge interference and absorber coating

Benefits of DIADEM® CHROME

- Attractive light supplement for halogen and xenon headlamps
- Almost invisible when not operating
- Ideal for all indicator lights with clear covers
- Exclusive chrome look

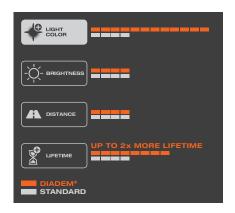
Features of DIADEM®

- Opal design
- Only red when ON
- Up to double the service life¹⁾
- State-of-the-art interference coating

Benefits of DIADEM®

- Attractive light supplement for halogen and xenon headlamps
- Almost invisible when not operating
- Additional reliability
- Opal look











OSRAM DIADEM® CHROME product range

Product Reference	ECE	Product Number	V	W				No.
2827DC-02B ²⁾	WY5W	Page 148	12	5	W2.1x9.5d	2	20	52 ^{P.133}
7507DC-02B ²⁾	PY21W	Page 148	12	21	BAU15s	2	20	38 ^{P.132}

OSRAM DIADEM® product range

Product Reference	ECE	Product Number	V	W				Q No.
7508LDR-01B ³⁾	PR21W	Page 148	12	21	BAW15s	1	10	43 ^{P.132}
7538LDR-01B ³⁾	PR21/5W	Page 148	12	21/5	BAW15d	1	10	44 ^{P.132}

¹⁾ Compared with standard lamps

²⁾ Amber lamps for clear indicator lights

³⁾ Red light for clear tail/brake lights

OSRAM ULTRA LIFE

Longer life and 4-year guarantee

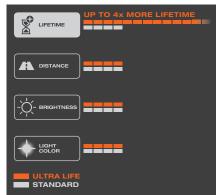
The ULTRA LIFE product family provides more reliability and durability. The lamps last up to four times longer compared with standard lamps and have a rock-solid guarantee of four years with online registration.



Features

- 4-year guarantee¹⁾
- Up to 4 times longer lifetime²⁾
- Up to 100,000 km service life³⁾
- More durability
- Modern design with silver cap (H4/H7/H11)

- Additional comfort due to reliable quality
- Saves time due to less workshop visits
- Additional reliability
- Longer replacement cycles
- Ideal for use in clear-glass headlights







OSRAM ULTRA LIFE product range

Product Reference	ECE	Product Number	V	W				No.
64150ULT	H1	4008321 416209	12	55	P14.5s	1	100	5 ^{P.132}
64150ULT-01B	H1	Page 148	12	55	P14.5s	1	10	5 ^{P.132}
64150ULT-HCB	H1	Page 148	12	55	P14.5s	2	20	5 ^{P.132}
64193ULT	H4	4008321 416230	12	60/55	P43t	1	100	8 ^{P.132}
64193ULT-01B	H4	Page 148	12	60/55	P43t	1	10	8 ^{P.132}
64193ULT-HCB	H4	Page 148	12	60/55	P43t	2	20	8 ^{P.132}
64210ULT	H7	4008321 416261	12	55	PX26d	1	100	9 ^{P.132}
64210ULT-01B	H7	Page 148	12	55	PX26d	1	10	9 ^{P.132}
64210ULT-HCB	H7	Page 148	12	55	PX26d	2	20	9 ^{P.132}
64211ULT	H11	4052899 431164	12	55	PGJ19-2	1	100	15 ^{P.132}
64211ULT-01B	H11	Page 148	12	55	PGJ19-2	1	10	15 ^{P.132}
64211ULT-HCB	H11	Page 148	12	55	PGJ19-2	2	20	15 ^{P.132}
7506ULT	P21W	4008321 415349	12	21	BA15s	10	50	38 ^{P.132}
7506ULT-02B	P21W	Page 148	12	21	BA15s	2	20	38 ^{P.132}
7507ULT ⁴⁾	PY21W	4008321 413147	12	21	BAU15s	10	50	38 ^{P.132}
7507ULT-02B ⁴⁾	PY21W	Page 148	12	21	BAU15s	2	20	38 ^{P.132}
7528ULT	P21/5W	4008321 413116	12	21/5	BAY15d	10	50	39 ^{P.132}
7528ULT-02B	P21/5W	Page 148	12	21/5	BAY15d	2	20	39 ^{P.132}
2825ULT	W5W	4008321 413024	12	5	W2.1x9.5d	10	50	52 ^{P.133}
2825ULT-02B	W5W	Page 148	12	5	W2.1x9.5d	2	20	52 ^{P.133}
5007ULT	R5W	4008321 415370	12	5	BA15s	10	50	48 ^{P.133}
5007ULT-02B	R5W	Page 148	12	5	BA15s	2	20	48 ^{P.133}
5008ULT	R10W	4008321 415400	12	10	BA15s	10	50	48 ^{P.133}
5008ULT-02B	R10W	Page 148	12	10	BA15s	2	20	48 ^{P.133}
6418ULT	C5W	4008321 413086	12	5	SV8.5-8	10	50	36 ^{P.132}
6418ULT-02B	C5W	Page 149	12	5	SV8.5-8	2	20	36 ^{P.132}
64132ULT	H6W	4008321 413178	12	6	BAX9s	10	50	37 ^{P.132}
64132ULT-02B	H6W	Page 149	12	6	BAX9s	2	20	37 ^{P.132}
64137ULT ⁴⁾	HY21W	4052899 910256	12	21	BAW9s	10	50	35 ^{P.132}

^{1) 4}th year with online product registration. Refer to www.osram.com/am-guarantee for precise conditions and registration

²⁾ Compared with standard lamps

³⁾ With an average annual mileage of 14,259 km and 60% light on

⁴⁾ Amber lamps for clear indicator lights

OSRAM ORIGINAL LINE 12 V Original spare part

Convincing performance for standard requirements, robust and cost-effective: Successfully used in millions of new cars from renowned manufacturers, whether as standard initial equipment or original spare parts.



Features

- OEM Quality
- Original spare parts that exceed all ECE minimum standards
- Wide product range

Benefits

- Tried and trusted in millions of vehicles of well-known manufacturers
- Premium quality made in Germany
- Suitable for the most common applications

OSRAM history

In 1925, OSRAM showcased the world a simple, yet ingenious solution – a lamp with two filaments, one for dipped beam and one for high beam. The BILUX® lamp was born and specifically registered to OSRAM. This enabled all the functions, which previously took up a lot of space and required complex mechanical designs, to be combined in one single light source. The lamp produced two beams with different strengths and angles in one single reflector.

Headlight manufacturers reacted quickly, and this technology became the typical light in all conventional vehicles in the 60s and even the 70s. It's still available today in its original form. The first generation of the OSRAM BILUX® lamps generally had a **P45t base** and an electrical output of **40/45 watts**.



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

Product Reference	ECE	Product Number	V	W				No.
64150	H1	4050300 001487	12	55	P14.5s	1	100	5 ^{P.132}
64150-01B	H1	Page 149	12	55	P14.5s	1	10	5 ^{P.132}
64173	H2	4050300 016559	12	55	X511	1	100	6 ^{P.132}
64151	НЗ	4050300 001494	12	55	PK22s	1	100	7 ^{P.132}
64151-01B	Н3	Page 149	12	55	PK22s	1	10	7 ^{P.132}
64193	H4	4050300 001470	12	60/55	P43t	1	100	8 ^{P.132}
64193-01B	H4	Page 149	12	60/55	P43t	1	10	8 ^{P.132}
64210	H7	4050300 332185	12	55	PX26d	1	100	9 ^{P.132}
64210-01B	H7	Page 149	12	55	PX26d	1	10	9 ^{P.132}
64212	H8	4050300 498751	12	35	PGJ19-1	1	100	10 ^{P.132}
64212-01B	H8	Page 149	12	35	PGJ19-1	1	10	10 ^{P.132}
642421)	H8B	4008321 055422	12	35	PGJY19-1	1	100	11P.132
64213	H9	4050300 524368	12	65	PGJ19-5	1	100	12 ^{P.132}
642431)	H9B	4008321 055477	12	65	PGJY19-5	1	100	13 ^{P.132}
9145	H10	4052899 348622	12	42	PY20d	1	100	14 ^{P.132}
64211	H11	4050300 524313	12	55	PGJ19-2	1	100	15 ^{P.132}
64211-01B	H11	Page 149	12	55	PGJ19-2	1	10	15 ^{P.132}
64241 ¹⁾	H11B	4008321 054654	12	55	PGJY19-2	1	100	16 ^{P.132}
9008	H13	4008321 939401	12	60/55	P26.4t	1	10	17 ^{P.132}
64176	H15	4008321 218391	12	55/15	PGJ23t-1	1	100	18 ^{P.132}
64219L+	H16	4008321 626783	12	19	PGJ19-3	1	100	19 ^{P.132}
64180L	H18	4052899479968	12	55	PY26d-1	1	100	20 ^{P.132}
64181L	H19	4052899599017	12	60/55	PU43t-3	1	100	21 ^{P.132}
880	H27W/1	4008321 542977	12	27	PG13	1	100	32 ^{P.132}
881	H27W/2	4008321 543004	12	27	PGJ13	1	100	32 ^{P.132}
9005	HB3	4050300 137193	12	60	P20d	1	100	23 ^{P.132}
9005-01B	HB3	Page 149	12	60	P20d	1	10	23 ^{P.132}
9005XS	НВ3А	4052899 982567	12	60	P20d	1	100	24 ^{P.132}
9006	HB4	4050300 012650	12	51	P22d	1	100	25 ^{P.132}
9006-01B	HB4	Page 149	12	51	P22d	1	10	25 ^{P.132}
9006XS	HB4A	4008321 554284	12	51	P22d	1	100	26 ^{P.132}
9007	HB5	4050300 148816	12	65/55	PX29t	1	200	27 ^{P.132}

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

Product Reference	ECE	Product Number	V	W			4	Q No.
9011	HIR1	4008321 863966	12	65	PX20d	1	100	28 ^{P.132}
9012	HIR2	4008321 863997	12	55	PX22d	1	100	28 ^{P.132}
7506	P21W	4050300 838120	12	21	BA15s	10	50	38 ^{P.132}
7506-02B	P21W	Page 149	12	21	BA15s	2	20	38 ^{P.132}
7507 ²⁾	PY21W	4050300 891477	12	21	BAU15s	10	50	38 ^{P.132}
7507-02B ²⁾	PY21W	Page 149	12	21	BAU15s	2	20	38 ^{P.132}
7225	P21/4W	4050300 891514	12	21/4	BAZ15d	10	50	39 ^{P.132}
7225-02B	P21/4W	Page 149	12	21/4	BAZ15d	2	20	39 ^{P.132}
7240	-	4050300 838007	12	21/5	BA15d	10	50	39 ^{P.132}
7528	P21/5W	4050300 838069	12	21/5	BAY15d	10	50	39 ^{P.132}
7528-02B	P21/5W	Page 149	12	21/5	BAY15d	2	20	39 ^{P.132}
3860	-	4008321 095756	12	5	BA9s	10	50	49 ^{P.133}
3893	T4W	4050300 838489	12	4	BA9s	10	50	49 ^{P.133}
3893-02B	T4W	Page 149	12	4	BA9s	2	20	49 ^{P.133}
2820	-	4008321 094094	12	2	W2.1x9.5d	10	50	51 ^{P.133}
2821	W3W	4050300 838663	12	3	W2.1x9.5d	10	50	51 ^{P.133}
2821-02B	W3W	Page 149	12	3	W2.1x9.5d	2	20	51 ^{P.133}
2825	W5W	4050300 838632	12	5	W2.1x9.5d	10	50	52 ^{P.133}
2825-02B	W5W	Page 149	12	5	W2.1x9.5d	2	20	52 ^{P.133}
28272)	WY5W	4052899 148000	12	5	W2.1x9.5d	10	50	52 ^{P.133}
2827-02B ²⁾	WY5W	Page 149	12	5	W2.1x9.5d	2	20	52 ^{P.133}
2886X	-	4008321 094667	12	6	W2.1x9.5d	10	50	52 ^{P.133}
921	W16W	4008321 100948	12	16	W2.1x9.5d	10	50	53 ^{P.133}
921-02B	W16W	Page 149	12	16	W2.1x9.5d	2	20	53 ^{P.133}
921NA ²⁾	WY16W	4052899 230460	12	16	W2.1x9.5d	10	50	54 ^{P.133}
7504 ²⁾	WY21W	4008321 165473	12	21	WX3x16d	10	50	55 ^{P.133}
7505	W21W	4052899 324244	12	21	W3x16d	10	50	55 ^{P.133}
7505-02B	W21W	Page 149	12	21	W3x16d	2	20	55 ^{P.133}
7515	W21/5W	4052899 324312	12	21/5	W3x16q	10	50	56 ^{P.133}
7515-02B	W21/5W	Page 149	12	21/5	W3x16q	2	20	56 ^{P.133}
2721	-	4050300 838540	12	1.2	W2x4.6d	10	50	58 ^{P.133}
2721-02B	-	Page 149	12	1.2	W2x4.6d	2	20	58 ^{P.133}
2722	-	4008321 094803	12	2	W2x4.6d	10	50	58 ^{P.133}
2722-02B	-	Page 149	12	2	W2x4.6d	2	20	58 ^{P.133}

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

Product Reference	ECE	Product Number	V	W				Ç No.
2723	W2.3W	4008321 094834	12	2.3	W2x4.6d	10	50	50 ^{P.133}
64132	H6W	4008321 094896	12	6	BAX9s	10	50	37 ^{P.132}
64136	H21W	4008321 095190	12	21	BAY9s	10	50	34 ^{P.132}
5007	R5W	4050300 838427	12	5	BA15s	10	50	48 ^{P.133}
5007-02B	R5W	Page 149	12	5	BA15s	2	20	48 ^{P.133}
5008	R10W	4050300 838212	12	10	BA15s	10	50	48 ^{P.133}
5008-02B	R10W	Page 149	12	10	BA15s	2	20	48 ^{P.133}
5009 ²⁾	RY10W	4008321 095442	12	10	BAU15s	10	50	48 ^{P.133}
6411	-	4050300 891354	12	10	SV8.5-8	10	50	61 ^{P.133}
6411-02B	-	Page 149	12	10	SV8.5-8	2	20	61 ^{P.133}
64111 ³⁾	-	4008321 095015	12	5	BA9s	10	50	65 ^{P.133}
64111-02B ³⁾	-	Page 149	12	5	BA9s	2	20	65 ^{P.133}
64113	-	4008321 095046	12	10	BA9s	10	50	65 ^{P.133}
64115	-	4008321 095077	12	20	BA9s	10	50	65 ^{P.133}
6413	-	4050300 891439	12	5	SV8.5-8	10	50	61 ^{P.133}
6418	C5W	4050300 838397	12	5	SV8.5-8	10	50	36 ^{P.132}
6418-02B	C5W	Page 149	12	5	SV8.5-8	2	20	36 ^{P.132}
6428	-	4008321 094384	12	3	SV7-8	10	50	62 ^{P.133}
6438	-	4008321 094353	12	10	SV8.5-8	10	50	63 ^{P.133}
6438-02B	-	Page 149	12	10	SV8.5-8	2	20	63 ^{P.133}
6461	-	4008321 094261	12	10	SV8.5-8	10	50	64 ^{P.133}
6486X	-	4008321 094292	12	6	SV8.5-8	10	50	_
2351MFX6	-	4008321 096852	12	1.2	BX8.4d	10	50	66 ^{P.133}
2352MFX6	-	4008321 097149	12	2	BX8.4d	10	50	67 ^{P.133}
2452MFX6	-	4008321 097118	12	1.5	BX8.4d	10	50	68 ^{P.133}
2473MFX6	-	4008321 096821	12	1.12	BX8.4d	10	50	69 ^{P.133}
2721MFX	-	4008321 297150	12	1.2	BX8.5d	10	50	71 ^{P.133}
2722MFX	-	4008321 297181	12	2	BX8.5d	10	50	73 ^{P.133}
2721MF	-	4050300 891255	12	1.2	B8.5d	10	50	70 ^{P.133}
2722MF	-	4008321 096791	12	2	B8.5d	10	50	72 ^{P.133}
3156	P27W	4008321 090621	12	27	W2.5x16d	10	50	40 ^{P.132}
3157	P27/7W	4052899 183414	12	27/7	W2.5x16q	10	50	41 ^{P.132}
3757AK ²⁾	PY27/7W	4052899 178731	12	27/7	W2.5x16q	10	50	42 ^{P.132}
3796	-	4050300 891309	12	2	Ba9s	10	50	60 ^{P.133}
5201	PS19W	4052899 600546	12	19	PG20-1	10	50	45 ^{P.133}
5202	PS24W	4052899 600584	12	24	PG20-3	10	50	46 ^{P.133}
2504	PSX24W	4052899 600560	12	24	PG20-7	10	50	47 ^{P.133}



The suffix on the product reference indicates the board thickness:

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

¹⁾ Successor type for BILUX®-AS® lamp (product reference 7951)

²⁾ Amber lamps for clear indicator lights

³⁾ Also available with glass base (product reference 6411150 or 6411350)

OSRAM MINIBOX

Mobile lamp replacement

Defects in a vehicle 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.



Features

- Range of most important spare lamps
- Clear labeling and application illustration
- Reserve light for cars
- Original Spare Parts that exceed all ECE minimum standards

- You'll always have the right spare lamps at hand
- Easy identification
- Mandatory in many countries
- Premium quality made in Germany

OSRAM MINIBOX product range



H1 ORIGINAL box

The H1 box is equipped with one H1 headlight lamp and contains the following five most important spare lamps and three flat fuses.

H4 ORIGINAL box

The H4 box is equipped with one H4 headlight lamp and contains the following five most important spare lamps and three flat fuses.

H7 ORIGINAL box

The H7 box is equipped with one H7 headlight lamp and contains the following five most important spare lamps and three flat fuses.

H1/H7 ORIGINAL box

The H1/H7 box is equipped with one H1 and one H7 headlight lamp and contains the following five most important spare lamps and three flat fuses.

	Product Number	Product Reference	ECE	i
H1 box	4050300 875217	64150	H1	Headlight + five spare lamps and three flat fuses
H4 box	4050300 873398	64193	H4	Headlight + five spare lamps and three flat fuses
H7 box	4050300 876375	64210	H4	Headlight + five spare lamps and three flat fuses
H1/H7 box	4052899 522640	64150/64210	H1/H7	Headlights + five spare lamps and three flat fuses
All boxes		7506	P21W	Brake and tail light
		7507	PY21W	Indicator light, amber
		7528	P21/5W	Brake/tail light
		5007	R5W	Tail light and license plate light
		2825	W5W	Parking light
				15 A, 20 A, 30 A flat fuses



Halogen lamps for motorcycles and scooters – safety first

Motorcycles, mopeds, or scooters are all too often overlooked in traffic – especially at night. The right lighting can save lives. Drivers of motorized two-wheelers value OSRAM motorcycle lamps for their high performance and high vibration resistance proven in tests. OSRAM halogen headlight lamps optimize illumination on the roads and provide more reaction time in the event of an emergency. Alongside increased safety, OSRAM offers bikers with motorcycle lamps a wide variety of customization options from the design, performance, and original portfolio.



OSRAM motorcycle lamps Vibration-resistant technology

Power and emotion, for relaxed cruisers and sportive riders: With NIGHT RACER® 110, NIGHT RACER® 90, NIGHT RACER® 50, X-RACER® and ORIGINAL, OSRAM offers a wide range of high performance motorcycle lamps – opening a new dimension for life on two wheels.



Features of NIGHT RACER® 110

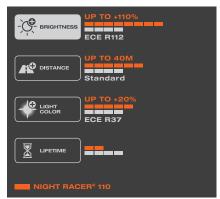
- Up to 110% more brightness¹⁾
- Up to 40 m longer beam²⁾
- Up to 20% whiter light¹⁾
- Vibration-resistant technology
- Partial blue coating and silver cap

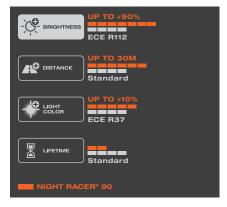
Features of NIGHT RACER® 90

- Up to 90% more brightness¹⁾
- Up to 30 m longer beam²⁾
- Up to 10% whiter light¹⁾
- Vibration-resistant technology
- Partial blue coating and silver cap

Benefits of NIGHT RACER® 110 / NIGHT RACER® 90

- More light allows to see farther and therefore react sooner
- Better visibility
- Modern look
- Tested for resilience with speed and changing road surfaces
- Eye-catching design







OSRAM NIGHT RACER® 110 product range

Product Reference	ECE	Product Number	V	W				No.
64193NR1-01B	H4	Page 149	12	60/55	P43t	1	10	8 ^{P.132}
64193NR1-02B	H4	4052899 929678	12	60/55	P43t	2	20	8 ^{P.132}
64210NR1-01B	H7	Page 149	12	55	PX26d	1	10	9 ^{P.132}
64210NR1-02B	H7	4052899 929616	12	55	PX26d	2	20	9 ^{P.132}
64212NR1-01B	H8	Page 149	12	35	PGJ19-1	2	20	10 ^{P.132}
64211NR1-01B	H11	Page 149	12	55	PGJ19-2	1	10	15 ^{P.132}

OSRAM NIGHT RACER® 90 product range

Product Reference	ECE	Product Number	V	W				No.
64185NR9-01B	HS1	Page 149	12	35/35	PX43t	1	10	30 ^{P.132}

¹⁾ Compared to minimum ECE R112/R37 requirements

²⁾ Compared with standard lamps

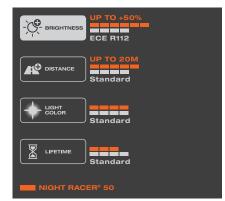


Features of NIGHT RACER® 50

- Up to 50% more brightness¹⁾
 Up to 20 m longer beam²⁾
- Vibration-resistant technology
- Modern design with silver cap
- Excellent performance-lifetime

Benefits of NIGHT RACER® 50

- More light allows to see farther and therefore react sooner
- Better visibility
- Tested for resilience with speed and changing road surfaces
- Ideal for use in clear-glass headlights
- More light at a reasonable lifetime





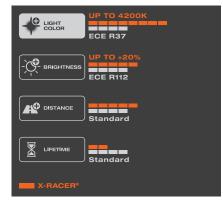
OSRAM NIGHT RACER® 50 product range

Product Reference	ECE	Product Number	V	W				No.
64193NR5-01B	H4	Page 149	12	60/55	P43t	1	10	8 ^{P.132}
64210NR5-01B	H7	Page 149	12	55	PX26d	1	10	9 ^{P.132}
64211NR5-01B	H11	Page 149	12	55	PGJ19-2	1	10	15 ^{P.132}
64185NR5	HS1	4052899 933002	12	35/35	PX43t	1	10	30 ^{P.132}
64185NR5-01B	HS1	Page 149	12	35/35	PX43t	1	10	30 ^{P.132}

¹⁾ Compared to minimum ECE R112 requirements

²⁾ Compared with standard lamps





Features of X-RACER®

- Bluish-white light for xenon look
- Color temperatures of up to 4,200 K
- Up to 20% more brightness¹⁾
- Vibration-resistant technology
- Modern design with silver cap

Benefits of X-RACER®

- Modern and stylish look
- High contrast
- More light allows to see farther and therefore react sooner
- Tested for resilience with speed and changing road surfaces
- Ideal for use in clear-glass headlights

Features of ORIGINAL

- OEM Quality
- Original spare parts that exceed all ECE minimum standards
- Wide product range

Benefits of ORIGINAL

- Tried and trusted in millions of vehicles of well-known manufacturers
- Premium quality
- Suitable for the most common headlights







OSRAM X-RACER® product range

Product Reference	ECE	Product Number	V	W				No.
64193XR-01B	H4	Page 149	12	60/55	P43t	1	20	8 ^{P.132}
64193XR-02B	H4	4052899 929630	12	60/55	P43t	2	20	8 ^{P.132}
64210XR-01B	H7	Page 149	12	55	PX26d	1	20	9 ^{P.132}
64210XR-02B	H7	4052899 929579	12	55	PX26d	2	20	9 ^{P.132}
64212XR-01B	H8	Page 149	12	35	PGJ19-1	1	10	10 ^{P.132}
64211XR-01B	H11	Page 149	12	55	PGJ19-2	1	10	15 ^{P.132}
64185XR-01B	HS1	Page 149	12	35/35	PX43t	1	10	30 ^{P.132}
64327XR-01B	S2	Page 149	12	35/35	BA20d	1	10	33 ^{P.132}

OSRAM ORIGINAL product range

Product Reference	ECE	Product Number	V	W			4	No.
64193MC	H4	4052899 451353	12	60/55	P43t	1	20	8 ^{P.132}
64210MC	H7	4052899 451384	12	55	PX26d	1	20	9 ^{P.132}
64326	S1	4052899 157774	12	25/25	BA20d	1	100	33 ^{P.132}
64327	S2	4052899 136755	12	35/35	BA20d	1	100	33 ^{P.132}
64327-01B	S2	Page 149	12	35/35	BA20d	1	10	33 ^{P.132}
64183 ¹⁾	R2	4050300 350554	12	45/40	P45t	1	100	31 ^{P.132}
64183-01B ¹⁾	R2	Page 149	12	45/40	P45t	1	10	31 ^{P.132}
64185	HS1	4050300 439969	12	35/35	PX43t	1	100	30 ^{P.132}
64185-01B	HS1	Page 149	12	35/35	PX43t	1	10	30 ^{P.132}

¹⁾ Compared to minimum ECE R112 requirements





Halogen lamps for buses and trucks – extreme durability, extreme high-performance

Truck and commercial vehicle lamps in daily use are often pushed to their performance limit. Lighting systems must therefore be enormously durable and extremely reliable – only then can they provide perfect light until the end of each run. The extremely long life of OSRAM high performance solutions enhances driving comfort and reduces maintenance time and fleet costs.

Vehicle drivers and fleet managers can choose from a wide range of high performance truck lamps at OSRAM. All lighting solutions not only meet the highest quality requirements and offer OEM quality, but also exceed even European standards.

9

OSRAM TRUCKSTAR® PRO Brightest OSRAM truck light

Up to 100% more brightness compared to the minimum legal standard, extra lifetime and very high vibration resistance are ideal for professional drivers while reducing downtime and fleet costs.



Features

- Up to 100% more brightness¹⁾
- More than double the service life²⁾
- Very high vibration resistance

Renefits

- More light allows to see farther and therefore react sooner
- Reduced downtime and fleet costs
- Suitable for heavy duty applications





OSRAM TRUCKSTAR® PRO product range

Product Reference	ECE	Product Number	V	W			6	No.
64155TSP	H1	4008321 784179	24	70	P14.5s	1	100	5 ^{P.132}
64155TSP-HCB	H1	Page 149	24	70	P14.5s	2	20	5 ^{P.132}
64156TSP	НЗ	4008321 784261	24	70	PK22s	1	100	7 ^{P.132}
64156TSP-01B	НЗ	Page 149	24	70	PK22s	1	10	7 ^{P.132}
64196TSP	H4	4008321 785046	24	75/70	P43t	1	100	8 ^{P.132}
64196TSP-HCB	H4	Page 149	24	75/70	P43t	2	20	8 ^{P.132}
64215TSP	H7	4008321 785114	24	70	PX26d	1	100	9 ^{P.132}
64215TSP-HCB	H7	Page 149	24	70	PX26d	2	20	9 ^{P.132}
64216TSP	H11	4052899 904804	24	70	PGJ19-2	1	100	15 ^{P.132}
64216TSP-HCB	H11	Page 149	24	70	PGJ19-2	2	20	15 ^{P.132}
7510TSP ³⁾	PY21W	4008321 798169	24	21	BAU15s	10	50	38 ^{P.132}
7511TSP	P21W	4052899 340459	24	21	BA15s	10	50	38 ^{P.132}
7537TSP	P21/5W	4008321 798138	24	21/5	BAY15d	10	50	39 ^{P.132}
2845TSP	W5W	4008321 798077	24	5	W2.1x9.5d	10	50	52 ^{P.133}
5627TSP	R5W	4008321 795151	24	5	BA15s	10	50	48 ^{P.133}
5637TSP	R10W	4008321 795205	24	10	BA15s	10	50	48 ^{P.133}
3930TSP	T4W	4008321 795106	24	4	BA9s	10	50	49 ^{P.133}
3930TSP-02B	T4W	Page 149	24	4	BA9s	2	20	49 ^{P.133}

¹⁾ Compared to minimum ECE R112 requirements

²⁾ Compared with standard lamps

³⁾ Amber lamps for clear indicator lights

OSRAM ORIGINAL LINE 24 V Original spare part for trucks

A balanced and economic solution for all standard requirements in the 24 V sector. Successfully used in millions of new vehicles from renowned manufacturers, whether as standard initial equipment or original spare parts.



Features

- OEM Quality
- Original spare parts that exceed all ECE minimum standards
- Wide product range

Benefits

- Tried and trusted in millions of vehicles of well-known manufacturers
- Premium quality made in Europe
- Suitable for the most common applications

The suffix on the product reference indicates the board thickness:

MF: 2.0 mm MFX: 1.5 mm



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

Product Reference	ECE	Product Number	V	W				No.
64155	H1	4050300 016498	24	70	P14.5s	1	100	5 ^{P.132}
64155-01B	H1	Page 149	24	70	P14.5s	1	10	5 ^{P.132}
64175	H2	4050300 218960	24	70	X511	1	100	6 ^{P.132}
64156	НЗ	4050300 016535	24	70	PK22s	1	100	7 ^{P.132}
64156-01B	НЗ	Page 149	24	70	PK22s	1	10	7 ^{P.132}
64196	H4	4050300 016542	24	75/70	P43t	1	100	8 ^{P.132}
64196-01B	H4	Page 150	24	75/70	P43t	1	10	8 ^{P.132}
94196	H4	4050300 250632	24	75/70	P43t	1	100	8 ^{P.132}
64215	H7	4050300 386522	24	70	PX26d	1	100	9 ^{P.132}
64215-01B	H7	Page 150	24	70	PX26d	1	10	9 ^{P.132}
64177	H15	4008321 536556	24	20/60	PGJ23t-1	1	100	18 ^{P.132}
7511	P21W	4050300 838090	24	21	BA15s	10	50	38 ^{P.132}
7511-02B	P21W	Page 150	24	21	BA15s	2	20	38 ^{P.132}
7537	P21/5W	4050300 838038	24	21/5	BAY15d	10	50	39 ^{P.132}
7537-02B	P21/5W	Page 150	24	21/5	BAY15d	2	20	39 ^{P.132}
7529	-	4050300 891774	24	15	BA15s	10	50	38 ^{P.132}
5626	R5W	4008321 095336	24	5	BA15d	10	50	48 ^{P.133}
5627	R5W	4050300 838335	24	5	BA15s	10	50	48 ^{P.133}
5627-02B	R5W	Page 150	24	5	BA15s	2	20	48 ^{P.133}
5637	R10W	4050300 831459	24	10	BA15s	10	50	48 ^{P.133}
5637-02B	R10W	Page 150	24	10	BA15s	2	20	48 ^{P.133}
3930	T4W	4050300 838366	24	4	BA9s	10	50	49 ^{P.133}
3930-02B	T4W	Page 150	24	4	BA9s	2	20	49 ^{P.133}
64138	H21W	4008321 094988	24	21	BAY9s	10	50	34 ^{P.133}
2341	-	4008321 132529	24	1	W2x4.6d	10	50	57 ^{P.133}
2840	-	4008321 094698	24	2	W2.1x9.5d	10	50	59 ^{P.133}
2841	W3W	4008321 094728	24	3	W2.1x9.5d	10	50	51 ^{P.133}
2841-02B	W3W	Page 150	24	3	W2.1x9.5d	2	20	51 ^{P.133}
2845	W5W	4050300 891552	24	5	W2.1x9.5d	10	50	52 ^{P.133}
2845-02B	W5W	Page 150	24	5	W2.1x9.5d	2	20	52 ^{P.133}
2741	-	4050300 838519	24	1.2	W2x4.6d	10	50	58 ^{P.133}
6421	-	4008321 090768	24	3	SV8.5-8	10	50	61 ^{P.133}
6423	C5W	4050300 831435	24	5	SV8.5-8	10	50	36 ^{P.132}
6423-02B	C5W	Page 150	24	5	SV8.5-8	2	20	36 ^{P.132}
6424	-	4050300 891712	24	5	SV8.5-8	10	50	61 ^{P.133}
6429	-	4008321 090836	24	10	SV8.5-8	10	50	61 ^{P.133}
6430	-	4008321 094414	24	3	SV8.5-8	10	50	62 ^{P.133}
2741MF	-	4050300 891606	24	1.2	B8.5d	10	50	74 ^{P.133}
2741MFX	-	4008321 297211	24	1.2	BX8.5d	10	50	74 ^{P.133}

OSRAM spare lamp kit 24 V 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.



Features

- Range of most important spare lamps
- Clear labeling and application illustration
- Original Spare Parts that exceed all ECE minimum standards

Benefits

- You'll always have the right spare lamps at hand
- Easy identification
- Premium quality made in Germany

OSRAM spare lamp box, 24V range



H7 TRUCKSTAR® PRO box

The TRUCKSTAR® PRO box is equipped with two H7 TRUCKSTAR® PRO headlight lamps and contains the following double sets of the six most important spare lamps and three flat fuses.

Product Number: 4008321809063

Product Reference	ECE	i

64215TSP	H7	Headlight	
7511TSP	P21W	Brake and tail light	
7510TSP	PY21W	Indicator light, amber	
7537TSP	P21/5W	Brake/tail light	
5627TSP	R5W	Tail light and license plate light	
5637TSP	R10W	Parking light	
3930TSP	T4W	Park and position light	
		15 A, 20 A, 30 A flat fuses	



H4 ORIGINAL box

Product Reference

The H4 box is equipped with two H4 headlight lamps and contains the following double sets of the six most important spare lamps and three flat fuses.

Product Number: 4008321583192

ECE

64196	H4	Headlight	
7511	P21W	Brake and tail light	
7510TSP	PY21W	Indicator light, amber	
7537	P21/5W	Brake/tail light	
5627	R5W	Tail light and license plate light	
5637	R10W	Parking light	
3930	T4W	Park and position light	

15 A, 20 A, 30 A flat fuses



H7 ORIGINAL box

Product Reference

The H7 box is equipped with two H7 headlight lamps and contains the following double sets of the six most important spare lamps and three flat fuses.

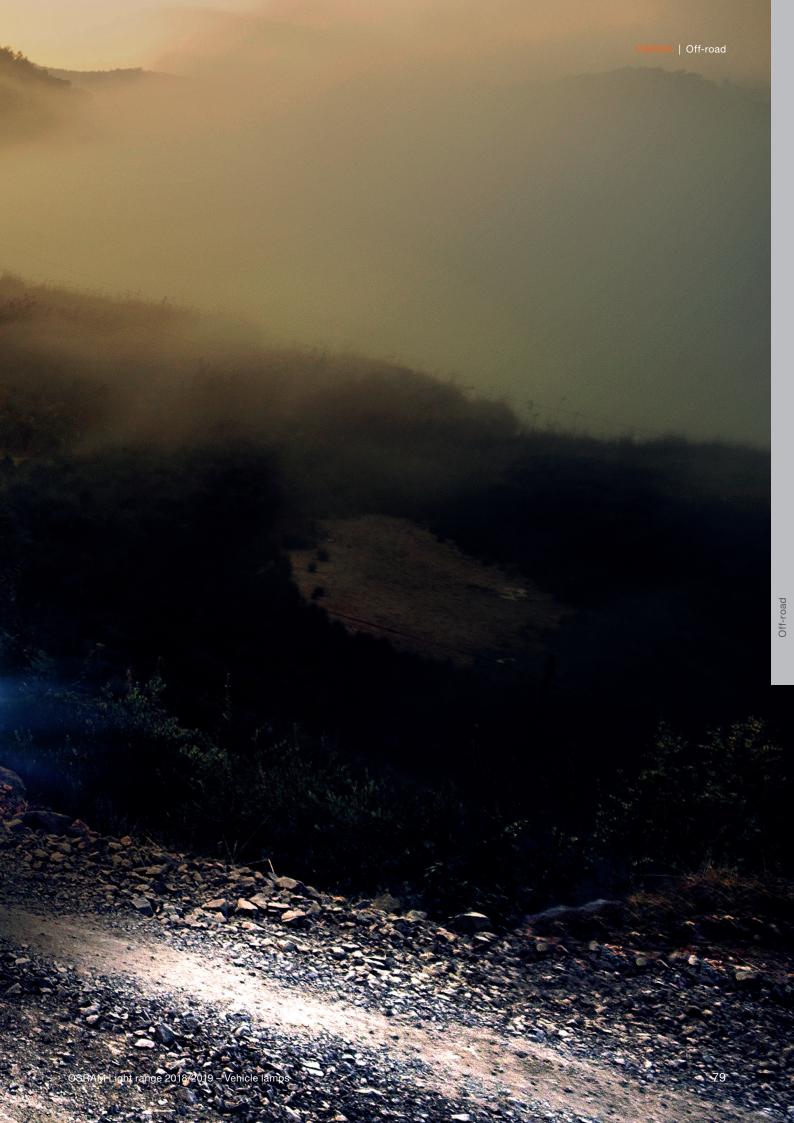
Product Number: 4008321583215

64215 7511	H7 P21W	Headlight Brake and tail light	
7510TSP	PY21W	Indicator light, amber	
7537	P21/5W	Brake/tail light	
5627	R5W	Tail light and license plate light	
5637	R10W	Parking light	
3930	T4W	Park and position light	
		15 A, 20 A, 30 A flat fuses	

Lamps for off-road use – best light, even off-road

Whether for competitions and races, construction and transport work, agriculture and forestry, or an enthusiast off-roader, driving off-road demands everything of lighting systems. Thanks to many years of experience in off-road driving, OSRAM knows exactly what these drivers want. In addition to robustness, resistance, and stability, above all they want outstanding and reliable lighting performance. The answer is a strong OSRAM product range of off-road lamps with high wattage that impress with excellent brightness and high color temperature in absolutely any environment.

¹⁾ These products do not have ECE approval. This means they must not be used on public roads in any exterior application. Use on public roads leads to cancellation of operating license and loss of insurance coverage. Several countries do not allow sale and use of these products. Please contact your local distributor for information on the availability in your country.



SUPER BRIGHT PREMIUM / SUPER BRIGHT

Extra power for off-road use

With a strong portfolio of high-wattage off-road lamps with extra power, OSRAM provides solutions for even the most unusual requirements. All lamps are designed and designated for off-road use only and not permitted on public roads¹⁾.



Features¹⁾

- Extra power due to high wattage
- Excellent brightness
- Rugged and versatile

Benefits1)

- For the most difficult terrain: rescue services, construction and transport work, agriculture and forestry
- More light allows to see farther and therefore react sooner
- Solution for even the most unusual requirements





OSRAM SUPER BRIGHT PREMIUM / SUPER BRIGHT high-performance headlamps¹⁾ – product range

Product Reference		Product Number	V	W			No.
62200SBP	P14.5s (H1)	4052899 126282	12	100	1	100	5 ^{P.132}
62201SBP	PK22s (H3)	4052899 126312	12	100	1	100	7 ^{P.132}
62204SBP	P43t (H4)	4008321 856357	12	100/90	1	100	8 ^{P.132}
62261SBP	PX26d (H7)	4008321 856388	12	80	1	100	9 ^{P.132}
69005SBP	P20d (HB3)	4008321 888174	12	100	1	100	23 ^{P.132}
69006SBP	P22d (HB4)	4008321 888228	12	80	1	100	25 ^{P.132}
64152SB	PX14.5s	4050300 222738	12	100	1	100	5 ^{P.132}
64153SB	PKY22s	4050300 222837	12	100	1	100	7 ^{P.132}
64194SB	PU43t	4050300 225852	12	100/90	1	100	8 ^{P.132}
64204SB	P45t (R2)	4052899 931565	12	100/90	1	100	31 ^{P.132}
64198SB	P45t (R2)	4050300 222028	12	60/55	1	100	31 ^{P.132}

¹⁾ These products do not have ECE approval. This means they must not be used on public roads in any exterior application. Use on public roads leads to cancellation of operating license and loss of insurance coverage. Several countries do not allow sale and use of these products. Please contact your local distributor for information on the availability in your country.

XENARC® COOL BLUE® BOOST / COOL BLUE® BOOST

Hyper blue light for off-road use

The COOL BLUE® BOOST and XENARC® COOL BLUE® BOOST product families convince with hyper blue light and high color temperatures. All lamps are designed and designated for off-road use only and not permitted on public roads¹).



Features of XENARC® COOL BLUE® BOOST¹)

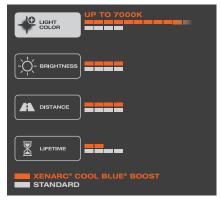
- Hyper blue light due to a special filling system used instead of conventional coating
- Color temperatures of up to 7,000 K
- Enhanced brightness

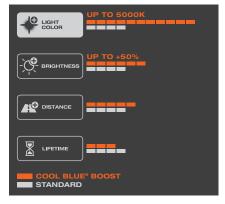
Features of COOL BLUE® BOOST¹)

- Hyper blue light
- Color temperatures of up to 5,000 K
- Up to 50% more light²⁾

Benefits of XENARC® COOL BLUE® BOOST¹) / COOL BLUE® BOOST¹)

- Modern look
- High contrast
- More light allows to see farther and therefore react sooner







OSRAM XENARC® COOL BLUE® BOOST high-performance headlamps¹) – product range

Product Reference		Product Number	V	W			No.
66140CBB-HCB	PK32d-2 (D1S)	Page 148	12/24	35	2	10	1 P.132
66240CBB-HCB	P32d-2 (D2S)	Page 148	12/24	35	2	10	3 ^{P.132}
66340CBB-HCB	PK32d-5 (D3S)	Page 148	12/24	35	2	10	1 ^{P.132}
66440CBB-HCB	P32d-5 (D4S)	Page 148	12/24	35	2	10	3 ^{P.132}

OSRAM COOL BLUE® BOOST high-performance headlamps¹) – product range

Product Reference		-	Product Number	V	W			No.
62150CBB-HCB	P14.5s	(H1)	Page 150	12	80	2	20	5 ^{P.132}
62193CBB-HCB	P43t	(H4)	Page 150	12	100/90	2	20	8 ^{P.132}
62210CBB-HCB	PX26d	(H7)	Page 150	12	80	2	20	9 ^{P.132}
62213CBB-HCB	PGJ19-5	5 (H9)	Page 150	12	75	2	20	12 ^{P.132}
62211CBB-HCB	PGJ19-2	2 (H11)	Page 150	12	75	2	20	15 ^{P.132}
69005CBB-HCB	P20d	(HB3/HB3A) Page 150	12	100	2	20	23/24 ^{P.132}
69006CBB-HCB	P22d	(HB4/HB4A) Page 150	12	80	2	20	25/26 ^{P.132}

¹⁾ These products do not have ECE approval. This means they must not be used on public roads in any exterior application. Use on public roads leads to cancellation of operating license and loss of insurance coverage. Several countries do not allow sale and use of these products. Please contact your local distributor for information on the availability in your country.

²⁾ Compared with other blue coated halogen lamps

LED fixtures for a strong look

OSRAM offers a variety of automotive fixtures like LED headlights, driving and working lights, daytime running lights and fog lights to upgrade certain vehicles with state-of-the-art technology for a modern look.

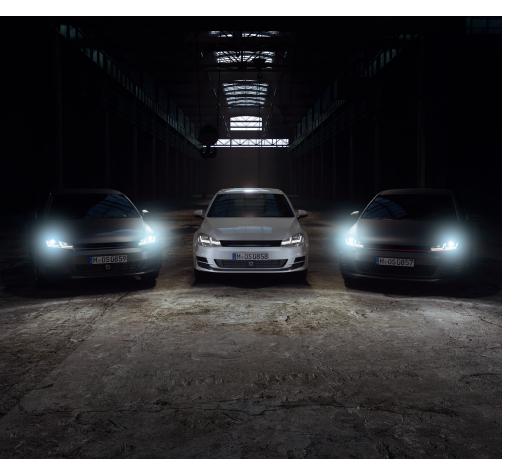


LED fixtures

OSRAM | LED fixtures

LEDriving® headlight Full LED redesign made easy – and legal

The OSRAM LEDriving® headlights for VW Golf VII offer a legal performance and outstanding design upgrade for halogen-based or high intense discharge (HID)-based VW Golf VII models. All the lighting functions feature state-of-the-art LED technology: low beam, high beam, daytime running, position and turn indicator lights. Road safety also plays a major role.



Features

- Up to 200% more light¹⁾
- Up to 200 m long light cone
- Up to 100% whiter light²⁾
- Premium OSRAM quality available as GTI, BLACK and CHROME edition
- Full LED, ECE certified with long lifetime

Benefits

- More light allows to see farther and therefore react faster thanks to pixel-free optic and state-ofthe-art lightguide technology
- Better visibility due to daylight effect with easy plug & play installation without modifying or damaging existing cables
- High contrast and brilliantly cool white LED light for most stylish look on the road
- 2-year guarantee³⁾
- No additional beam level adjustment and headlight cleaning system required, as well as no additional parts and no registration needed for installation

OSRAM LEDriving® headlights for Golf VII as halogen replacement

Product Reference	Product Number	V	W	K	 mm	<u>₩</u> [mm]	h [mm]			No.
LEDHL103-GTI ⁴⁾⁵⁾	4052899 599628	12	-	6500	630	400	240	1	1	2 ^{P.129}
LEDHL103-CM ⁴⁾⁵⁾	4052899 599611	12	-	6500	630	400	240	1	1	2 ^{P.129}
LEDHL103-BK ⁴⁾⁵⁾	4052899 599598	12	-	6500	630	400	240	1	1	2 ^{P.129}

OSRAM LEDriving® headlights for Golf VII as xenon replacement

Product Reference	Product Number	V	W	K		₩ [mm]	† h [mm]			No.
LEDHL104-GTI ⁴⁾⁵⁾	4052899 604933	12	-	6500	630	400	240	1	1	2 ^{P.129}
LEDHL104-CM ⁴⁾⁵⁾	4052899 604919	12	-	6500	630	400	240	1	1	2 ^{P.129}
LEDHL104-BK ⁴⁾⁵⁾	4052899 604896	12	-	6500	630	400	240	1	1	2 ^{P.129}







Position Light and Low Beam



Position Light and High Beam



Position Light and Signal Light

¹⁾ Compared to minimum ECE R112 requirements

²⁾ When compared with standard headlights with halogen lamp

³⁾ Refer to www.osram.com/am-guarantee for precise conditions

⁴⁾ Not suitable for left-hand traffic

⁵⁾ Only suitable for VW Golf VII car models with OEM halogen or OEM xenon-headlights with halogen daytime running light

LEDriving® XENARC® headlight Redesign made easy – and legal

With its outstanding design, the LEDriving® XENARC® headlight combines modern LED daytime running light functionality with a powerful xenon lamp. With this headlight, OSRAM offers a solution for all VW Golf VI and Ford Focus models not equipped with xenon headlights. Upgrading to the ECE-approved LEDriving® XENARC® headlight complies with all legal requirements – no need to fit automatic leveling or a headlight-cleaning system.



Features of LEDriving® XENARC® headlight for VW Golf VI

- Up to 70% more light¹⁾
- Up to 180 m long light cone
- Up to 40% whiter light²⁾
- Premium OSRAM quality available as GTI, BLACK and CHROME edition
- ECE certified with extra lifetime

Features of LEDriving® XENARC® headlight for Ford Focus

- Up to 70% more light¹⁾
- Up to 180 m long light cone
- Up to 40% whiter light²⁾
- Premium OSRAM quality
- ECE certified with extra lifetime

Benefits of LEDriving® XENARC® headlight for VW Golf VI and for Ford Focus

- More light allows to see farther and therefore react sooner thanks to pixel-free optic and state-ofthe-art lightguide technology
- Better visibility due to daylight effect with easy plug & play installation without modifying or damaging existing cables
- High contrast and brilliantly cool white LED light for the most stylish look on the road
- 2-year guarantee³⁾
- No additional beam level adjustment and headlight cleaning system required, as well as no additional parts and no registration needed for installation

OSRAM LEDriving® XENARC® headlight for Ford Focus

Product Reference	Product Number	V	W	K	 [mm]	W [mm]	h [mm]			No.
LEDHL105 ⁴⁾⁵⁾	4052899 600997	12	70	6000	690	400	200	1	1	3 ^{P.129}









Daytime Running Light

Position Light and Low Beam

Position Light and High Beam

Position Light and Signal Light

OSRAM LEDriving® XENARC® headlight for VW Golf VI

Product Reference	Product Number	V	W	K	[mm]	W [mm]	h [mm]			No.
LEDHL102-GTI ⁴⁾⁵⁾	4052899 982161	12	70	-	410	450	200	1	1	1 P.129
LEDHL102-CM ⁴⁾⁵⁾	4052899 982147	12	70	-	410	450	200	1	1	1 P.129
LEDHL102-BK ⁴⁾⁵⁾	4052899 982123	12	70	-	410	450	200	1	1	1 P.129
LEDHL102-BK RHD	⁵⁾⁶⁾ 4052899 519404	12	70	-	410	450	200	1	1	1 P.129







Position Light and Low Beam



Position Light and High Beam



Position Light and Signal Light (Dynamic/Static)

¹⁾ Compared to minimum ECE R112 requirements

²⁾ When compared with standard headlights with halogen lamp

³⁾ Refer to www.osram.com/am-guarantee for precise conditions

⁴⁾ Not suitable for left-hand traffic

⁵⁾ Only suitable for Golf VI and Ford Focus cars with OEM halogen headlight

⁶⁾ Suitable for left-hand traffic



OSRAM LEDriving® working and driving lights Light for dedicated application options

OSRAM's LED driving and working lights offer the most sophisticated LED technology and electrical design on the market. Products are available in three categories (functional, multifunctional and slim) offering a variety of performances, shapes and beam patterns with various illumination profiles like spot, wide and combo. Products are available for 12 and 24 voltage vehicles.

Features¹⁾

- Different high beam patterns (spot, wide or combo) with various beam angles available
- Powerful far and near field illumination up to 450 m
- Extremely high optic efficiency, homogeneous light distribution and reduced glaring
- Premium OSRAM quality
- Robust and compact design with long lifetime of up to 5,000 h thanks to integrated driver and thermal management system

Benefits1)

- Improved illumination thanks to high brightness
- Better visibility due to daylight effect for increased road safety
- Lighting up the intended illumination area
- 5-year guarantee²⁾
- Extremely robust polycarbonate lens to endure heavy duty application, multiple voltage protection



¹⁾ Driving lights must be installed in pairs for 12/24 V-vehicles | 2) Refer to www.osram.com/am-guarantee for precise conditions

Multifunctional series product range – OSRAM LED working lights



LEDriving® CUBE MX85-SP (LEDDL101-SP)



LEDriving® CUBE MX85-WD (LEDDL101-WD)



LEDriving® LIGHTBAR MX140-WD (LEDDL102-WD)

LED driving lights



LEDriving® LIGHTBAR MX140-SP (LEDDL102-SP)

Product Reference	Product Number	V	W	K	[mm]	W [mm]	h [mm]		4	No.
LEDDL101-SP	4052899 595255	12	22/2	6000	85	57	121,5	1	8	4 ^{P.129}
LEDDL101-WD	4052899 595279	12	22/2	6000	85	57	121,5	1	8	4 ^{P.129}
LEDDL102-WD	4052899 595316	12/24	30/2	6000	140	69,2	85,9	1	8	5 ^{P.129}
LEDDL102-SP1)	4052899 595293	12/24	30/2	6000	140	69,2	85,9	1	8	5 ^{P.129}

Norking light application

Functional series product range - OSRAM LED driving lights



LEDriving® LIGHTBAR FX250-SP (LEDDL103-SP)



LEDriving® LIGHTBAR FX250-CB (LEDDL103-CB)



LEDriving® LIGHTBAR FX500-SP (LEDDL104-SP)



LEDriving® LIGHTBAR FX500-CB (LEDDL104-CB)

Product Reference	Product Number	V	W	K	[mm]	[mm]	h [mm]			No.
LEDDL103-SP1)	4052899 595330	12/24	35	6000	309	93,5	77	1	4	6 ^{P.129}
LEDDL103-CB ¹⁾	4052899 595354	12/24	35	6000	309	93,5	77	1	4	6 ^{P.129}
LEDDL104-SP1)	4052899 595378	12/24	33	6000	564	93,5	77	1	4	7 ^{P.129}
LEDDL104-CB ¹⁾	4052899 595392	12/24	70	6000	564	93,5	77	1	4	7 ^{P.129}

Slim series product range – OSRAM LED driving lights



LEDriving® LIGHTBAR SX180-SP (LEDDL105-SP)



LEDriving® LIGHTBAR SX300-SP (LEDDL106-SP)



LEDriving® LIGHTBAR SX500-SP (LEDDL107-SP)

Product Reference	Product Number	V	W	K	<u> </u> [mm]		h [mm]			No.
LEDDL105-SP1)	4052899 595415	12/24	14	6000	182	63,5	50	1	8	8 ^{P.129}
LEDDL106-SP1)	4052899 595439	12/24	29	6000	350	63,5	50	1	4	9 ^{P.129}
LEDDL107-SP1)	4052899 595453	12/24	46	6000	556	63,5	50	1	4	10 ^{P.129}



OSRAM LEDriving® daytime running lights Stylish highlights for state-of-the-art headlights

Innovative, easy-to-install lightguide and pixel solution with high-quality LED technology for low energy consumption and long lifetime: LEDriving® daytime running lights are the right choice for drivers who want to increase visibility during the day and with an eye for design.

Features of LG (LEDDRL102)

- Lightguide technology for homogeneous light distribution
- LED daytime running light including position light
- Color temperatures of up to 6,000 K
- Premium OSRAM quality
- OEM technology with long lifetime of up to 5,000 h and low energy consumption

Features of PX-5 (LEDDRL301 CL15)

- Faceted optic and dotted pixel technology
- LED daytime running light (ECE certified)
- Color temperatures of up to 5,200 K
- Premium OSRAM quality
- Long lifetime of up to 5,000 h with low energy consumption

Benefits of LG (LEDDRL102)

- Pixel-free brilliance and dynamic curves
- Dimmable light functions
- Perfect color match for existing HID and LED systems with cool white and stylish LED light
- 5-year guarantee¹⁾
- Simple installation and compatible with start-stop system and hybrid vehicles

Benefits of PX-5 (LEDDRL301 CL15)

- Dynamic appearance of the daytime running lights
- Legal LED upgrade by improving both visibility and style
- Perfect color match for existing HID and LED systems with cool white and stylish LED light
- 3-year guarantee1)
- Simple installation



OSRAM LEDriving® daytime running light product range



Product Reference	Product Number	V	W	K	1 (mm) 3)	W (mm) 3)	h [mm] 3)			No.
LEDDRL102 ²⁾	4052899 200494	12	15	6000	167	42	31	1	4	11 ^{P.129}
LEDDRL301 CL15 ²⁾	4052899 170766	12	13.5	5200	160	30	23	1	5	12 ^{P.129}

¹⁾ Refer to www.osram.com/am-guarantee for precise conditions

²⁾ Compatible with start-stop-system and hybrid vehicles

³⁾ Product measurements



OSRAM LEDriving® fog lights Better sight, better looks

LEDriving® fog lights offer brilliant LED options for tuning and technology fans. Improving both visibility and style, they perfectly complement one's headlights. Additional mounting brackets to install LEDriving® fog lights to different car models are available.

Features of FOG¹) (LEDFOG102)

- Faceted with Lightguide technology
- LED fog light with daytime running light functionality
- Color temperatures of up to 6,000 K
- Premium OSRAM quality
- OEM technology with long lifetime of up to 5,000 h

Benefits of FOG¹) (LEDFOG102)

- For homogeneous light distribution, suitable for 12 V and 24 V onboard power supply systems
- Simple installation with automatic operation thanks to intelligent control
- Perfect color match for existing HID and LED systems with cool white and stylish LED light
- 5-year guarantee²⁾
- Lens resistant to gravel impact according to ASTM D256 and ISO 179

Features of MOUNTING BRACKET

- Brackets for installation of LED fog lights
- Fits most car models with 90-mm fog lights
- Available for: Toyota, Volkswagen, Nissan and Infiniti car models
- OSRAM quality

Benefits of MOUNTING BRACKET

- Facilitating the installation of the OSRAM LED fog lights
- Simple installation, no further modifications required
- Adjustable for light cut-off
- 2-year guarantee²⁾







OSRAM LEDriving® FOG



Product Reference	Product Number	V	W	K	1 (mm) 3)	W 3) 3)	h [mm] 3)			Q No.
LEDFOG102	4052899 211490	12/24	7/12	6000	114	97.5	90	1	4	13 ^{P.130}

OSRAM LEDriving® MOUNTING BRACKET product range



Product Reference	Product Number	V	W	K	1 (mm) 3)	w (mm) 3)	h [mm]			No.
LEDFOG101-TY-M	4052899 094550	-	-	-	120	102	54	1	4	-
LEDFOG101-VW-M	4052899 274495	_	-	_	103	66.5	94	1	4	-
LEDFOG101-NIS-M	4052899 274518	_	-	_	137	95	33	1	4	-
LEDFOG101-INF-M	4052899 301757	-	-	_	114	97.5	90	1	4	-

¹⁾ LEDCBCTRL103 (P.98) avoids error messages on the board computer when using LED fog lights within 50 W applications

²⁾ Refer to www.osram.com/am-guarantee for precise conditions | 3) Product measurements



Features of FOG PL¹⁾ (LEDFOG103)

- Color projection lense of LED fog light
- LED fog light with daytime running light (ECE certified) functionality
- Color temperatures of up to 6,000 K
- Premium OSRAM quality
- Long lifetime of up to 5,000 h

Features of F1¹⁾ (LEDFOG201)

- LED fog light (ECE certified)
- Color temperatures of up to 6,000 K
- Robust and stylish design
- Premium OSRAM quality
- OEM technology with long lifetime of up to 5,000 h

Benefits of F1¹⁾ (LEDFOG201)

Benefits of FOG PL¹⁾ (LEDFOG103)

customization

5-year guarantee²⁾

brackets available)

and style

- Silver & blue color available for individual

- Perfect color match for existing HID and

Legal LED upgrade by improving both visibility

LED systems with cool white and stylish LED light

 More durability due to LED technology and simple installation thanks to built-in control box (mounting

- Legal LED upgrade by improving both visibility and style
- Perfect color match for existing HID and LED systems with cool white and stylish LED light
- Simple installation thanks to built-in control box (mounting brackets available)
- 3-year guarantee²⁾
- Lens resistant to gravel impact according to ASTM D256 and ISO 179

Features of MOUNTING BRACKET

- Brackets for installation of LED fog lights
- Fits most car models with 90-mm fog lights
- Available for: Toyota, Volkswagen, Nissan and Infiniti car models
- OSRAM quality

Benefits of MOUNTING BRACKET

- Facilitating the installation of the OSRAM LED fog lights
- Simple installation, no further modifications required
- Adjustable for light cut-off
- 2-year guarantee²⁾



Check the compability of your car! Vehicle Finder: www.osram.com/fog-finder





OSRAM LEDriving® FOG PL and LEDriving® F1 product range



Product Reference	Product Number	V	W	K	[mm] 3)	W [mm] 3)	† h (mm) (3)			Q No.
LEDFOG103-SR	4052899 288898	12	4/12	6000	114	95	90	1	4	14 ^{P.130}
LEDFOG103-BL	4052899 288959	12	4/12	6000	114	95	90	1	4	14 ^{P.130}
LEDFOG201	4052899 197985	12	8	6000	114	95.5	90	1	4	15 ^{P.130}

OSRAM LEDriving® MOUNTING BRACKET product range



Product Reference	Product Number	V	W	K	1 (mm) 3)	W (mm) 3)	h [mm]			No.
FOG103/201-TY-M	4052899 223394	-	-	-	120	96	77	1	4	_
FOG103/201-VW-M	4052899 274457	-	-	-	101	74	96	1	4	-
FOG103/201-NIS-M	4052899 274471	-	-	-	140	89	77	1	4	-

¹⁾ LEDCBCTRL103 (P.98) avoids error messages on the board computer when using LED fog lights within 50 W applications

²⁾ Refer to www.osram.com/am-guarantee for precise conditions \mid 3) Product measurements

OSRAM LEDriving® CANBUS CONTROL UNIT Making LED upgrades fit right in

LED lamps are highly energy-efficient. But their lower wattages prompt board computer warnings. The OSRAM solution: the Canbus Control Unit. It prevents warnings and allows the lightsource to run cool and retain their brightness. Simply clip the warning canceller between lamp and socket, and enjoy the full benefits of your OSRAM LED retrofits and fog lights.



Features

- Bypasses the vehicle's outage detection system to prevent error messages in board computers prompted by LED lamps with lower wattages
- Available for 4-5 W, 21 or 50 W
- Robust component

Benefits

- Easily clips onto wires
- Enjoy full benefits of your OSRAM LED retrofits and fog lights
- Original OSRAM accessory
- 3-year guarantee¹⁾



OSRAM LEDriving® CANBUS CONTROL UNIT product range¹)



Product Reference	Product Number	V	W			No.
LEDCBCTRL103	4052899 327375	12	50	2	10	-
LEDCBCTRL102	4052899 301993	12	21	2	10	-
LEDCBCTRL101	4052899 090873	12	5	2	10	-

¹⁾ Refer to www.osram.com/am-guarantee for precise conditions



LED STYLING LIGHTS

These automotive LED products allow anyone to create their own personal lighting ambience in a vehicle. Light is individually matched to personal preferences and purpose. Some products are controllable via remote or app for LED color changing options.





OSRAM LEDambient® CONNECT Light is pulsating

The LEDambient® CONNECT family offers you to individualize your vehicle's look. Simple to install and run, these innovative LED products use Bluetooth® technology. Once paired to the free LEDambient® CONNECT app, you can synchronize your music with up to 10 LEDambient® CONNECT systems to pulse to the same beat.

Features of PULSE CONNECT¹⁾²⁾

- Bluetooth® enabled small disk with chrome finish that blends-in with your headlight assembly, making it barely visible
- App-controlled color mode
- Shines in various colors (RGB) and back onto reflector and pulses to the beat of your music
- OSRAM quality
- Connects directly to the battery or 12 V source

Features of HYBRID CONNECT¹⁾²⁾

- Bluetooth® enabled discreet system that adds color to your fog lights
- App-controlled color mode
- Shines in various colors (RGB) and pulses to the beat of music
- OSRAM quality
- High-performance halogen lamps with up to 4,200 K and 20% more brightness

Features of TUNING LIGHTS CONNECT¹⁾

- Bluetooth® enabled and app-controlled flexible self-adhesive LED strips
- App-controlled color mode
- Shines in various colors (RGB) and pulses to the beat of your music
- OSRAM quality
- Universal for use on any vehicle

Benefits of PULSE CONNECT¹⁾²⁾

- Eye-catching color upgrade for your headlights
- Dimmable via free OSRAM LEDambient® CONNECT app
- Easy to install, mounts to outer headlight assembly surface
- 2-year guarantee³⁾
- No switch required, can be installed in the car interior as well

Benefits of HYBRID CONNECT¹⁾²⁾

- Easy to install by replacing your existing fog lamps
- Dimmable via free OSRAM LEDambient® CONNECT app
- Fills your reflector with color through the lamps
- 2-year guarantee³⁾
- Available as HB3. HB4 and H10

Benefits of TUNING LIGHTS CONNECT¹⁾

- Extension kit available
- Dimmable via free OSRAM LEDambient® CONNECT app
- Providing RGB styling to the interior of the vehicle
- 2-year guarantee³⁾
- Easy to install with no soldering or use of screws





Download the app www.osram.com/ledambient-app









OSRAM LEDambient® PULSE CONNECT product range

Product Reference	Product Number	V	COLOR			No.
LEDEXT101	4052899 408104	12	Multicolor	1	2	16 ^{P.130}
LEDINT103	4052899 408081	12	Multicolor	1	2	16 ^{P.130}

OSRAM LEDambient® HYBRID CONNECT product range

Product Reference	Product Number	V	W				No.
LEDEXT102-03	4052899 490581	12	60	P20d	1	2	17 ^{P.130}
LEDEXT102-04	4052899 490604	12	51	P22d	1	2	18 ^{P.130}
LEDEXT102-10	4052899 490628	12	42	PY20d	1	2	18 ^{P.130}

OSRAM LEDambient® TUNING LIGHTS CONNECT

Product Reference	Product Number	V	COLOR	KIT			No.
LEDINT102	4052899 451575	12	Multicolor	Base Kit	1	2	19 ^{P.130}
LEDINT104	4052899 474529	12	Multicolor	Extension Kit	1	2	20 ^{P.130}

¹⁾ These products do not have ECE approval. This means they must not be used on public roads in any exterior application. Use on public roads leads to cancellation of operating license and loss of insurance coverage. Several countries do not allow sale and use of these products. Please contact your local distributor for information on the availability in your country.

²⁾ Do not use while driving | 3) Refer to www.osram.com/am-guarantee for precise conditions

OSRAM LEDambient® Stylish interior ambient lighting

The LEDambient® interior lights enable you to illuminate every single corner of your car. The high brightness of the products combined with the intense color temperatures puts your car into a new light. The LED strips are rapidly and easily mounted.



Features of LEDambient® TUNING LIGHTS¹)

- Flexible 16-color LED strips with adhesive backing
- Providing RGB styling to the interior of the vehicle
- 24-button wireless remote control
- OSRAM quality
- Adapter included for auto accessory plug-in

Benefits of LEDambient® TUNING LIGHTS¹⁾

- 4 flashing modes
- Dimmable
- Compact device for user-friendly operation
- 2-year guarantee²⁾
- Extension kit available



Features of LEDambient® INTERIOR STRIP KIT¹⁾

- High brightness thanks to 90 LEDs per 1.5 m strip
- White light with color temperature up to 4500 K
- Two flexible self-adhesive LED strips of 1.5 m
- OSRAM quality
- Two strips per packaging, individually shortenable after every 3rd LED

Benefits of LEDambient® INTERIOR STRIP KIT¹)

- Illuminate every corner of your car, commercial vehicle or caravan
- Interior lighting for the vehicle roof, loading area, trunk or other cabinet lighting application
- Easy to install with no soldering or use of screws
- 2-year quarantee²⁾
- Individual length adjustment for various application purposes

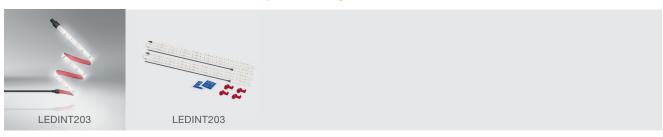


OSRAM LEDambient® TUNING LIGHTS product range



Product Reference	Product Number	V	COLOR	КІТ			No.
LEDINT201	4052899 933576	12	Multicolor	Base Kit	1	2	-
LEDINT201-SEC	4052899 248809	12	Multicolor	Base Kit	1	2	-
LEDINT2023)	4052899 933590	12	Multicolor	Extension Kit	1	2	_

OSRAM LEDambient® INTERIOR STRIP KIT product range



Product Reference	Product Number	V	COLOR	KIT			Q No.
LEDINT203	4052899 516670	12	White color	-	1	2	21 ^{P.130}

¹⁾ These products do not have ECE approval. This means they must not be used on public roads in any exterior application. Use on public roads leads to cancellation of operating license and loss of insurance coverage. Several countries do not allow sale and use of these products. Please contact your local distributor for information on the availability in your country.

²⁾ Refer to www.osram.com/am-guarantee for precise conditions | 3) Only works in combination with the base kit

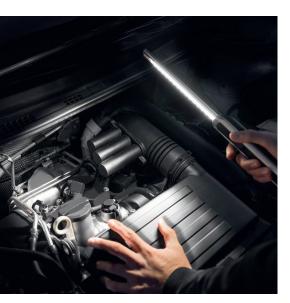
LED ACCESSORIES

LED inspection lights, reading lights for vehicle interior and safety lights are mobile helpers with strong lumen output. These highly practical, mobile, and energy-efficient light sources are based on LED technology, enhanced by handy, ergonomic – and even elegant – designs to improve the daily work and life. OSRAM Light range 2018/2019 - Vehicle lamps



OSRAM LEDinspect® PRO Essential to your garage

A full line of premium inspection lights, specially-developed for the complex maintenance and repairs you tackle every day, reinvents light, turning it into a functional tool for your garage. LEDinspect® PRO enhances visibility with advanced LEDs that deliver exceptional luminosity. Each unique light design reflects an understanding of professional applications and supplies light precisely where you need it. Many lights include features, such as magnets, clips, hooks, torches, and extensions to direct light and give you hands-free options.



Features of SLIMLINE 500 (LEDIL108)

- Luminance: 500 lm and 250 lm (2 lighting settings)
- Battery status display
- Magnetic with protection class: IP42, IK07
- Premium OSRAM quality with slim premium design (aluminium)
- Long lifetime thanks to powerful long-lasting LEDs

Benefits of SLIMLINE 500 (LEDIL108)

- Excellent illumination for all types of professional inspection and maintenance
- Rechargeable 3.6 V 2,600 mAh
 Li-ion battery, charge via USB port
 DC/AC (with charging cable)
- Flexible mounting possibilities as well as very dirt-resistant
- 3-year guarantee¹⁾
- More durability due to LED technology for a very long service life



Features of POCKET 280 (LEDIL107)

- Luminance: 280 lm (high),70 lm (low)
- Battery status display
- Magnetic with hook and protection class: IP20
- Premium OSRAM quality with compact and premium design (aluminium)
- Long lifetime thanks to powerful long-lasting LEDs

Benefits of POCKET 280 (LEDIL107)

- Excellent illumination for all types of professional inspection and maintenance
- Rechargeable 3.7 V 2,000 mAh Li-Polymer battery, charge via USB port & DC/AC (with charging cable)
- Flexible mounting possibilities as well as very dirt-resistant
- 3-year guarantee¹⁾
- More durability due to LED technology for a very long service life

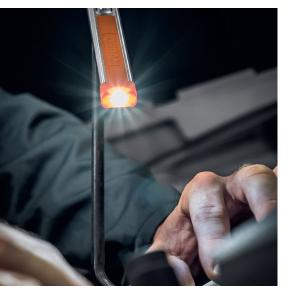


Features of PENLIGHT 150 UV-A (LEDIL106)

- Luminance: 150 lm (high),
 UV light (low)
- Battery status display
- Magnetic with clip and protection class: IP20
- Premium OSRAM quality with compact design (aluminium)
- Long lifetime thanks to powerful long-lasting LEDs

Benefits of PENLIGHT 150 UV-A (LEDIL106)

- Excellent illumination by identifying leaks in the air condition thanks to integrated UV light
- Rechargeable 800 mAh Li-Polymer battery, charge via USB port & DC/AC (with charging cable)
- Flexible mounting possibilities as well as very dirt-resistant
- 3-year guarantee¹⁾
- More durability due to LED technology for a very long service life



Features of PENLIGHT 150 (LEDIL105)

- Luminance: 150 lm (high), 35 lm (low)
- Battery status display
- Magnetic with clip and protection class: IP20
- Premium OSRAM quality with compact design (aluminium)
- Long lifetime thanks to powerful long-lasting LEDs

Benefits of PENLIGHT 150 (LEDIL105)

- Excellent illumination for all types of professional inspection and maintenance
- Rechargeable 800 mAh Li-Polymer battery, charge via USB port & DC/AC (with charging cable)
- Flexible mounting possibilities as well as very dirt-resistant
- 3-year guarantee¹⁾
- More durability due to LED technology for a very long service life

¹⁾ Refer to www.osram.com/am-guarantee for precise conditions



Features of BONNET 1400 (LEDIL104)

- Luminance: 1400 lm
- Operable via 5 m cable and adjustable telescopic mounting bracket
- Protection class: IP65, IK06
- Premium OSRAM quality with ultra-slim design
- Long lifetime thanks to powerful long-lasting LEDs

Benefits of BONNET 1400 (LEDIL104)

- Excellent illumination for all types of professional inspection and maintenance
- Flexible working for mounting under the hood of the vehicle or with integrated hook
- Easy-to-grip and dirt-resistant surface
- 3-year guarantee¹⁾
- More durability due to LED technology for a very long service life



Features of SLIMLINE 280 (LEDIL103)

- Luminance: 280 lm (high),70 lm (low)
- Battery status display
- Protection class: IP42 / IK06
- Premium OSRAM quality with slim design
- Long lifetime thanks to powerful long-lasting LEDs

Benefits of SLIMLINE 280 (LEDIL103)

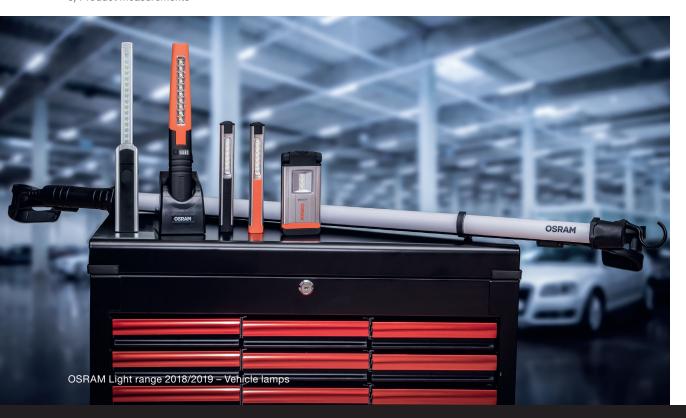
- Excellent illumination for all types of professional inspection and maintenance
- Rechargeable 2,000 mAhLi-ion battery, charge via USB port & DC/AC (with charging cable)
- Easy-to-grip and dirt-resistant surface
- 3-year guarantee¹⁾
- More durability due to LED technology for a very long service life



OSRAM LEDinspect® PRO product range

Product Reference	Product Number	V	W	lm	lx	K	[mm] 3)	W [mm] 3)	h [mm] 3)		4	No.
LEDIL108	4052899 559349	3.6	6	500/250	900/4502)	6000	346	44	24	1	4	27 ^{P.130}
LEDIL107	4052899 963863	3.7	1	280/70	480/500 ²⁾	6000	133	64	17	1	4	26 ^{P.130}
LEDIL106	4052899 963849	3.7	0.5	150/UVA	3002)	6000	177	23	14	1	4	25 ^{P.130}
LEDIL105	4052899 963825	3.7	0.5	150/35	300/1002)	6000	177	23	14	1	4	24 ^{P.130}
LEDIL104	4052899 970632	220	13-15	1.400	9002)	6000	1104	50	50	1	4	23 ^{P.130}
LEDIL103	4052899 327351	3.4	3.5	280	500 ²⁾	6000	285	37	26	1	4	22 ^{P.130}

- 1) Refer to www.osram.com/am-guarantee for precise conditions
- 2) Up to
- 3) Product measurements



OSRAM LEDinspect® Essential to your DIY toolbox

LEDinspect® simplifies DIY projects – specially-developed for maintaining and repairing vehicles, transforms light from an afterthought into a functional tool. The design of each lamp takes into account how the light is used and includes different extra features, such as magnets, clips, hooks, and rotatable heads, all housed in perfectly-sized packages and various light settings to ease work.



Features of HEADLAMP 300 (LEDIL209)

- Luminance: 300 lm (100%),
 60 lm (20%)
- Protection class: IP64, IK07
- Works with three AA batteries (included)
- Headlamp with 75% angle adjustment
- Increased lifetime thanks to long-lasting LEDs

Benefits of HEADLAMP 300 (LEDIL209)

- Multifunctional headlamp with zooming effect, flashing option and red warning light for higher visibility on the back
- Easy-to-grip and dirt-resistant surface
- Immediate usage after purchase for hand-free working thanks to head fixing (size adjustable)
- 2-year guarantee¹⁾
- More durability due to LED technology for a long service life

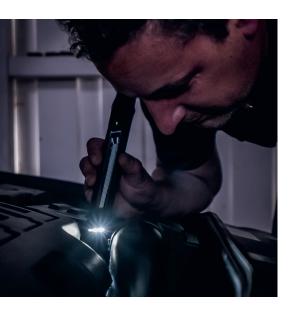


Features of PROFESSIONAL 150 (LEDIL207)

- Luminance: 150 lm (high),70 lm (low)
- Magnetic with clip, rotatable hook and protection class: IP44, IK06
- Rechargeable 3.7 V 2,000mAh
 Li-ion battery
- OSRAM quality in handy and compact design with multifunctional features
- Increased lifetime thanks to long-lasting LEDs

Benefits of PROFESSIONAL 150 (LEDIL207)

- Ideal illumination for all types of inspection and maintenance
- Flexible mounting possibilities as well as dirt-resistant
- Easy charge via USB port & DC/AC (with charging cable)
- 2-vear quarantee¹⁾
- More durability due to LED technology for a long service life



Features of SLIMLINE 250 (LEDIL206)

- Luminance: 250 lm (high), 30 lm (low)
- Magnetic with protection class: IP44, IP07
- Rechargeable 3.7 V 2,600mAh
 Li-ion battery
- OSRAM quality in light slim design
- Increased lifetime thanks to long-lasting LEDs

Benefits of SLIMLINE 250 (LEDIL206)

- Ideal illumination for all types of inspection and maintenance
- Flexible mounting possibilities as well as dirt-resistant
- Easy charge via USB port & DC/AC (with charging cable)
- 2-year guarantee1)
- More durability due to LED technology for a long service life



Features of FLASHLIGHT 15 (LEDIL205)

- Luminance: 15 lm
- Protection class: IK07
- Rechargeable 3.6 V 80 mAh Ni-Mh
- OSRAM quality in small and compact design (pink & black available)
- Increased lifetime thanks to long-lasting LEDs

Benefits of FLASHLIGHT 15 (LEDIL205)

- Ideal illumination for all types of inspection and maintenance
- Easy-to-grip and dirt-resistant surface
- Easy charge via 12 V cigarette lighter
- 2-year guarantee¹⁾
- More durability due to LED technology for a long service life



Features of POCKET 160 (LEDIL204)

- Luminance: 160 lm (high),75 lm (low)
- Magnetic with hook, clip and protection class: IP44, IK07
- Rechargeable 3.7 V 1,500 mAh Li-ion battery
- OSRAM quality in small and compact design with multifunctional features
- Increased lifetime thanks to long-lasting LEDs

Benefits of POCKET 160 (LEDIL204)

- Ideal illumination for all types of inspection and maintenance
- Flexible mounting possibilities as well as dirt-resistant
- Easy charge via USB port & DC/AC (with charging cable)
- 2-year guarantee1)
- More durability due to LED technology for a long service life

¹⁾ Refer to www.osram.com/am-guarantee for precise conditions



Features of PENLIGHT 80 (LEDIL203)

- Luminance: 80 lm (high)
- Magnetic with clip and protection class: IP20, IK06
- Works with three AAA batteries (included)
- OSRAM quality in small and compact design with multifunctional features
- Increased lifetime thanks to long-lasting LEDs

Benefits of PENLIGHT 80 (LEDIL203)

- Ideal illumination for all types of inspection and maintenance
- Flexible mounting possibilities as well as dirt-resistant
- Immediate usage after purchase
- 2-year guarantee1)
- More durability due to LED technology for a long service life



Features of MINI 125 (LEDIL202)

- Luminance: 125 lm (high), 90 lm (low)
- Magnetic with hook and protection class: IP44, IK07
- Works with three AAA batteries (included)
- OSRAM quality in small and compact design with multifunctional features
- Increased lifetime thanks to long-lasting LEDs

Benefits of MINI 125 (LEDIL202)

- Ideal illumination for all types of inspection and maintenance
- Flexible mounting possibilities as well as dirt-resistant
- Immediate usage after purchase
- 2-year guarantee¹⁾
- More durability due to LED technology for a long service life



Features of FOLDABLE 80 (LEDIL201)

- Luminance: 80 lm (high),25 lm (low)
- Magnetic with hook and protection class: IP44, IK07
- Battery status display
- OSRAM quality with compact and foldable design
- Increased lifetime thanks to long-lasting LEDs

Benefits of FOLDABLE 80 (LEDIL201)

- Ideal illumination for all types of inspection and maintenance
- Flexible mounting possibilities as well as dirt-resistant
- Rechargeable Ni-Mh 3.6 V 1600 mAh battery (charging via 220 V adapter and 12 V cigarette lighter)
- 2-year guarantee¹⁾
- More durability due to LED technology for a long service life







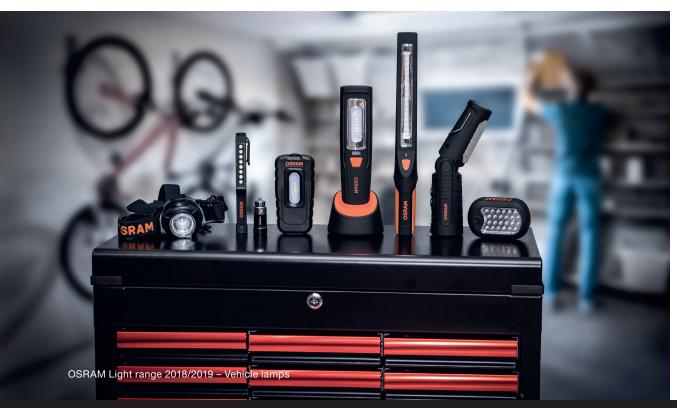




OSRAM LEDinspect® product range

Product Reference	Product Number	V	W	lm	lx	K	[mm] 4)	W (mm) 4)	↑ h [mm]		4	No.
LEDIL209	4052899 425033	4.5	3	300/60	272/432)	7000	90	89	68	1	4	35 ^{P.131}
LEDIL207	4052899 425019	3.7	3	150/70	58/217 ²⁾	7000	210	52	40	1	4	34 ^{P.131}
LEDIL206	4052899 424999	3.7	3	250/30	96/202)	7000	320	39	25	1	4	33 ^{P.131}
LEDIL205-BK	(PK ³⁾ 4052899 540477	3.6	0.5	15	56 ²⁾	7000	61	22.5	-	-	4	32 ^{P.131}
LEDIL205-PK	4052899 539006	3.6	0.5	15	56 ²⁾	7000	61	22.5	-	1	10	32 ^{P.131}
LEDIL205	4052899 424951	3.6	0.5	15	56 ²⁾	7000	61	22.5	-	1	10	32 ^{P.131}
LEDIL204	4052899 424975	3.7	0.5	160/75	70/302)	7000	127	63	34	1	4	31 ^{P.131}
LEDIL203	4052899 275607	4.5	1.5	80	2502)	7000	160	16	32	1	12	30 ^{P.131}
LEDIL202	4052899 009578	4.5	1.6	125/90	1200 ²⁾	6000	98	63	35	1	24	29 ^{P.131}
LEDIL201	4052899 009592	4.5	1.5	80/25	2000 ²⁾	6000	220	46	51	1	10	28 ^{P.131}

1) Refer to www.osram.com/am-guarantee for precise conditions | 2) Up to | 3) Pink & black assortment | 4) Product measurements



OSRAM LEDguardian® warning lights Prepared for serious situations

Two lights that should accompany every situation. ROAD FLARE is a powerful emergency flare, for signaling serious situations and improving visibility. SAVER LIGHT is a multifunctional torch that includes a seat-belt cutter, life hammer and flashing LED warning lights.



Features of LEDguardian® ROAD FLARE¹⁾

- Multifunctional LED warning light with rotating amber light (two modes flashing & continuous-on) and white torch light
- Magnetic with protection class: IP20
- Works with three AAA batteries (included)
- OSRAM quality
- Increased lifetime thanks to long-lasting LEDs

Benefits of LEDguardian® ROAD FLARE¹⁾

- See and be seen in emergency situations with up to 240 m distance
- Flexible mounting on various surfaces and crush-proof – doesn't break even when run over by a car³⁾
- Immediate usage after purchase
- 2-year guarantee²⁾
- More durability due to LED technology for a long service life



Features of LEDguardian® SAVER LIGHT PLUS¹)

- Multifunctional LED warning light with two light functions (amber flashing and white torch light)
- Emergency light with seat-belt cutter and emergency hammer
- Magnetic with holder and protection class: IP44, IK07
- OSRAM quality
- Increased lifetime thanks to long-lasting LEDs
- Works with three AAA batteries (included)

Benefits of LEDguardian® SAVER LIGHT PLUS¹⁾

- Be prepared for serious situations, thanks to high quality, long lasting LEDs
- Getting out by smashing the window or cutting the seat-belt
- Flexible mounting possibilities as well as dirt-resistant
- 2-year guarantee²⁾
- More durability due to LED technology for a long service life





OSRAM LEDguardian® ROAD FLARE

Product Reference	Product Number	V	W	COLOR	1 (mm) 4)	w (mm) 4)	h [mm] 4)			Q No.
LEDSL302	4052899 184053	4.5	0.5	Amber/White	110	42	-	1	24	36 ^{P.131}

OSRAM LEDguardian® SAVER LIGHT PLUS

Product Reference	Product Number	V	W	COLOR	[mm] 4)	(mm) 4)	↑ h [mm]			No.
LEDSL101	4052899 132344	3	1.7	Amber/White	180	63	53	1	6	37 ^{P.131}

¹⁾ Not approved as warning light according to German Road Traffic Licensing Regulations (StVZO). Not for sale in Germany.

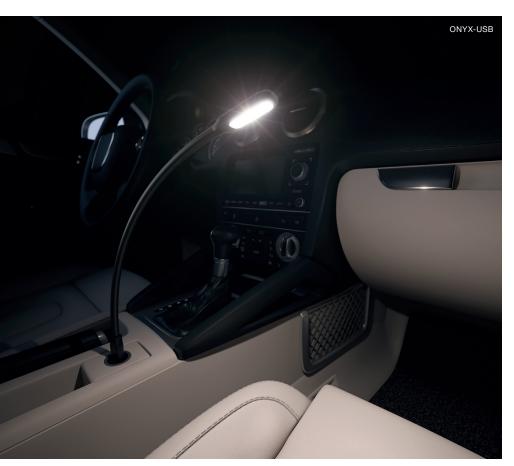
²⁾ Refer to www.osram.com/am-guarantee for precise conditions

³⁾ Tested in a mid-range car at walking pace

⁴⁾ Product measurements

OSRAM ONYX COPILOT® Good light for a good ride

OSRAM ONYX COPILOT® is a flexible LED reading light that emits a pleasantly warm, glare-free light. With an appealing black design, the ONYX COPILOT® is available in three versions: ONYX-USB with USB plug in, ONYX M-7 is powered via cigarette lighter, ONYX L-7 comes with a plastic base for fixed connection.



Features

- Bright LED reading light for vehicle interior, 12 V & 24 V compatible
- Individual adjustment thanks to bendable neck
- Different plug-in ports (cigarette lighter, USB port, fix mounting) available
- Service life (LED): up to 20,000 h
- High protection class

Benefits

- Pleasant warm and glare-free LED light
- Light can be switched on/off and remain connected permanently
- Provides simple installation
- Two-year guarantee¹⁾
- Pleasantly look and feel, easy to grip and dirt-resistant surface







OSRAM LED ONYX COPILOT® product range



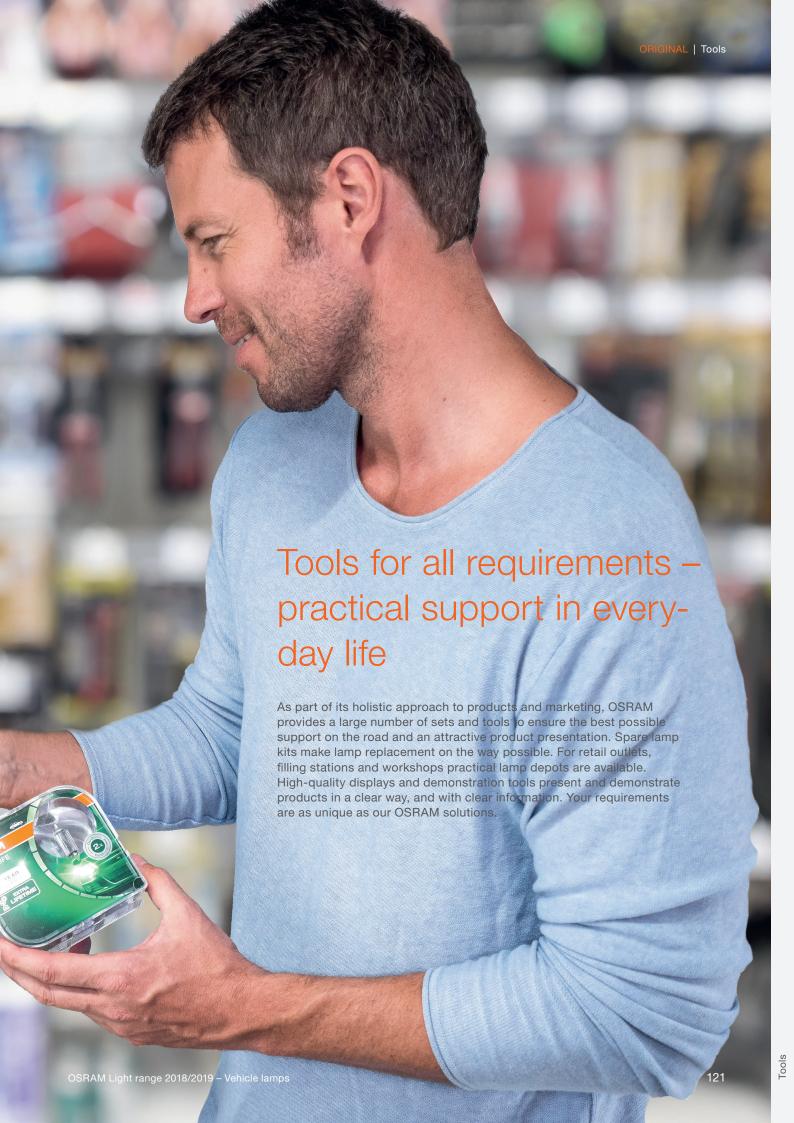
Product Reference	Product Number	V	W	lx	K	[mm] 3)	W 3) [mm]	↑ h [mm]		4	Q No.
ONYX-USB	4052899 601000	12/24	0.5	20	3200	370 ²⁾	25	9	1	4	38 ^{P.131}
ONYX M-7	4052899 077270	12/24	0.5	20	3200	370 ²⁾	25	9	1	4	39 ^{P.131}
ONYX L-7	4052899 414938	12/24	0.5	20	3200	370 ²⁾	25	9	1	4	40 ^{P.131}

¹⁾ Refer to www.osram.com/am-guarantee for precise conditions

²⁾ Not overall length of product

³⁾ Product measurements





OSRAM workshop helpers Practical at work and for the POS

The easy-to-use Shelf Rack provides space for the most important passenger car or truck lamps from OSRAM. The robust assortment box allows quick, mobile access to the most frequently required MINIWATT® lamps for passenger cars. Last but not least, the Automotive Lamp Cabinet offers clear and easy access to the OSRAM 12 volt or 24 volt product range.



Main benefits of Automotive Lamp Cabinet

- Clear lamp arrangement
- Slot system for easy removal
- Drawers for additional lamps
- Lamp tester optionally available
- Available with or without lock

Main benefits of Shelf Rack

- 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

Main benefits of MINIWATT® 12 V assortment box

- 18 different MINIWATT® 12 V lamps for passenger cars (total of 180 lamps), highlighted in color
- Equipment overview with the most important technical data directly in the box

¹⁾ We are happy to provide you with a proposal of stock. Please contact your local representative.

OSRAM Automotive Lamp Cabinet



Product Reference	Product Number	Dimensions (WxHxD)	
ALC without ¹⁾	4008321 694355	405 x 572 x 190 mm	
ALC with lock ¹⁾	4008321 694362	405 x 572 x 190 mm	
Lamp tester 50X1	4008321 786951	-	

OSRAM Shelf Rack



Product Reference	Product Number	Dimensions (WxHxD)
SHELF RACK	4008321 211248	920 x 900 x 580 mm

OSRAM MINIWATT® 12 V



Product Reference	Product Number	Dimensions (WxHxD)	Contents	4
509961	4008321 082169	240 x 43 x 190 mm	180 lamps	3

OSRAM Automotive demo tools Boost your customer's sales experience

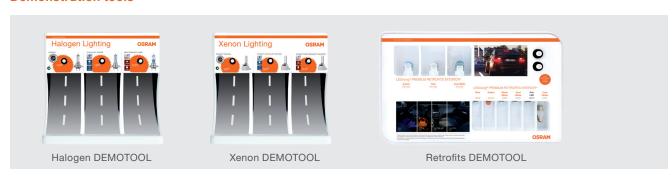
Various types of OSRAM Automotive demo tools provide customers with opportunities to experience the wide range of product technologies at the point of sale. These tools not only portray all USPs but also allow your customer to test and compare different technologies, find the right product more easily and thus increase your sale.



Main benefits of OSRAM demo tools

- Demonstrates multiple technologies
- Enables direct product comparison
- Test-me feature
- Real-life experience
- Easy to handle

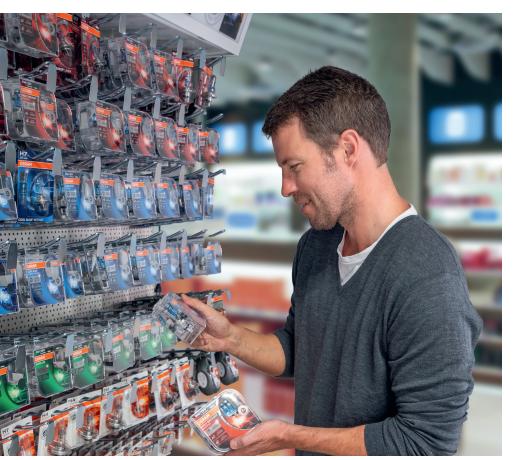
Demonstration tools



Product Reference	Product Number	Dimensions (WxHxD)
Halogen DEMOTOOL	4052899 323070	345 x 325 x 270 mm
Xenon DEMOTOOL	4052899 323063	345 x 325 x 270 mm
Retrofit DEMOTOOL	4052899 579712	365 x 225 x 75 mm

OSRAM polePOSition® & displays Convincing product presentation

Attract customer attention with OSRAM's eye-catching instore solutions portfolio. From secondary placements up to a brand new shelf system, OSRAM's range of assortments stands out and shows all products at a glance. With the perfect tool for every type of merchandising solution you may need, OSRAM is your ideal partner.



Main benefits of OSRAM Automotive polePOSition®

- Ideal and innovative construction mirroring the OSRAM portfolio segmentation
- Flexible, modern design for easy adaptation
- High-quality and extremely convenient presentation system
- Variable construction according to every store's requirements

Main benefits of OSRAM displays

- Perfect product presentation
- Compact and eye-catching design
- High-quality and practical construction

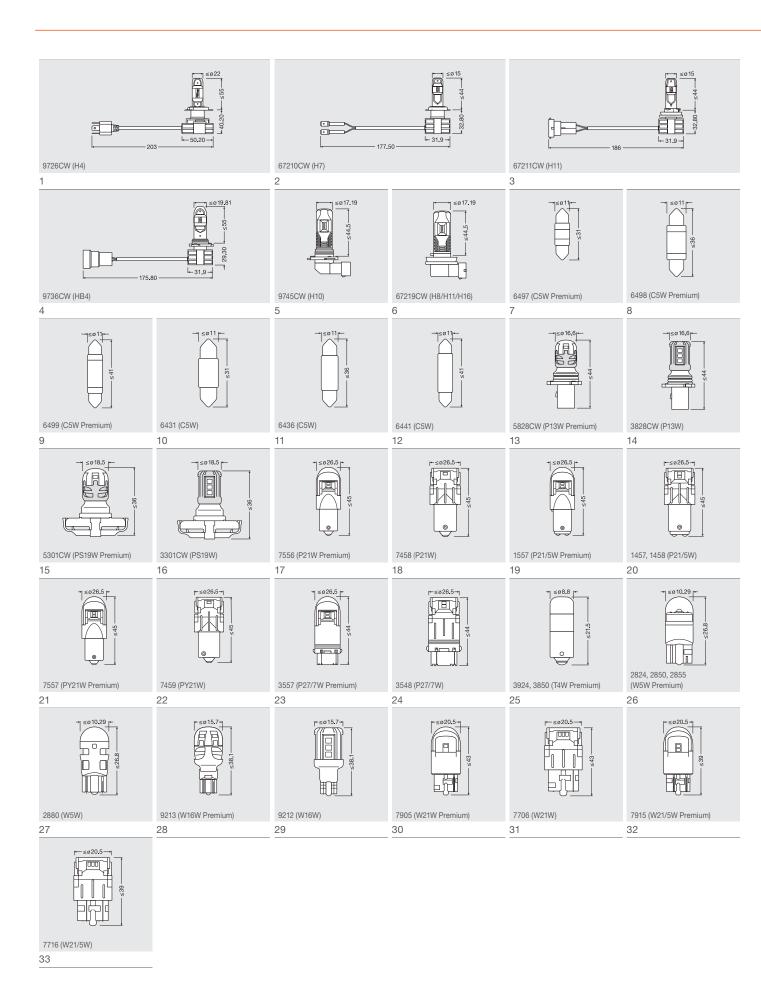
Automotive polePOSition® and Presentation Tools

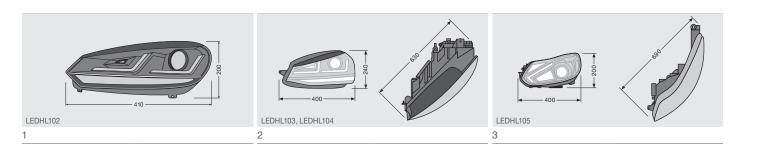


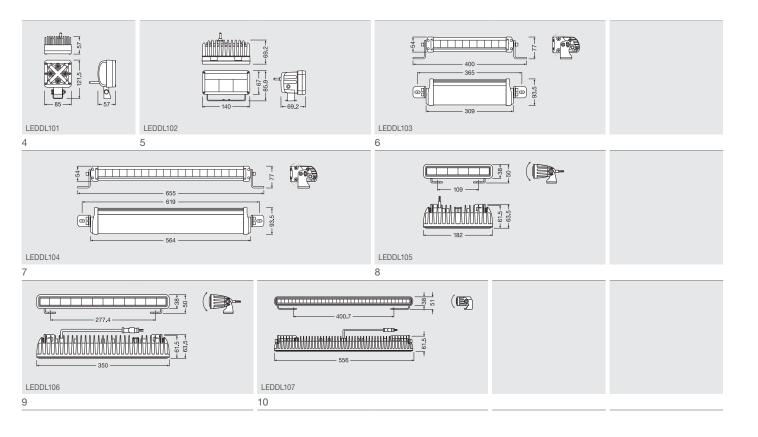
Product Reference	Product Number	Dimensions (WxHxD)	Content
Revolving Counter Display	4052899 545663	510 x 308 x 285 mm	-
Revolving Floor Display	4052899 545717	1540 x 455 x 385 mm	-
Header with illumination – 1.0m	4052899 518384	186 x 444 x 996 mm	
Header with illumination – 1.5m	4052899 518391	186 x 444 x 1246 mm	-
Header without illumination - 0.9m	4052899 518421	45 x 470 x 896 mm	-
Header without illumination - 1.0m	4052899 518407	45 x 470 x 996 mm	-
Header without illumination – 1.25m	4052899 518414	45 x 470 x 1246 mm	
Orange Frame	4052899 518445	175 x 950 x 475 mm	-

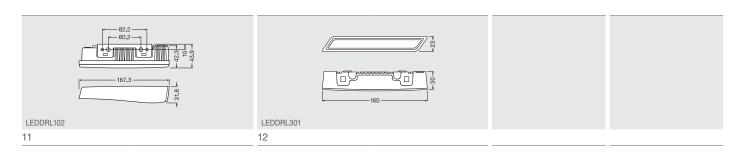


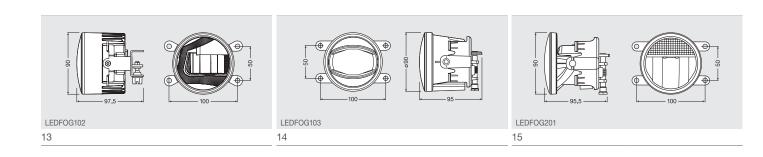
Please contact your responsible account manager if you are interested in our OSRAM Automotive polePOSition® and the new display designs. All order numbers of the individual elements can be found in the table above.

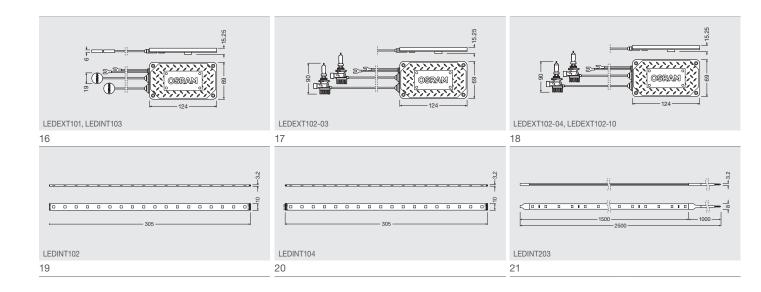


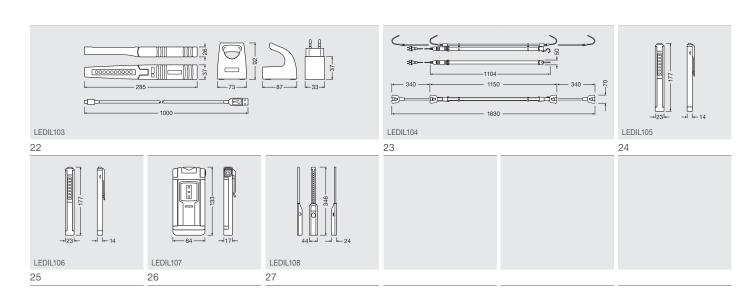


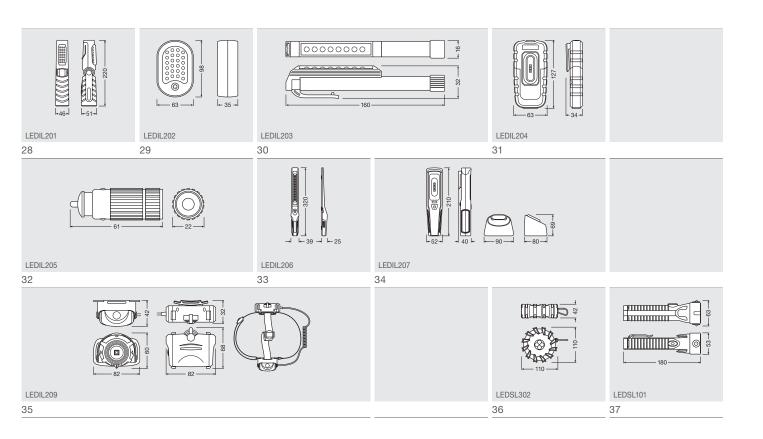


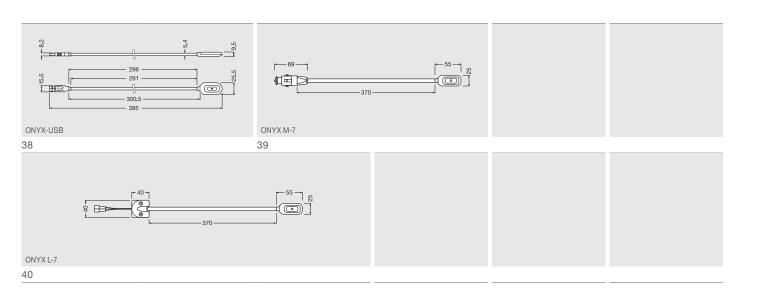


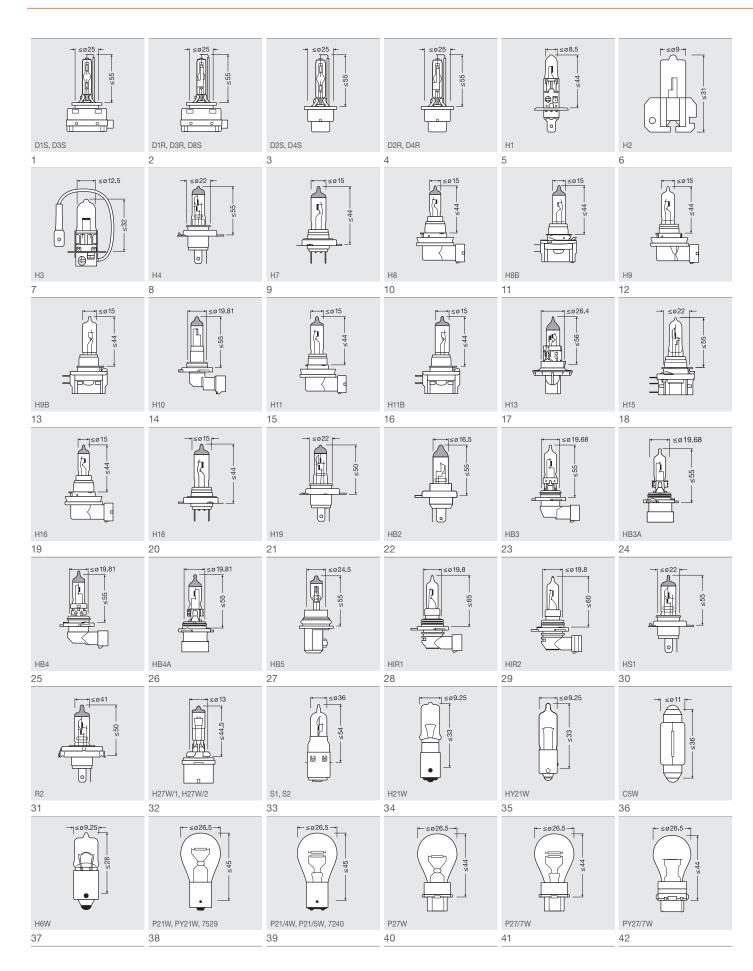


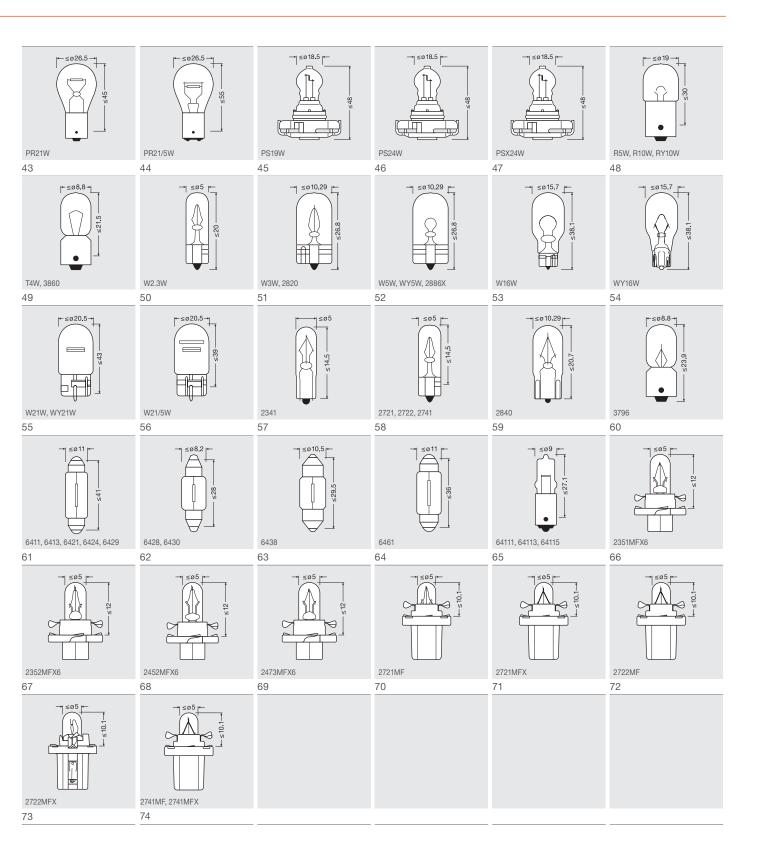




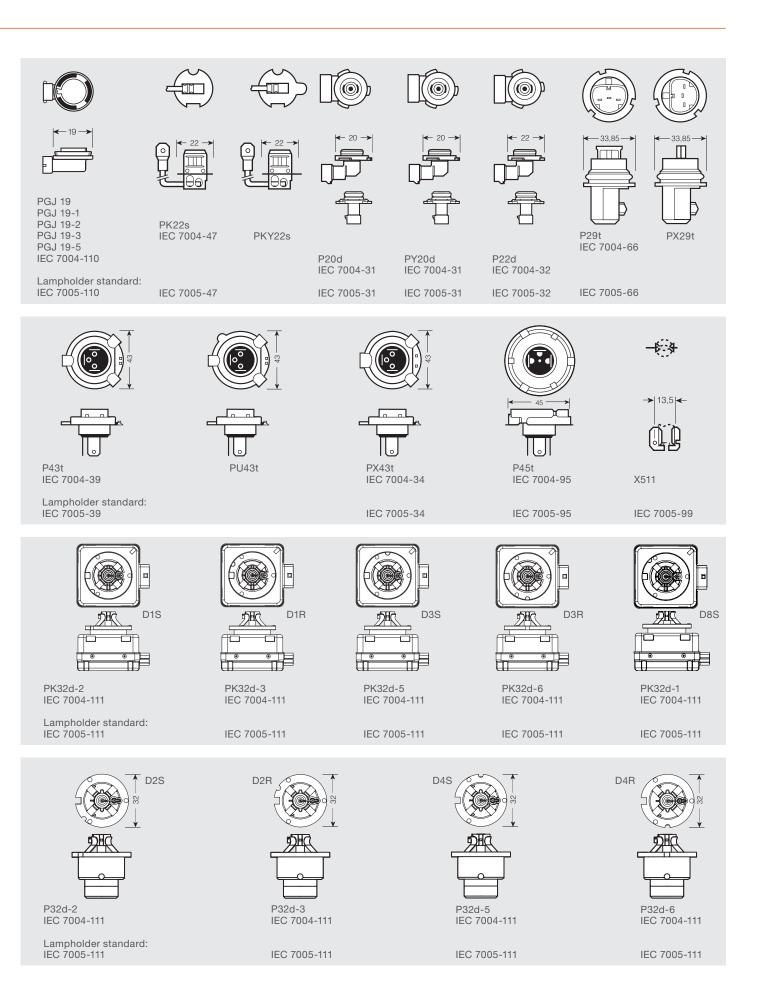












Type overview by ECE/SAE category

ECE	٧	W		Product Reference		ECE	V	W		Product Reference	
_	12	5	-	LEDCBCTRL101	P.98	_	4.5	0.5	-	LEDIL205-PK	P.112
-	12	21	-	LEDCBCTRL102	P.98	-	4.5	0.5	-	LEDIL205-BKPK	P.112
-	12	50	-	LEDCBCTRL103	P.98	-	4.5	3	-	LEDIL206	P.112
-	12	22/2	-	LEDDL101-SP	P.90	-	4.5	3	-	LEDIL207	P.112
-	12	22/2	-	LEDDL101-WD	P.90	-	4.5	3	-	LEDIL209	P.112
-	12/24	30/2	-	LEDDL102-SP	P.90	-	12	-	-	LEDINT102	P.102
-	12/24	30/2	-	LEDDL102-WD	P.90	-	12	-	-	LEDINT103	P.102
-	12/24	35	-	LEDDL103-SP	P.90	-	12	-	-	LEDINT104	P.102
-	12/24	35	-	LEDDL103-CB	P.90	-	12	-	-	LEDINT201	P.104
-	12/24	33	-	LEDDL104-SP	P.90	-	12	-	-	LEDINT202	P.104
-	12/24	70	-	LEDDL104-CB	P.90	-	12	-	-	LEDINT201-SEC	P.104
-	12/24	14	-	LEDDL105-SP	P.90	-	12	-	-	LEDINT203	P.104
-	12/24	29	-	LEDDL106-SP	P.90	-	3	1.7	-	LEDSL101	P.116
-	12/24	46	-	LEDDL107-SP	P.90	-	4.5	0.5	-	LEDSL302	P.116
-	12	15	-	LEDDRL102	P.92	-	12/24	0.5	-	ONYX L-7	P.118
-	12	13.5	-	LEDDRL301 CL15	P.92	-	12/24	0.5	-	ONYX M-7	P.118
-	12	-	-	LEDEXT101	P.102	-	12/24	0.5	-	ONYX USB	P.118
-	12	42	-	LEDEXT102-10	P.102	-	12	2/0.4	BAY15d	1458CW ¹⁾	P.26
-	12	51	-	LEDEXT102-04	P.102	-	12	2/0.4	BAY15d	1458R ¹⁾	P.26
-	12	60	-	LEDEXT102-03	P.102	-	12	2/0.4	BAY15d	1457YE ¹⁾	P.26
-	12/24	7/12	-	LEDF0G102	P.94	-	12	2/0.4	BAY15d	1557CW ¹⁾	P.26
-	-	-	-	LEDF0G101-VW-M	P.94	-	12	2/0.4	BAY15d	1557R ¹⁾	P.26
-	-	-	-	LEDF0G101-NIS-M	P.94	-	12	2/0.4	BAY15d	1557YE ¹⁾	P.26
-	-	-	-	LEDFOG101-INF-M	P.94	-	12	1.2	BX8.4d	2351MFX6	P.59
-	-	-	-	LEDF0G101-TY-M	P.94	-	12	2	BX8.4d	2352MFX6	P.59
-	12	4/12	-	LEDF0G103-SR	P.96	-	12	1.5	BX8.4d	2452MFX6	P.59
-	12	4/12	-	LEDF0G103-BL	P.96	-	12	1.12	BX8.4d	2473MFX6	P.59
-	12	8	-	LEDF0G201	P.96	-	12	1.2	W2x4.6d	2721	P.58
-	-	-	-	F0G103/201-TY-M	P.96	-	12	1.2	B8.5d	2721MF	P.59
	-	-	-	F0G103/201-VW-M	P.96		12	1.2	BX8.5d	2721MFX	P.59
-	-	-	-	F0G103/201-NIS-M	P.96		12	2	W2x4.6d	2722	P.58
-	12	70	-	LEDHL102-BK	P.88	-	12	2	B8.5d	2722MF	P.59
-	12	70	-	LEDHL102-BK RHD	P.88	-	12	2	BX8.5d	2722MFX	P.59
-	12	70	-	LEDHL102-CM	P.88	-	12	2	W2.1x9.5d	2820	P.58
-	12	70	-	LEDHL102-GTI	P.88	-	12	1	W2.1x9.5d	2850BL ¹⁾	P.28
-	12	70	-	LEDHL103-GTI	P.86	-	12	1	W2.1x9.5d	2850CW ¹⁾	P.28
-	12	70	-	LEDHL103-BK	P.86	-	12	1	W2.1x9.5d	2850WW ¹⁾	P.28
-	12	70	-	LEDHL103-CM	P.86	-	12	1	W2.1x9.5d	2855YE ¹⁾	P.28
-	12	70	-	LEDHL104-GTI	P.86	-	12	1	W2.1x9.5d	2880BL ¹⁾	P.28
-	12	70	-	LEDHL104-BK	P.86	-	12	1	W2.1x9.5d	2880CW ¹⁾	P.28
-	12	70	-	LEDHL104-CM	P.86	-	12	1	W2.1x9.5d	2880R ¹⁾	P.28
-	12	70	-	LEDHL105	P.88	-	12	1	W2.1x9.5d	2880YE ¹⁾	P.28
-	3.4	3.5	-	LEDIL103	P.110	-	12	1	W2.1x9.5d	2880GR ¹⁾	P.28
-	220	13-15	-	LEDIL104	P.110	-	12	6	W2.1x9.5d	2886X	P.58
-	3.7	0.5	-	LEDIL105	P.108	-	12	1.8	PG20-1	3301CW ¹⁾	P.26
-	3.7	0.5	-	LEDIL106	P.108	-	12	1.8	PG18.5d-1	3828CW ¹⁾	P.26
-	3.7	1	-	LEDIL107	P.108	-	12	1.9	W2.5x9.5d	3548YE ¹⁾	P.26
-	3.6	6	-	LEDIL108	P.108		12	1.7	W2.5x9.5d	3548CW ¹⁾	P.26
-	4.5	1.5	-	LEDIL201	P.114	-	12	1.7	W2.5x9.5d	3548R ¹⁾	P.26
-	4.5	1.6	-	LEDIL202	P.114	-	12		W2.5x16q	3557CW ¹⁾	P.26
-	4.5	1.5	-	LEDIL203	P.114	-	12		W2.5x16q	3557R ¹⁾	P.26
	4.5	0.5	-	LEDIL204	P.112		12		W2.5x16q	3557YE¹)	P.26
	4.5	0.5	-	LEDIL205	P.112	-	12	2	BA9s	3796	P.58

ECE	V	W		Product Reference		ECE	V	W		Product Reference	
_	12	1	BA9s	3850CW ¹⁾	P.28	-	12	5	BA9s	64115	P.59
-	12	1	BA9s	3850WW ¹⁾	P.28	-	12	100/90	P43t	62193CBB ¹⁾	P.82
-	12	5	BA9s	3860	P.58	-	12	100	P14.5s	62200SBP1)	P.80
-	12	3	PG20-1	5301CW ¹⁾	P.26	-	12	100	PK22s	62201SBP1)	P.80
-	12	3	PG18.5d-1	5828CW ¹⁾	P.26	-	12	100/90	P43t	62204SBP1)	P.80
-	12	10	SV8.5-8	6411	P.59	-	12	80	PX26d	62210CBB ¹⁾	P.82
-	12	5	SV8.5-8	6413	P.59	-	12	75	PGJ19-2	62211CBB ¹⁾	P.82
-	12	3	SV7-8	6428	P.59	-	12	75	PGJ19-5	62213CBB ¹⁾	P.82
-	12	10	SV8.5-8	6438	P.59	-	12	80	PX26d	62261SBP1)	P.80
-	12	10	SV8.5-8	6461	P.59	-	12	100	PX14.5s	64152SB ¹⁾	P.80
-	12	0.5	SV8.5-8	6431CW ¹⁾	P.28	-	12	100	PKX22s	64153SB ¹⁾	P.80
-	12	0.5	SV8.5-8	6431BL ¹⁾	P.28	-	12	100/90	PU43t	64194SB ¹⁾	P.80
_	12	0.5	SV8.5-8	6436CW ¹⁾	P.28	_	12	60/55	P45t	64198SB ¹⁾	P.80
-	12	0.5	SV8.5-8	6436BL ¹⁾	P.28	-	12	100/90	P45t	64204SB ¹⁾	P.80
	12	0.5	SV8.5-8	6441CW ¹⁾	P.28	-	12/24	35	PK32d-2	66140CBB ¹⁾	P.82
-	12	0.5	SV8.5-8	6441BL ¹⁾	P.28	-	12/24	35	P32d-2	66240CBB ¹⁾	P.82
	12	1	SV8.5-8	6497CW ¹⁾	P.28		12/24	35	PK32d-5	66340CBB ¹⁾	P.82
-	12	1	SV8.5-8	6497WW ¹⁾	P.28	-	12/24	35	P32d-5	66440CBB ¹⁾	P.82
-	12	1	SV8.5-8	6498CW ¹⁾	P.28	-	12	-	PX26d	67210CW	P.22
-	12	1	SV8.5-8	6498WW ¹⁾	P.28	-	12	-	PGJ19-2	67211CW	P.22
-	12	1	SV8.5-8	6499CW ¹⁾	P.28	-	12	13	PGJ19	67219CW	P.24
-	12	1	SV8.5-8	6499WW ¹⁾	P.28	-	12	100	P20d	69005SBP ¹⁾	P.80
-	12	6	SV8.5-8	6486X	P.59	-	12	100	P20d	69005CBB ¹⁾	P.82
-	12	21/5	BA15d	7240	P.58	-	12	80	P22d	69006SBP ¹⁾	P.80
	12	1.4	BA15s	7458CW ¹⁾	P.26	-	12	80	P22d	69006CBB ¹⁾	P.82
-	12	1.4	BA15s	7458R ¹⁾	P.26	-	24	1	W2x4.6d	2341	P.74
-	12	1.3	BA15s	7458YE ¹⁾	P.26	-	24	1.2	W2x4.6d	2741	P.74
	12	1.3	BAU15s	7459YE ¹⁾	P.26		24	1.2	B8.5d	2741MF	P.74
	12	2	BA15s	7556CW ¹⁾	P.26	-	24	1.2	BX8.5d	2741MFX	P.74
	12	2	BA15s	7556R ¹⁾	P.26		24	1	W2.1x9.5d	2824CW ¹⁾	P.30
	12	2	BA15s	7556YE ¹⁾	P.26	-	24	1	W2.1x9.5d	2824WW ¹⁾	P.30
	12	2	BAU15s	7557YE¹)	P.26	-	24	2	W2.1x9.5d	2840	P.74
	12	1	W3x16d	7706YE ¹⁾	P.26	-	24	1	BA9s	3924WW	P.30
	12	1.7	W3x16d	7706CW ¹⁾	P.26		24	1	BA9s	3924CW	P.30
	12	1.7	W3x16d	7706R ¹⁾	P.26	-	24	3	SV8.5-8	6421	P.74
	12	1.9	W3x16q	7716YE¹)	P.26	-	24	3	SV8.5-8	6430	P.74
	12	1.7	W3x16q	7716CW ¹⁾	P.26		24	5	SV8.5-8	6424	P.74
	12	1.7	W3x16q	7716R ¹⁾	P.26		24	10	SV8.5-8	6429	P.74
	12	1.5	W3x16d	7905R ¹⁾	P.26	-	24	15	BA15s	7529	P.74
	12	1.5	W3x16d	7905YE¹)	P.26	C5W	12	5	SV8.5-8	6418	P.59
	12	3	W3x16d	7905CW ¹⁾	P.26	C5W	12	5	SV8.5-8	6418ULT	P.40
	12	1.5	W3x16q	7915R ¹⁾	P.26	C5W	24	5	SV8.5-8	6423	P.74
	12	1.5	W3x16q	7915YE¹)	P.26	D1S	85	35	PK32d-2	66140	P.42
	12	3	W3x16q	7915CW ¹⁾	P.26	D1S	85	35	PK32d-2	66140XNL	P.36
	12	1.8	W2.1x9.5d	9212CW ¹⁾	P.26	D1S	85	35	PK32d-2	66140CBI	P.38
	12	2	W2.1x9.5d	9213R ¹⁾	P.26	D1S	85	35	PK32d-2	66140ULT	P.40
	12	3	W2.1x9.5d	9213CW ¹⁾	P.26	D1R	85	35	PK32d-3	66150	P.42
	12	13	PY20d	9745CW	P.24	D1R	85	35	PK32d-3	66150CBI	P.38
	12	-	P43t	9726CW	P.22	D2S	85	35	P32d-2	66240	P.42
	12	-	P22d	9736CW	P.22	D2S	85	35	P32d-2	66240XNL	P.36
	12	80	P14.5s	62150CBB ¹⁾	P.82	D2S	85	35	P32d-2	66240CBI	P.38
	12	20	BA9s	64111	P.59	D2S	85	35	P32d-2	66240ULT	P.40
	12	10	BA9s	64113	P.59	D2R	85	35	P32d-3	66250	P.42

ECE	٧	W		Product Reference		ECE	٧	W		Product Reference	
D2R	85	35	P32d-3	66250CBI	P.38	H4	12	60/55	P43t	64193NBS	P.48
D3S	42	35	PK32d-5	66340	P.42	H4	12	60/55	P43t	64193CBI	P.50
D3S	42	35	PK32d-5	66340XNL	P.36	H4	12	60/55	P43t	64193ULT	P.54
D3S	42	35	PK32d-5	66340CBI	P.38	H4	12	60/55	P43t	64193NR1	P.64
D3S	42	35	PK32d-5	66340ULT	P.40	H4	12	60/55	P43t	64193NR5	P.66
D3R	42	35	PK32d-6	66350	P.42	H4	12	60/55	P43t	64193XR	P.68
D4S	42	35	P32d-5	66440	P.42	H4	12	60/55	P43t	64193MC	P.68
D4S	42	35	P32d-5	66440XNL	P.36	H4	24	75/70	P43t	64196	P.74
D4S	42	35	P32d-5	66440CBI	P.38	H4	24	75/70	P43t	64196TSP	P.72
D4S	42	35	P32d-5	66440ULT	P.40	H4	24	75/70	P43t	94196	P.74
D4R	42	35	P32d-6	66450	P.42	H6W	12	6	BAX9s	64132	P.59
D8S	42	25	PK32d-1	66548	P.42	H6W	12	6	BAX9s	64132ULT	P.54
H1	12	55	P14.5s	64150	P.56	H7	12	55	PX26d	64210	P.56
H1	12	55	P14.5s	64150NL	P.46	H7	12	55	PX26d	64210NL	P.46
H1	12	55	P14.5s	64150NBS	P.48	H7	12	55	PX26d	64210NBS	P.48
H1	12	55	P14.5s	64150CBI	P.50	H7	12	55	PX26d	64210CBI	P.50
H1	12	55	P14.5s	64150ULT	P.54	H7	12	55	PX26d	64210ULT	P.54
H1	24	70	P14.5s	64155	P.74	H7	12	55	PX26d	64210NR1	P.64
H1	24	70	P14.5s	64155TSP	P.72	H7	12	55	PX26d	64210NR5	P.66
H10	12	42	PY20d	9145	P.56	H7	12	55	PX26d	64210XR	P.68
H11	12	55	PGJ19-2	64211	P.56	H7	12	55	PX26d	64210MC	P.68
H11	12	55	PGJ19-2	64211NL	P.46	H7	24	70	PX26d	64215	P.74
H11	12	55	PGJ19-2	64211NBS	P.48	H7	24	70	PX26d	64215TSP	P.72
H11	12	55	PGJ19-2	64211CBI	P.50	H8	12	35	PGJ19-1	64212	P.56
H11	12	55	PGJ19-2	64211ULT	P.54	H8	12	35	PGJ19-1	64212NL	P.46
H11	12	55	PGJ19-2	64211NR1	P.64	H8	12	35	PGJ19-1	64212CBI	P.50
H11	12	55	PGJ19-2	64211NR5	P.66	H8	12	35	PGJ19-1	64212XR	P.68
H11	12	55	PGJ19-2	64211XR	P.68	H8	12	35	PGJ19-1	64212NR1	P.64
H11	24	70	PGJ19-2	64216TSP	P.72	H8	12	35	PGJ19-1	64212XR	P.68
H11B	12	55	PGJY19-2	64241	P.56	H8B	12	35	PGJY19-1	64242	P.56
H13	12	60/55	P26.4t	9008	P.56	H9	12	65	PGJ19-5	64213	P.56
H15	12	55/15	PGJ23t-1	64176	P.56	H9B	12	65	PGJY19-5	64243	P.56
H15	12	55/15	PGJ23t-1	64176CBI	P.50	HB3	12	60	P20d	9005	P.56
H15	24	20/60	PGJ23t-1	64177	P.74	HB3	12	60	P20d	9005NL	P.46
H16	12	19	PGJ19-3	64219L+	P.56	HB3	12	60	P20d	9005CBI	P.50
H16	12	19	PGJ19-3	64219CBI	P.50	HB3A	12	60	P20d	9005XS	P.56
H18	12	55	PY26d-1	64180L	P.56	HB4	12	51	P22d	9006	P.56
H19	12	60/55	PU43t-3	64181L	P.56 P.56	HB4 HB4	12 12	51	P22d P22d	9006NL	P.46
H2 H2		55	X511	64173			12	51	P20d	9006CBI	P.50
H21W	24	70 21	X511	64175	P.74	HB4A HB5		51		9006XS 9007	P.56
	12	21	BAY9s	64136	P.59		12	65/55	PX29t		P.56
H21W H27W/1	12	27	BAY9s PG13	64138 880	P.74 P.56	HIR1 HIR2	12 12	65 55	PX20d PX22d	9011	P.58 P.58
H27W/1	12	27	PG13	880CBI	P.50	HIR2	12	55	PX22d	9012CBI	P.50
H27W/2	12	27	PGJ13	881	P.56	HS1	12	35/35	PX43t	64185	P.68
H27W/2	12	27	PGJ13	881CBI	P.50	HS1	12	35/35	PX43t	64185NR9	P.64
H3	12	55	PK22s	64151	P.56	HS1	12	35/35	PX43t	64185NR5	P.66
H3	12	55	PK22s	64151NL	P.46	HS1	12	35/35	PX43t	64185XR	P.68
H3	12	55	PK22s	64151CBI	P.50	HY21W	12	21	BAW9s	64137ULT	P.54
H3	24	70	PK22s	64156	P.74	P21W	12	21	BA15s	7506	P.58
H3	24	70	PK22s	64156TSP	P.72	P21W	12	21	BA15s	7506ULT	P.54
H4	12	60/55	P43t	64193	P.56	P21W	24	21	BA15s	7511 7511TCD	P.74
<u>H4</u>	12	60/55	P43t	64193NL	P.46	P21W	24	21	BA15s	7511TSP	P.72

ECE	V	W		Product Reference	
P21/4W	12	21/4	BAZ15d	7225	P.58
P21/5W	12	21/5	BAY15d	7528	P.58
P21/5W	12	21/5	BAY15d	7528ULT	P.54
P21/5W	24	21/5	BAY15d	7537	P.74
P21/5W	24	21/5	BAY15d	7537TSP	P.72
P27W	12	27	W2.5x16d	3156	P.59
P27/7W	12	27/7	W2.5x16q	3157	P.59
PR21W	12	21	BAW15s	7508LDR	P.52
PR21/5W	12	21/5	BAW15d	7538LDR	P.52
PS19W	12	19	PG20-1	5201	P.59
PS24W	12	24	PG20-3	5202	P.59
PSX24W	12	24	PG20-7	2504	P.59
PY21W	12	21	BAU15s	7507	P.58
PY21W	12	21	BAU15s	7507ULT	P.54
PY21W	12	21	BAU15s	7507DC	P.52
PY21W	24	21	BAU15s	7510TSP	P.72
PY27/7W	12	27/7	W2.5x16q	3757AK	P.59
R10W	12	10	BA15s	5008	P.59
R10W	12	10	BA15s	5008ULT	P.54
R10W	24	10	BA15s	5637	P.74
R10W	24	10	BA15s	5637TSP	P.72
R2	12	45/40	P45t	64183	P.68
R5W	12	5	BA15s	5007	P.59
R5W	12	5	BA15s	5007ULT	P.54
R5W	24	5	BA15d	5626	P.74
R5W	24	5	BA15s	5627	P.74
R5W	24	5	BA15s	5627TSP	P.72
RY10W	12	10	BAU15s	5009	P.59
S1	12	25/25	BA20d	64326	P.68
S2	12	35/35	BA20d BA20d	64327	P.68
S2	12	35/35	BA20d BA20d	64327XR	P.68
74W	12				
T4W	24	4	BA9s	3893	P.58 P.74
T4W	24	4	BA9s BA9s	3930TSP	P.74 P.72
W16W	12	16	W2.1x9.5d	921	
					P.58
W2.3W	12	2.3	W2x4.6d	2723	P.59
W21/5W	12	21/5	W3x16q	7515	P.58
W21W	12	21	W3x16d	7505	P.58
W3W	12	3	W2.1x9.5d	2821	P.58
W3W	24	3	W2.1x9.5d	2841	P.74
W5W	12	5	W2.1x9.5d	2825	P.58
W5W	12	5	W2.1x9.5d	2825ULT	P.54
W5W	12	5	W2.1x9.5d	2825HCBI	P.50
W5W	24	5	W2.1x9.5d	2845	P.74
W5W	24	5	W2.1x9.5d	2845TSP	P.72
WY5W	12	5	W2.1x9.5d	2827	P.58
WY5W	12	5	W2.1x9.5d	2827DC	P.52
WY16W	12	16	W2.1x9.5d	921NA	P.58
WY21W	12	21	WX3x16d	7504	P.58

¹⁾ These products do not have ECE approval. This means they must not be used on public roads in any exterior application. Use on public roads leads to cancellation of operating license and loss of insurance coverage. Several countries do not allow sale and use of these products. Please contact your local distributor for information on the availability in your country.

Type overview in numerical order of product reference with test data

Product Reference	ECE	V	W		V Test	W	lm	T[h] BS/Tc 1)	
880	H27W/1	12	27	PG13	13.5	31	450	-	P.56
880CBI	H27W/1	12	27	PG13	13.5	max. 31	477	-	P.50
881	H27W/2	12	27	PGJ13	13.5	31	450	-	P.56
881CBI	H27W/2	12	27	PGJ13	13.5	max. 31	477	-	P.50
921	W16W	12	16	W2.1x9.5d	13.5	19.4	310	400/1000	P.58
921NA	WY16W	12	16	W2.1x9.5d	13.5	19.4	190	400/1000	P.58
1458CW	-	12	2/0.4	BAY15d	13.5	-	150/45	avg: 2000	P.26
1458R	-	12	2/0.4	BAY15d	13.5	-	90/14	avg: 2000	P.26
1457YE	-	12	2/0.4	BAY15d	13.5	-	16/6	avg: 2000	P.26
1557CW	-	12	2/0.4	BAY15d	13.5	-	200/26	2500/5000	P.26
1557R	-	12	2/0.4	BAY15d	13.5	-	118/8	2500/5000	P.26
1557YE	-	12	2/0.4	BAY15d	13.5	-	68/6	2500/5000	P.26
2341	-	24	1	W2x4.6d	28.0	1	3	300/1000	P.74
2351MFX6	-	12	1.2	BX8.4d	13.5	1.32	7.5	600/3000	P.59
2352MFX6	-	12	2	BX8.4d	13.5	2.13	11.8	1500/6000	P.59
2452MFX6	-	12	1.5	BX8.4d	13.5	1.8	6.5	1700/6500	P.59
2473MFX6	-	12	1.12	BX8.4d	14.0	1.12	3.6	500/5000	P.59
2504	PSX24W	12	24	PG20-7	13.5	max. 25	500	750/1500	P.59
2721	-	12	1.2	W2x4.6d	13.5	1.22	7.5	500/2000	P.58
2721MF	-	12	1.2	B8.5d	13.5	1.2	6.4	500/2000	P.59
2721MFX	-	12	1.2	BX8.5d	13.5	1.2	6.4	500/2000	P.59
2722	_	12	2	W2x4.6d	13.5	2	12	1300/4000	P.58
2722MF	_	12	2	B8.5d	13.5	2	10.2	1300/4000	P.59
2722MFX	-	12	2	BX8.5d	13.5	2	10.2	1300/4000	P.59
2723	W2.3W	12	2.3	W2x4.6d	13.5	2.5	18.6	350/1200	P.59
2741	-	24	1.2	W2x4.6d	28.0	1.6	7.5	400/2000	P.74
2741MF	-	24	1.2	B8.5d	28.0	1.6	6.4	400/2000	P.74
2741MFX	_	24	1.2	BX8.5d	28.0	1.6	6.4	400/2000	P.74
2820	_	12	2	W2.1x9.5d	13.5	2.2	13.5	600/4000	P.80
2821	W3W	12	3	W2.1x9.5d	13.5	3	22	1300/4000	P.58
2824CW ²⁾	-	24	1	W2.1x9.5d	28	1	55	2500/5000	P.30
2824WW ²⁾	_	24	1	W2.1x9.5d	28	1	55	2500/5000	P.30
2825	W5W	12	5	W2.1x9.5d	13.5	5	50	350/1000	P.58
2825HCBI	W5W	12	5	W2.1x9.5d	13.5	5	50	350/1000	P.50
2825ULT	W5W	12	5	W2.1x9.5d	13.5	5	50	700/1500	P.54
2827	WY5W	12	5	W2.1x9.5d	13.5	5	30	350/1000	P.58
2827DC	WY5W	12	5	W2.1x9.5d	13.5	5	30	200/500	P.52
2840	-	24	2	W2.1x9.5d	28.0	2.6	13	500/5000	P.74
2841	W3W	24	3	W2.1x9.5d	28.0	4	22	500/5000	P.74
2845	W5W	24	5	W2.1x9.5d	28.0	7	50	800/3000	P.74
2845TSP	W5W	24	5	W2.1x9.5d	28.0	7	50	1000/4000	P.72
2850BL ²⁾	-	12	1			-	16		
2850CW ²⁾		12	1	W2.1x9.5d W2.1x9.5d	13.5	-	70	5000 2500/5000	P.28 P.28
2850WW ²⁾		12	1	W2.1x9.5d	13.5		55	2500/5000	P.28
2855YE ²⁾	-	12	1	W2.1x9.5d	13.5	-	30	2500/5000	P.28
2880BL ²⁾	-	12	0.5	W2.1x9.5d	13.5	-	9	avg: 2000	P.28
2880CW ²⁾	-	12	0.5	W2.1x9.5d	13.5	-	45	avg: 2000	P.28
2880YE ²⁾	-	12	1	W2.1x9.5d	13.5	-	7	avg: 2000	P.28
2880GR ²⁾	-	12	0.5	W2.1x9.5d	13.5	-	17	avg: 2000	P.28
2886X	-	12	6	W2.1x9.5d	13.5	6	85	400/1000	P.58

Product Reference	ECE	V	W		V Test	VV	lm	T[h] B3/Te 1)	
2880R ²⁾	-	12	0.5	W2.1x9.5d	13.5	-	17	avg: 2000	P.28
3156	P27W	12	27	W2.5x16d	13.5	29.2	475	600/0	P.59
3157	P27/7W	12	27/7	W2.5x16q	13.5	29.2/7.7	475/36	600/5000	P.59
3301CW	-	12	1.8	PG20-1	13.5	-	-	-	P.26
3548CW	-	12	2.5	W2.5x16q	13.5	-	150/45	avg: 2000	P.26
3548R	-	12	3	W2.5x16q	13.5	-	90/14	avg: 2000	P.26
3548YE	-	12	1	W2.5x16q	13.5	-	16/6	avg: 2000	P.26
3557CW	-	12	1.42/0.54	W2.5x16q	13.5	-	200/26	2500/5000	P.26
3557R	-	12	1.42/0.54	W2.5x16q	13.5	-	118/8	2500/5000	P.26
3557YE	-	12	1.42/0.54	W2.5x16q	13.5	-	68/6	2500/5000	P.26
3757AK	PY27/7W	12	27/7	W2.5x16q	13.5	29.2/17.7	280/21	460/1100	P.59
3796	-	12	2	BA9s	13.5	2	12.5	300/750	P.58
3828CW	-	12	1.8	PG18.5d-1	13.5	-	-	-	P.26
3850CW ²⁾	-	12	1	BA9s	13.2	-	50	500/1000	P.28
3850WW ²⁾	-	12	1	BA9s	13.2	-	50	500/1000	P.28
3860	-	12	5	BA9s	13.5	5	50	400/1000	P.58
3893	T4W	12	4	BA9s	13.5	4	35	600/1200	P.58
3924WW ²⁾	-	24	1	BA9s	-	-	-	-	P.30
3924CW ²⁾	-	24	1	BA9s	-	-	-	-	P.30
3930	T4W	24	4	BA9s	28.0	5	35	250/500	P.74
3930TSP	T4W	24	4	BA9s	28.0	5	35	550/1000	P.72
5007	R5W	12	5	BA15s	13.5	5	50	350/800	P.59
5007ULT	R5W	12	5	BA15s	13.5	5	50	600/1200	P.54
5008	R10W	12	10	BA15s	13.5	10	125	350/800	P.59
5008ULT	R10W	12	10	BA15s	13.5	10	125	600/1200	P.54
5009	RY10W	12	10	BAU15s	13.5	10	75	350/800	P.59
5201	PS19W	12	19	PG20-1	13.5	max. 20	350	750/1500	P.59
5202	PS24W	12	24	PG20-3	13.5	max. 25	500	750/1500	P.59
5301CW	F324W	12	3	PG20-1	13.5	IIIdx. 25	300	730/1300	P.26
	R5W	24	5	BA15d	28.0	7	50	80/250	
5626 5627	R5W	24	5	BA15s		7	50	500/1000	P.74 P.74
					28.0				
5627TSP	R5W	24	5	BA15s	28.0	7	50	800/2000	P.72
5637	R10W	24	10	BA15s	28.0	12.5	125	400/800	P.74
5637TSP	R10W	24	10	BA15s	28.0	12.5	125	1000/2000	P.72
5828CW	-	12	3	PG18.5d-1	13.5	-	-	-	P.26
6411	-	12	10	SV8.5-8	13.5	10	100	500/1000	P.59
6413	-	12	5	SV8.5-8	13.5	5	45	1000/2000	P.59
6418	C5W	12	5	SV8.5-8	13.5	5	45	1000/2000	P.59
6418ULT	C5W	12	5	SV8.5-8	13.5	5	45	1500/4000	P.40
6421	-	24	3	SV8.5-8	24.0	3	17	800/1500	P.74
6423	C5W	24	5	SV8.5-8	28.0	7	45	1500/4000	P.74
6424	-	24	5	SV8.5-8	28.0	7	60	1000/2000	P.74
6428	-	12	3	SV7-8	13.5	3.5	29	600/1200	P.59
6429	-	24	10	SV8.5-8	28.0	10	105	300/600	P.74
6430	-	24	3	SV7-8	28.0	3	23	400/800	P.74
6431CW ²⁾	-	12	0.5	SV8.5-8	13.5	-	30	avg: 2000	P.28
6431BL ²⁾	-	12	0.5	SV8.5-8	13.5	-	4	avg: 2000	P.28
6436CW ²⁾	-	12	0.5	SV8.5-8	13.5	-	30	avg: 2000	P.28
6436BL ²⁾	-	12	0.5	SV8.5-8	13.5	-	4	avg: 2000	P.28
6438	-	12	10	SV8.5-8	13.0	10	120	200/500	P.59
6441 CW ²⁾	-	12	0.5	SV8.5-8	13.5	-	30	avg: 2000	P.28
6441BL ²⁾	_	12	0.5	SV8.5-8	13.5	-	4	avg: 2000	P.28
6461	_	12	10	SV8.5-8	13.5	10	105	600/1200	P.59
6486X	_	12	6	SV8.5-8	13.5	6	85	350/600	P.59
6497CW ²⁾		12	1	SV8.5-8	13.5	max. 1.3	35	2500/5000	P.39 P.28
6497WW ²⁾	-	12	1	SV8.5-8	13.5	max. 1.3	35	2500/5000	P.28

Product Reference	ECE	V	W		V Test	W	lm	T[h] B3/Tc 1)	
6498CW ²⁾	-	12	1	SV8.5-8	13.5	max. 1.3	30	2500/5000	P.28
6498WW ²⁾	-	12	1	SV8.5-8	13.5	max. 1.3	30	2500/5000	P.28
6499CW ²⁾	-	12	1	SV8.5-8	13.5	max. 1.3	35	2500/5000	P.28
6499WW ²⁾	-	12	1	SV8.5-8	13.5	max. 1.3	35	2500/5000	P.28
7225	P21/4W	12	21/4	BAZ15d	13.5	25/5	440/15	180/1250 //290/4000	P.58
7240	-	12	21/5	BA15d	13.5	25/6	440/35	180/1250//290/4000	P.58
7458CW	-	12	2	BA15s	13.5	-	190	avg: 2000	P.26
7458R	-	12	2	BA15s	13.5	-	107	avg: 2000	P.26
7458YE	-	12	2	BA15s	13.5	-	22	avg: 2000	P.26
7459YE	-	12	2	BAU15s	13.5	-	22	avg: 2000	P.26
7504	WY21W	12	21	WX3x16d	13.5	25	280	400/600	P.58
7505	W21W	12	21	W3x16d	13.5	25	460	400/600	P.58
7506	P21W	12	21	BA15s	13.5	25	460	250/500	P.58
7506ULT	P21W	12	21	BA15s	13.5	25	460	500/1000	P.54
7507	PY21W	12	21	BAU15s	13.5	25	280	250/500	P.58
7507ULT	PY21W	12	21	BAU15s	13.5	25	280	500/1000	P.54
7507DC	PY21W	12	21	BAU15s	13.5	25	280	100/250	P.52
7508LDR	PR21W	12	21	BAW15s	13.5	25	110	500/1000	P.52
7510TSP	PY21W	24	21	BAU15s	28.0	28	250	250/500	P.72
7511	P21W	24	21	BA15s	28.0	28	460	200/400	P.74
7511TSP	P21W	24	21	BA15s	28.0	28	460	250/500	P.72
7515	W21/5W	12	21/5	W3x16q	13.5	25/6	440/35	400/600//3000/3000	P.58
7528	P21/5W	12	21/5	BAY15d	13.5	25/6	440/35	180/1250//290/4000	P.58
7528ULT	P21/5W	12	21/5	BAY15d	13.5	25/6	440/35	300/3000//800/6000	P.54
7529 7529	1 2 1/ 3 1 1	24	15	BA15s	28.0	15	210	100/300	P.74
7537	P21/5W	24	21/5	BAY15d	28.0	28/10	440/40	60/600//160/1600	P.74
7537TSP	P21/5W	24	21/5	BAY15d	28.0	28/10	440/40		
								100/1000//200/2000	P.72
7538LDR	PR21/5W	12	21/5	BAW15d	13.5	25/6	105/8	300/3000//800/6000	P.52
7556CW	-	12	2	BA15s	13.5	-	200	2500/5000	P.26
7556R	-	12	2	BA15s	13.5	-	115	2500/5000	P.26
7556YE	-	12	2	BA15s	13.5	-	68	2500/5000	P.26
7557YE	-	12	2	BAU15s	13.5	-	68	2500/5000	P.26
7706CW	-	12	2.5	W3x16d	13.5	-	190	avg: 2000	P.26
7706R	-	12	3	W3x16d	13.5	-	107	avg: 2000	P.26
7706YE	-	12	1	W3x16d	13.5	-	22	avg: 2000	P.26
7716CW	-	12	3	W3x16q	13.5	-	150/45	avg: 2000	P.26
7716R	-	12	1.5	W3x16q	13.5	-	90/14	avg: 2000	P.26
7716YE	-	12	1.5	W3x16q	13.5	-	16/6	avg: 2000	P.26
7905CW	-	12	3	W3x16d	13.5	-	230	2500/5000	P.26
7905R	-	12	1.5	W3x16d	13.5	-	50	2500/5000	P.26
7905YE	-	12	1.5	W3x16d	13.5	-	40	2500/5000	P.26
7915CW	-	12	3	W3x16q	13.5	-	170/50	2500/5000	P.26
7915R	-	12	1.5	W3x16q	13.5	-	40/12	2500/5000	P.26
7915YE	-	12	1.5	W3x16q	13.5	-	35/7	2500/5000	P.26
9005	HB3	12	60	P20d	13.2	73	1860	280/550	P.56
9005NL	HB3	12	60	P20d	13.2	73	1860	110/210	P.46
9005CBI	HB3	12	60	P20d	13.2	73	1860	110/220	P.50
9005XS	НВЗА	12	60	P20d	13,2	max. 73	1860	-	P.56
9006	HB4	12	51	P22d	13.2	62	1095	860/1720	P.56
9006NL	HB4	12	51	P22d	13.2	62	1095	270/500	P.46
9006CBI	HB4	12	51	P22d	13.2	62	1095	260/520	P.50
9006XS	HB4A	12	51	P20d	13.2	62	1095	860/1720	P.56
9007	HB5	12	65/55	PX29t	12.8	70/60	1350/1000	250/500	P.56
9008	H13	12	60/55	P26.4t	13.2	75/68	1700/1100	170/1290//350/2590	P.56
9011	HIR1	12	65	PX20d	13.2	max. 73	2500	220/300	P.58
9012	HIR2	12	55	PX22d	13.2	max. 63	1875	500/870	P.58

Product Reference	ECE	V	W		V Test	W	lm	T[h] BRATE 1)	
9012CBI	HIR2	12	55	PX22d	13.2	63	1875	300/500	P.50
9145	H10	12	42	PY20d	13.2	50	850	860/1720	P.56
9212CW	-	12	1.8	W2.1x9.5d	12	13	140	-	P.26
9213CW	-	12	3	W2.1x9.5d	13.5	-	230	2500/5000	P.26
9213R	-	12	2	W2.1x9.5d	13.5	-	95	2500/5000	P.26
9745CW	-	12	13	PY20d	-	-	730	-	P.24
9726CW	-	12	-	P43t	-	-	-	-	P.22
9736CW	-	12	-	P22t	-	-	-	-	P.22
62150CBB ²⁾	-	12	80	P14.5s	13.2	80	1150	75/150	P.82
62193CBB ²⁾	-	12	100/90	P43t	13.2	100/90	1600/760	60/200//120/400	P.82
62200SBP ²⁾	-	12	100	P14.5s	13.2	max. 94	2600	23/50	P.80
62201SBP ²⁾	-	12	100	PK22s	13.2	max. 95	2300	22/50	P.80
62204SBP ²⁾	-	12	100/90	P43t	13.2	100/90	2900/1530	100/200//300/550	P.80
62210CBB ²⁾	-	12	80	PX26d	13.2	80	1100	150/350	P.82
62211CBB ²⁾	-	12	75	PGJ19-2	13.2	75	1000	200/400	P.82
62213CBB ²⁾	-	12	75	PGJ19-5	13.2	75	1100	200/400	P.82
62261SBP ²⁾	_	12	80	PX26d	13.2	80	1950	250/500	P.80
64111	_	12	5	BA9s	13.5	5	80	150/500	P.59
64113	_	12	10	BA9s	13.5	10	200	150/400	P.59
64115	_	12	20	BA9s	13.5	22.5	450	150/500	P.59
64132	H6W	12	6	BAX9s	13.5	7	125	350/700	P.59
64132ULT	H6W	12	6	BAX9s	13.5	7	125	600/1000	P.54
64136	H21W	12	21	BAY9s	13.5	25	600	300/600	P.59
64137ULT	HY21W	12	21	BAW9s	13.5	26.25	300	400/700	P.54
64138	H21W	24	21	BAY9s	28.0	28	600	150/400	P.74
64150	H1	12	55	P14.5s	13.2	68	1550	400/650	P.56
64150NL	H1	12	55	P14.5s	13.2	68	1550	150/300	P.46
64150NBS	H1	12	55 	P14.5s	13.2	68	1550	250/450	P.48
64150CBI	H1	12	55	P14.5s	13.2	68	1550	150/250	P.40 P.50
64150ULT	H1	12	55	P14.5s	13.2	68	1550	1200/2000	P.50 P.54
64151	H3	12	55	PK22s	13.2	68	1450	400/650	P.56
64151NL	H3	12	55	PK22s	13.2	68	1450	150/300	P.46
64151CBI	Н3	12	55	PK22s	13.2	68	1300	150/250	P.50
64152SB ²⁾		12	100	PX14,5s	13.2	93	2600	22.5/50	P.80
64153SB ²⁾	-	12	100	PKX22s	13.2	85	2300	23/50	P.80
64155	H1	24	70	P14.5s	28.0	84	1900	400/650	P.74
64155TSP	H1	24	70	P14.5s	28.0	84	1900	600/1200	P.72
64156	H3	24	70	PK22s	28.0	84	1750	400/650	P.74
64156TSP	H3	24	70	PK22s	28.0	max. 84	1750	600/1200	P.72
64173	H2	12	55	X511	13.2	68	1800	90/250	P.56
64175	H2	24	70	X511	28.0	84	2150	90/250	P.74
64176	H15	12	55/15	PGJ23t-1	13.2	19/64	260/1350	2000/250//4000/500	P.56
64176CBI	H15	12	55/15	PGJ23t-1	13.2	max. 19/64	260/1350	1000/100//2000/200	P.50
64177	H15	24	20/60	PGJ23t-1	28.0	max. 84	300/1500	1500/200//3000/400	P.74
64180L	H18	12	55	PY26d-1	13.2	max. 69	1700	700/1100	P.56
64181L	H19	12	60/55	PU43t-3	13.2	max. 68/72	1750/1200	300/600//800/1600	P.56
64183	R2	12	45/40	P45t	13.2	48.5/46.5	1030/740	250/400//500/1200	P.68
64185	HS1	12	35/35	PX43t	13.2	36.8/36.8	820/520	75/150//150/300	P.68
64185NR9	HS1	12	35/35	PX43t	13.2	35/35	825/525	75/120//120/240	P.64
64185NR5	HS1	12	35/35	PX43t	13.2	36.8/36.8	820/520	75/120//120/240	P.66
64185XR	HS1	12	35/35	PX43t	13.2	35/35	825/525	75/120//120/240	P.68
64193	H4	12	60/55	P43t	13.2	75/68	1650/1000	250/400//500/900	P.56
64193NL	H4	12	60/55	P43t	13.2	75/68	1650/1000	80/160//200/400	P.46
64193NBS	H4	12	60/55	P43t	13.2	75/68	1650/1000	250/400//450/700	P.48
64193CBI	H4	12	60/55	P43t	13.2	75/68	1650/1000	50/200//100/400	P.50
64193ULT	H4	12	60/55	P43t	13.2	75/68	1650/1000	300/2000//700/3000	P.54

Product Reference	ECE	V	W		V Test	W	lm	T[h] B3/T6 1)	
64193NR1	H4	12	60/55	P43t	13.2	75/68	1650/1000	80/260//160/400	P.64
64193NR5	H4	12	60/55	P43t	13.2	75/68	1650/1000	250/400//450/700	P.66
64193MC	H4	12	60/55	P43t	13.2	75/68	1650/1000	250/400//500/900	P.68
64193XR	H4	12	60/55	P43t	13.2	75/68	1650/1000	50/180//100/380	P.68
64194SB ²⁾	-	12	100/90	PU43t	13.2	109/85	2900/1500	45/85//85/170	P.80
64196	H4	24	75/70	P43t	28.0	85/80	1900/1200	170/350//400/800	P.74
64196TSP	H4	24	75/70	P43t	28.0	85/80	1900/1200	140/450//300/1000	P.72
64198SB ²⁾	-	12	60/55	P45t	13.2	75/68	1650/1000	250/400//500/900	P.80
64204SB ²⁾	-	12	100/90	P45t	13.2	99/88	2200/1500	150/300	P.80
64210	H7	12	55	PX26d	13.2	58	1500	330/550	P.56
64210NL	H7	12	55	PX26d	13.2	58	1500	150/250	P.46
64210NBS	H7	12	55	PX26d	13.2	58	1500	250/450	P.48
64210CBI	H7	12	55	PX26d	13.2	58	1500	100/200	P.50
64210ULT	H7	12	55	PX26d	13.2	58	1500	1000/1500	P.54
64210NR1	H7	12	55	PX26d	13.2	58	1500	150/250	P.64
64210NR5	H7	12	55	PX26d	13.2	58	1500	250/450	P.66
64210XR	H7	12	55	PX26d	13.2	58	1500	100/200	P.68
64210MC	H7	12	55	PX26d	13.2	58	1500	330/550	P.68
64211	H11	12	55	PGJ19-2	13.2	62	1350	350/580	P.56
64211NL	H11	12	55	PGJ19-2	13.2	62	1350	150/250	P.46
64211NBS	H11	12	55	PGJ19-2	13.2	62	1350	250/450	P.48
64211CBI	H11	12	55	PGJ19-2	13.2	62	1350	100/200	P.50
64211ULT	H11	12	55	PGJ19-2	13.2	62	1350	1000/2000	P.54
64211NR1	H11	12	55	PGJ19-2	13.2	62	1350	150/250	P.64
64211NR5	H11	12	55	PGJ19-2	13.2	62	1350	250/450	P.66
64211XR	H11	12	55	PGJ19-2	13.2	62	1350	100/200	P.68
64212	H8	12	35	PGJ19-1	13.2	43	800	400/800	P.56
64212NL	H8	12	35	PGJ19-1	13.2	max. 43	800	250/500	P.46
64212CBI	H8	12	35	PGJ19-1	13.2	43	800	250/500	P.50
64212NR1	H8	12	35	PGJ19-1	13.2	43	800	250/500	P.64
64212XR	H8	12	35	PGJ19-1	13.2	43	800	250/500	P.68
64213	H9	12	65	PGJ19-5	13.2	73	2100	250/500	P.56
64215	H7	24	70	PX26d	28.0	75	1750	220/500	P.74
64215TSP	H7	24	70	PX26d	28.0	75	1750	500/1000	P.72
64216TSP	H11	24	70	PGJ19-2	28.0	max. 80	1600	500/1000	P.72
64219CBI	H16	12	19	PGJ19-3	13.2	max. 26	500	250/500	P.50
64219L+	H16	12	19	PGJ19-3	13.2	26	500	1115/2000	P.56
64241	H11B	12	55	PGJY19-2	13.2	62	1350	350/580	P.56
64242	H8B	12	35	PGJY19-1	13.2	43	800	400/800	P.56
64243	H9B	12	65	PGJY19-5	13.2	73	2100	250/500	P.56
64326	S1	12	25/25	BA20d	13.5	25/25	430/310	-	P.68
64327	S2	12	35/35	BA20d	13.5	35/35	650/460	80/160	P.68
64327XR	S2	12	35/35	BA20d	13.5	35/35	650/465	75/150//120/300	P.68
66140	D1S	85	35	PK32d-2	13.5	35	3200	2000/3000	P.42
66140XNL	D1S	85	35	PK32d-2	13.5	35	3200	1500/3000	P.36
66140CBI	D1S	85	35	PK32d-2	13.5	35	3200	1500/3000	P.38
66140ULT	D1S	85	35	PK32d-2	13.5	35	3200	-	P.40
66140CBB ²⁾	-	85	35	PK32d-2	13.2	35	3200	600/1500	P.82
66150	D1R	85	35	PK32d-3	13.5	35	2800	2000/3000	P.42
66150CBI	D1R	85	35	PK32d-3	13.5	35	2800	1500/3000	P.38
66240	D2S	85	35	P32d-2	13.5	35	3200	2000/3000	P.42
66240XNL	D2S	85	35	P32d-2	13.5	35	3200	1500/3000	P.36
66240CBI	D2S	85	35	P32d-2	13.5	35	3200	1800/2800	P.38
66240ULT	D2S	85	35	P32d-2	13.5	35	3200	-	P.40
66240CBB ²⁾	-	85	35	P32d-2	13.2	35	3200	600/1500	P.82
66250	D2R	85	35	P32d-3	13.5	35	2800	2000/3000	P.42

Product Reference	ECE	V	W		V	W	lm	T[h] B3/T6 1)	
66250CBI	D2R	85	35	P32d-3	13.5	35	2800	1500/2000	P.38
66340	D3S	42	35	PK32d-5	13.5	35	3200	2000/4000	P.42
66340XNL	D3S	42	35	PK32d-5	13.5	35	3200	2000/3000	P.36
66340CBI	D3S	42	35	PK32d-5	13.5	35	3200	2000/3000	P.38
66340ULT	D3S	42	35	PK32d-5	13.5	35	3200	-	P.40
66340CBB ²⁾	-	85	35	PK32d-5	13.2	35	3200	-	P.82
66350	D3R	42	35	PK32d-6	13.5	35	2800	2000/3000	P.42
66440	D4S	42	35	P32d-5	13.5	35	3200	2000/4000	P.42
66440XNL	D4S	42	35	P32d-5	13.5	35	3200	2000/3000	P.36
66440CBI	D4S	42	35	P32d-5	13.5	35	3200	2000/3000	P.38
66440ULT	D4S	42	35	P32d-5	13.5	35	3200	-	P.40
66440CBB ²⁾	-	85	35	P32d-5	13.2	35	3200	-	P.82
66450	D4R	42	35	P32d-6	13.5	35	2800	2000/3000	P.42
66548	D8S	42	25	PK32d-1	13.5	25	2000	2500/4000	P.42
67210CW	-	12	-	PX26d	-	-	-	-	P.22
67211CW	_	12	_	PGJ19-2	_	_	_	_	P.22
67219CW	_	12	13	PGJ19	12	13	730		P.24
69005SBP ²⁾	_	12	100	P20d	13.2	100	2885	280/550	P.80
69005CBB ²⁾		12	100	P20d	13.2	100	1100	350/700	P.82
69006SBP ²⁾	-	12	80	P22d	13.2	max. 80	1890	600/1200	P.80
69006CBB ²⁾	-	12	80	P22d	13.2	80	900	300/600	P.82
94196	H4	24	75/70	P43t	28.0	85/80	1900/1200	170/500//400/1500	P.74
LEDCBCTRL101	-	12	5	-	-	-	-	-	P.98
LEDCBCTRL102	-	12	21	-	-	-	-	-	P.98
LEDCBCTRL103	-	12/24	50	-	-	-	-	-	P.98
LEDDL101-SP	-	12/24	22/2	-	13.5	22/2	1250	5000	P.90
LEDDL101-WD	-	12/24	22/2	-	13.5	22/2	1250	5000	P.90
LEDDL102-SP	-	12/24	30/2	-	13.5	30/2	2000	5000	P.90
LEDDL102-WD	-	12/24	30/2	-	13.5	30/2	2000	5000	P.90
LEDDL103-SP	-	12/24	35	-	13.2	35	2700	5000	P.90
LEDDL103-CB	-	12/24	35	-	13.2	35	2700	5000	P.90
LEDDL104-SP	-	12/24	36	-	13.2	36	4600	5000	P.90
LEDDL104-CB	-	12/24	70	-	13.2	36	4600	5000	P.90
LEDDL105-SP	-	12/24	14	-	13.2	14	1300	5000	P.90
LEDDL106-SP	-	12/24	29	-	13.2	29	2600	5000	P.90
LEDDL107-SP	_	12/24	46	-	13.2	46	3900	5000	P.90
LEDDRL102	_	12	15	_	14.0	15	300	5000	P.92
LEDDRL301CL15	_	12	13.5	_	14.0	13.5	300	5000	P.92
LEDEXT101	_	12	-	_	-		000	-	P.102
LEDEXT102-03	_	12	60	P20d	_			_	P.102
LEDEXT102-03	-	12	51	P22d				-	P.102
		12	42	PY20d					
LEDEXT102-10	-				14.0/00.0				P.102
LEDF0G102	-	12/24	7/10	-	14.0/28.0	FOG 7/DRL 10	-	0/5000	P.94
LEDFOG101-TY-M		-	-	-	-	-	-	0/5000	P.94
LEDFOG101-VW-N		-	-	-	-	-	-	0/5000	P.94
LEDFOG101-NIS-N		-	-	-	-	-	-	0/5000	P.94
LEDFOG101-INF-N	Λ -	-	-	-	-	-	-	0/5000	P.94
LEDF0G103-SR	-	12	4x2/12x2	-	14	FOG 4/DRL 12	-	0/5000	P.96
LEDF0G103-BL	-	12	4x2/12x2	-	14	FOG 4/DRL 12	-	0/5000	P.96
LEDF0G201	-	12	8	-	14.0	8	-	0/5000	P.96
F0G103/201-TY-N	Λ -	-	-	-	-	-	-	-	P.96
F0G103/201-VW-M	l -	-	-	-	-	-	-	-	P.96
F0G103/201-NIS-N	1 -	-	-	-	-	-	-	-	P.96
LEDHL102-BK	-	12	70	-	-			-	P.88
LEDHL102-BK RHI		12	70	-	-			-	P.88

Product Reference	ECE	V	W		V	W In	lm	T[h] B3/Tc 1)	
LEDHL102-GTI	-	12	70	-	-	-	-	-	P.88
LEDHL103-BK	-	12	-	-	-	-	-	-	P.86
LEDHL103-CM	-	12	-	-	-	-	-	-	P.86
LEDHL103-GTI	-	12	-	-	-	-	-	-	P.86
LEDHL104-BK	-	12	-	-	-	-	-	-	P.86
LEDHL104-CM	-	12	-	-	-	-	-	-	P.86
LEDHL104-GTI	-	12	-	-	-	-	-	-	P.86
LEDHL105	-	12	70	-	-	-	-	-	P.88
LEDIL103	-	3.4	3.5	-	-	-	280	6000	P.110
LEDIL104	-	220	13-15	-	90-250	13-15	1.400	-	P.110
LEDIL105	-	3.4	3.5	-	3.7	0.5	150/35	-	P.108
LEDIL106	-	3.4	3.5	-	3.7	0.5	150	-	P.108
LEDIL107	-	3.4	3.5	-	3.7	1	280/70	-	P.108
LEDIL108	-	3.6	6	-	-	-	-	-	P.108
LEDIL201	-	4.5	1.5	-	-	-	80/25	5000	P.114
LEDIL202	-	4.5	1.6	-	-	-	125/90	5000	P.114
LEDIL203	-	4.5	1.5	-	-	-	80	5000	P.114
LEDIL204	-	3.7	0.5	-	-	-	160/75	6500	P.112
LEDIL205	-	3.6	0.5	-	-	-	15	6500	P.112
LEDIL205-PK	-	3.6	0.5	-	-	-	15	6500	P.112
LEDIL205-BKPK	-	3.6	0.5	-	-	-	15	6500	P.112
LEDIL206	-	3.7	3	-	-	-	250/30	6500	P.112
LEDIL207	-	3.7	3	-	-	-	150/70	6500	P.112
LEDIL209	-	4.5	3	-	-	-	300/60	6500	P.112
LEDINT102	-	12	-	-		-	-	-	P.102
LEDINT103	-	12	-	-		-	-	-	P.102
LEDINT104	-	12	-	-		-	-	-	P.102
LEDINT201	-	12	-	-	-	-	-	-	P.104
LEDINT202	-	12	-	-	-	-	-	-	P.104
LEDINT201-SEC	-	12	-	-	-	-	-	-	P.104
LEDINT203	-	12	-	-	-	-	-	-	P.104
LEDSL101	-	3	1.7	-	-	-	-	-	P.116
LEDSL302	-	4.5	0.5	-	-	-	-	-	P.116
ONYX-USB	-	12/24	0.5	-	-	0.5	20	-	P.118
ONYX L-7	-	12/24	0.5	-	-	0.5	20	-	P.118
ONYX M-7	-	12/24	0.5	-	-	0.5	20	-	P.118
			-						

B₃ T_C

¹⁾ What do B3 and Tc 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 identical 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 via which we can read off various life values. For its products in the automotive sector, OSRAM specifies a B3 value, which indicates the time at which 3% of the tested bulbs have failed. OSRAM also specifies the Tc value (characteristic Weibull value), which indicates the time at which 63.2% of the bulbs have failed. Formerly, only the average value was specified (the average life), which in this system would correspond to a B50 value (i.e. the time at which 50% of the bulbs have failed). By specifying both the B3 value and the Tc 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: single filament lamp e.g. 100/300 | dual filament lamp e.g. 100/300/1500/100

²⁾ These products do not have ECE approval. This means they must not be used on public roads in any exterior application. Use on public roads leads to cancellation of operating license and loss of insurance coverage. Several countries do not allow sale and use of these products. Please contact your local distributor for information on the availability in your country

Regional EAN overview

The new packaging reflects specific regional requirements by offering regionalized variants with a dedicated EAN.

COUNTRY	REGION REGION ORIGINAL VAP Blister, DUO BOX	COUNTRY	REGION LED + VAP blister, DUO BOX	REGION ORIGINAL Blister	COUNTRY	REGION LED + VAP blister, DUO BOX	REGION ORIGINAL Blister	COUNTRY	REGION LED + VAP blister, DUO BOX	REGION ORIGINAL Blister
Albania		Democratic Rebublic			Lebanon			São Tomé		
Algeria		of Congo			Lesotho			and Príncipe		
Andorra		Denmark			Liberia			Saudi Arabia		
Angola		Dominica			Libya			Senegal		
Antigua and Barbuda		Dominican Republic			Liechtenstein			Serbia		
Equatirial Guinea		Gabun			Lithuania			Seychelles		
Argentina		Gambia			Macedonia			Sierra Leone		
Armenia		Ghana			Madagascar			Slovakia		
Austria		Grenada			Malawi			Slovenia		
Azerbaijan		Georgia			Mali			Somalia		
Bahamas		Germany			Malta			South Africa		
Bahrain		Greece			Mauretania			South Sudan		
Barbados		Guatemala			Mauritius			Spain		
Belarus		Guinea			Monaco			Sudan		
Belize		Guinea-Bissau			Morocco			Suriname		
Benelux (Belgium,		Guyana			Mexico			Swasiland		
Netherlands,		Haiti			Moldavia			Sweden		
Luxembourg)		Honduras			Monte Negro			Switzerland		
Benin		Djibouti			Mosambique			Syria		
Bolivia		Ecuador			Namibia			Tajikistan		
Bosnia and		El Salvador			Nicaragua			Tanzania		
Herzegovina		Egypt			Niger			Togo		-
Botswana		Eritrea			Nigeria			Trinidad and Tobago		
Brazil		Estonia			Norway			Tunisia		
Bulgaria		Ethiopia			Oman			Turkey		
Burkina Faso		Finland			Pakistan			Uganda		
Burundi		France			Palestine			UK/Ireland		
Cameroon		Hungary			Panama			Ukraine		
Cape Verde		Iceland			Paraguay			United Arab Emirates		
Central African Rep.		Iran			Peru			Uruguay		
Chad		Iraq			Poland			Uzbekistan/		
Chile		Israel			Portugal			Turkmenistan		
Comoros		Italy			Qatar			Vatican City		
Congo		Jamaica		-	Romania			Venezuela		
Colombia		Jordan			Rwanda			Yemen		T
Costa Rica		Kazakhstan/		Ti Ti	Russia			Zambia		
Côte d'Ivoire		Kirgisistan	1	1	Saint Kitts and Nevis			Zimbabwe		
Croatia		Kenya			Saint Lucia					
Czechia		Kosovo			Saint Vincenta and					
Cuba		Kuwait			the Grenadines					
Cyprus		Latvia		1=	San Marino					

Product	Region 1	Region 2	Region 3	Region 4	Region 5	
Reference	= WEST-MEA	= CIS	= EASTIC	= LATAM	= EMEA	
66140XNL-HCB	4052899 993013	4052899 993037	4052899 993051	-	-	
66240XNL-HCB	4052899 992894	4052899 992917	4052899 992931	-	-	
66340XNL-HCB	4052899 993099	4052899 993112	4052899 993136	-	-	
66440XNL-HCB	4052899 993174	4052899 993198	4052899 993211	-	-	
66140CBI-HCB	4052899 431577	4052899 431621	4052899 431645	-	-	
66240CBI-HCB	4052899 431683	4052899 431706	4052899 431720	-	-	
66340CBI-HCB	4052899 431768	4052899 431782	4052899 431812	-	-	
66440CBI-HCB	4052899 431850	4052899 431874	4052899 431898	-	-	
66140ULT-HCB	4052899 429598	4052899 429611	4052899 429635	-	-	
66240ULT-HCB	4052899 429659	4052899 429673	4052899 429697	-	-	

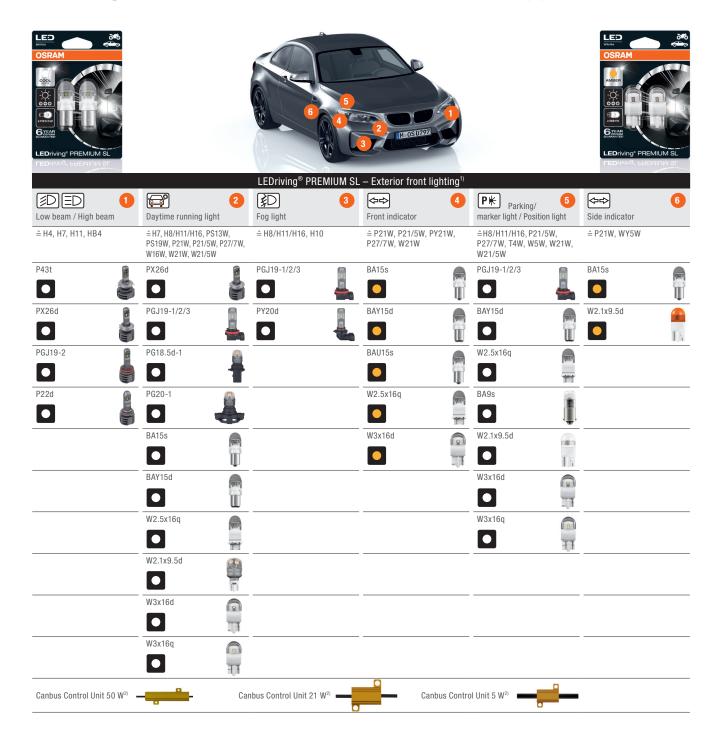
Product Reference	■ Region 1 = WEST-MEA	Region 2 = CIS	Region 3 = EASTIC	Region 4 = LATAM	Region 5 = EMEA
66340ULT-HCB	4052899 429710	4052899 429734	4052899 42975 8		-
66440ULT-HCB	4052899429772	4052899 429796	4052899429819	-	
66140CBB-HCB	4052899439184	4052899439207	4052899439221	-	
66240CBB-HCB	4052899441026	4052899441040	4052899441064	-	-
66340CBB-HCB	4052899527560	4052899527584	4032039441004		
66440CBB-HCB	4052899527522	4052899527546			
64150NL-01B	4052899990920	4052899990944	4052899 990968	4052899 990906	
34150NL-HCB	4052899991477	4052899991491	4052899991514	4052899991453	
64151NL-HCB	4052899991576	4052899991590	4052899991613	4052899991552	
64193NL-01B	4052899991088	4052899991101	4052899991125	4052899991064	
64193NL-HCB	4052899991675	4052899991699	4052899991712	4052899 991651	
4210NL-01B	4052899991163	4052899991187	4052899991200	4052899991149	_
4210NL-01B	4052899991774	4052899991798	4052899991811	4052899991750	
	4052899991774				
4212NL-HCB		4052899991996	4052899992016	4052899991958	
4211NL-01B	4052899 991248 4052899 991873	4052899 991262 4052899 991897	4052899991286	4052899 991224 4052899 991859	-
4211NL-HCB			4052899991910		<u> </u>
0005NL-HCB	4052899 992054	4052899992078	4052899992092	4052899 992030	-
006NL-HCB	4052899 992153	4052899 992177	4052899 992191	4052899 992139	-
4150NBS-01B	4052899 992399	4052899 992412	4052899 992436	405000000000	-
4150NBS-HCB	4052899 992252	4052899 992276	4052899 992290	4052899 992238	-
4193NBS-01B	4052899 992450	4052899 992474	4052899 992498	-	-
4193NBS-HCB	4052899 992337	4052899 992351	4052899 992375	4052899 992313	-
4210NBS-01B	4052899 992511	4052899 992535	4052899 992559	-	-
4210NBS-HCB	4052899 992719	4052899 992733	4052899 992757	4052899 992696	-
4211NBS-HCB	4052899 992818	4052899 992832	4052899 992856	4052899 992795	-
4150CBI-01B	4008321 655424	4052899411418	4052899411432	4052899411395	-
64150CBI-HCB	4008321 650719	4052899 412880	4052899 412965	4052899 412804	-
64193CBI-01B	4008321 651280	4052899 410794	4052899410817	4052899410718	-
4193CBI-HCB	4008321 650733	4052899 413061	4052899 413108	-	-
64210CBI-01B	4008321 651563	4052899 410831	4052899 410855	-	-
4210CBI-HCB	4008321 650757	4052899 413047	4052899 413085	-	-
4212CBI-HCB	4052899 931077	4052899 412903	4052899 412989	4052899 412828	-
4211CBI-HCB	4008321 650771	4052899 412927	4052899 413009	4052899 412842	-
4176CBI-HCB	4052899 982208	4052899 982192	4052899 982185	-	-
4219CBI-HCB	4052899 268357	4052899 412941	4052899 413023	4052899 412866	
005CBI-HCB	4008321 660282	4052899 413641	4052899 413726	4052899 413566	-
0006CBI-HCB	4008321 660305	4052899 413665	4052899 413740	4052899 413580	-
825HCBI-02B	4008321 650870	4052899 418646	4052899 418660	4052899 418622	-
827DC-02B	4008321 972750	4052899 417939	4052899 417953	4052899 417915	-
'507DC-02B	4008321 972774	405289 9417991	4052899 418011	4052899 417977	-
'508LDR-01B	4008321 376848	4052899 418516	4052899 418530	4052899 418493	-
'538LDR-01B	4008321 376862	4052899 418578	4052899 418592	4052899 418554	-
4150ULT-01B	4008321 416100	4052899 412156	4052899 412170	-	-
4150ULT-HCB	4008321 416162	4052899 425163	4052899 425187	4052899 987043	-
4193ULT-01B	4008321 416124	4052899 425125	4052899 425149	-	-
4193ULT-HCB	4008321 416186	4052899 425200	4052899 425224	4052899 513198	-
4210ULT-01B	4052899 436534	4052899 436152	4052899 436237	-	-
4210ULT-HCB	4052899 436558	4052899 436213	4052899 436251	4052899 513211	-
4211ULT-01B	4052899 436473	4052899 436114	4052899 436176	-	-
4211ULT-HCB	4052899 436510	4052899 436138	4052899 436190	-	-
506ULT-02B	4008321 415141	4052899 419469	4052899 419483	-	-
7507ULT-02B	4008321 415165	4052899 419506	4052899 419520	-	-
7528ULT-02B	4008321 415288	4052899 419582	4052899419605	-	-
825ULT-02B	4008321415189	4052899419322	4052899419346	-	
007ULT-02B	4008321415202	4052899419308	4052899419384	-	_
0070LT-02B 008ULT-02B	4008321415226	4052899419421	4052899419445		
2200E1 0ED	1000021710220	1002000710721	1002000710770		

Product Reference	Region 1 = WEST-MEA	Region 2 = CIS	Region 3 = EASTIC	■ Region 4 = LATAM	Region 5 = EMEA
6418ULT-02B	4008321 415240	4052899 419629	4052899 419643		-
64132ULT-02B	4008321 415325	4052899 419667	4052899 419681	-	-
64150-01B	-	-	-	4052899 412026	4050300 925264
64151-01B	_	_	_	4052899412040	4050300 925349
64193-01B				4052899411869	4050300 925127
64210-01B				4052899411821	4050300925202
64210-01B				4052899408173	4050300925202
64212-01B				4052899411906	4052899 26247 8
64211-01B			_	4052899411920	4008321171252
9005-01B				4052899 408562	4008321171214
9006-01B				4052899408975	4008321171214
64183-01B					
	-		-	4052899411944	4050300 925400
′506-02B			-	4052899402034	4050300 925448
7507-02B	-	-	-	4052899531178	4050300 925462
'225-02B	-	-	-	4052899402119	4050300 925547
7528-02B	-	-	-	4052899402171	4050300 925523
3893-02B	-	-	-	4052899407381	4050300 647609
2821-02B	-	-	-	4052899418813	4050300 925745
825-02B	-	-	-	4052899418837	4050300 925684
2827-02B	-	-	-	4052899417854	4008321149411
021-02B	-	-	-	4052899406933	4008321 349507
′505-02B	-	-	-	4052899417878	4052899 324565
7515-02B	-	-	-	4052899 417892	4052899 324589
721-02B	-	-	-	4052899 418790	4050300 925769
2722-02B	-	-	-	4052899 407251	4050300 925783
5007-02B	-	-	-	4052899 407015	4050300 925585
5008-02B	-	-	-	4052899 407176	4050300 925608
6411-02B	-	-	-	4052899 418936	4050300 925646
64111-02B	-	-	-	-	4050300 647258
6418-02B	-	-	-	4052899 418950	4050300 925622
6438-02B	-	-	-	-	4008321 185389
64193NR1-01B	4052899 929654	4052899 411227	4052899411104	4052899 411166	-
64210NR1-01B	4052899 929593	4052899 411203	4052899411081	4052899 411142	-
64212NR1-01B	4052899 389403	4052899 451285	4052899 451308	-	-
64211NR1-01B	4052899 253728	4052899 411241	4052899 411128	4052899 411180	-
64185NR9-01B	4052899 253452	4052899 408302	4052899 408326	-	-
64193NR5-01B	4052899 929524	4052899 411289	4052899 411340	-	-
64210NR5-01B	4052899 929470	4052899 411265	4052899 411326	-	-
64211NR5-01B	4052899 253742	4052899 411302	4052899 411364	-	-
64185NR5-01B	4052899 929425	4052899 984318	4052899 984332	-	-
64193XR-01B	4052899 253681	4052899 412385	4052899 412460	4052899 412224	-
64210XR-01B	4052899 253704	4052899 412309	4052899 412446	4052899 412200	-
64211XR-01B	4052899 936591	4052899 412422	4052899 412507	4052899 412262	-
64212XR-01B	4052899 253667	4052899 412408	4052899 412484	4052899412248	-
64185XR-01B	4052899 253490	4052899 408371	4052899 408395	4052899 408357	-
64327XR-01B	4052899 936607	4052899409613	4052899 409637	4052899 409590	-
64327-01B	-	-	-	4052899 409576	4052899 929692
64185-01B	-	-	-	4052899408418	4052899 253513
4155TSP-HCB	4008321 784209	4052899 413931	4052899414037	4052899 413832	-
64156TSP-01B	4052899 481930	4052899 481916	4052899 481893	4052899 481954	-
64196TSP-HCB	4008321785077	4052899413979	4052899414075	4052899413870	-
64215TSP-HCB	4008321785145	4052899413917	4052899414013	4052899413818	-
64216TSP-HCB	4052899 904644	4052899413993	4052899414099	4052899413894	_
3930TSP-02B	4008321 174055	-	-	-	
64155-01B	-			4052899 412101	4050300 925844
64156-01B				4052899412125	4050300 565811
, 1,00 OID				7002000 712120	-000000 000011

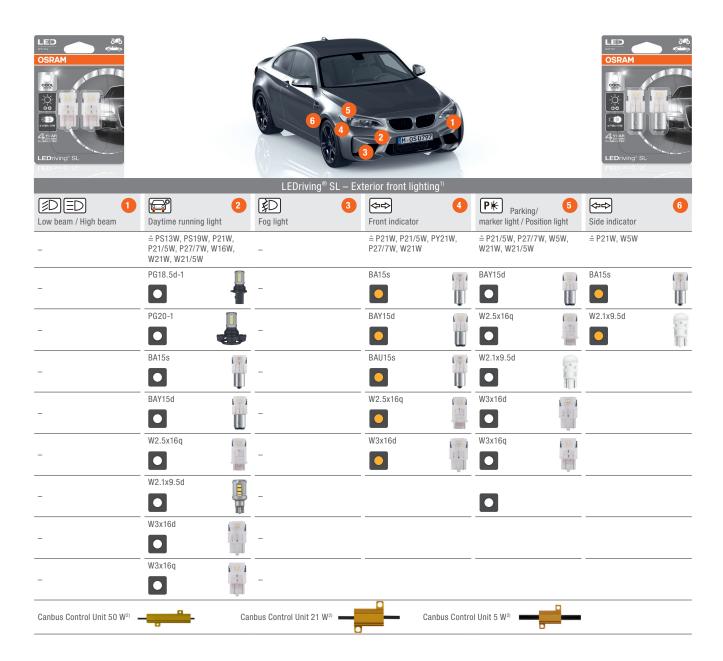
Product Reference	Region 1 = WEST-MEA	Region 2	Region 3 = EASTIC	Region 4 = LATAM	Region 5 = EMEA
neierence	= WEST-MEA	= 013	= EASTIC	= LATAW	= LIVILA
64196-01B	-	-	-	4052899411883	4050300 925868
64215-01B	-	-	-	4052899 411845	4050300 925882
'511-02B	-	-	-	-	4050300 925929
7537-02B	-	-	-	4052899402232	4050300 925943
5627-02B	-	-	-	4052899418882	4050300 925967
5637-02B	-	-	-	-	4050300 926049
3930-02B	-	-	-	-	4050300 926001
2841-02B	-	-	-	4052899 407275	4050300 926025
2845-02B	-	-	-	4052899 407329	4008321 139962
6423-02B	-	-	-	-	4050300 925981
2150CBB-HCB	4052899 439764	4052899 437678	4052899 436930	4052899 439009	-
2193CBB-HCB	4052899 439788	4052899 437654	4052899 437296	4052899 439023	-
2210CBB-HCB	4052899 43980 1	4052899 437692	4052899 437371	4052899 439047	-
2211CBB-HCB	4052899 439849	4052899 437715	4052899 437395	4052899 439085	-
2213CBB-HCB	4052899 439863	4052899 437739	4052899 437487	4052899 439108	-
9005CBB-HCB	4052899 439887	4052899 437753	4052899 437524	4052899 439122	-
9006CBB-HCB	4052899 439900	4052899 437777	4052899 437548	4052899 439146	-
557CW-02B	4052899 367975	4052899 433854	4052899 433878	-	-
557R-02B	4052899 368026	4052899 433915	4052899 433939	-	-
557YE-02B	4052899 368002	4052899 433977	4052899 433991	-	-
2850CW-02B	4008321 657657	4052899 434424	4052899 434448	4052899 434400	-
850WW-02B	4008321 657633	4052899 434493	4052899 434516	4052899 434479	-
850BL-02B	4008321 875549	4052899 434356	4052899 434370	4052899 434332	-
855YE-02B	4008321 875600	4052899 434592	4052899 434615	4052899 434578	-
557CW-02B	4052899 368040	4052899 434882	4052899 434905	-	-
8557R-02B	4052899 368088	4052899 434943	4052899 434967	-	-
557YE-02B	4052899 368064	4052899 43500 1	4052899 435025	-	-
850WW-02B	4008321 657893	4052899440531	4052899440579	4052899 440517	_
850CW-02B	4008321 658111	4052899 440623	4052899 440661	4052899 440609	-
6497WW-01B	4052899 068445	4052899 435452	4052899 435490	4052899 435414	_
6497CW-01B	4052899 068469	4052899435377	4052899435391	4052899435353	_
6498WW-01B	4008321 658159	4052899 436015	4052899 436039	4052899 435995	_
6498CW-01B	4008321 658173	4052899 442207	4052899442221	4052899442184	_
6499WW-01B	4052899068506	4052899442276	4052899442313	405289 9442252	
6499CW-01B	4052899 068483	4052899436077	4052899 436091	4052899 436053	_
7556CW-02B	4052899367760	4052899441484	4052899441507	-	
7556R-02B	4052899 367944	4052899441545	4052899441569	_	_
7556YE-02B	4052899 367906	4052899441668	4052899441743		
7557YE-02B	4052899368101	4052899441781	4052899441804		_
905CW-02B	4052899 513686	4052899 513723	4052899 513709	_	_
905R-02B	4052899 513761	4052899513808	4052899513785		
905YE-02B	4052899513587	4052899513648	4052899513617		
915CW-02B	4052899513846	4052899513884	4052899513860		
915R-02B	4052899513921	4052899513945	4052899513969		
915YE-02B	4052899514003	4052899514027	4052899 514041		
213CW-02B	4052899381896	4052899314027	4052899443044		
213R-02B	4052899381933	4052899443082	4052899443105		
824WW-02B	4008321875624	4052899434288	4052899434301	4052899 434264	
824CW-02B	4008321875648	4052899434219	4052899434233	4052899434189	
					-
924CW-02B	4008321875747	4052899440739	4052899440753	4052899440715	<u>-</u>
459CW 02B	4008321875723	4052899440845	4052899440869	4052899440807	-
458CW-02B	4052899519763	4052899519800	4052899519787	-	-
458R-02B	4052899519862	4052899519909	4052899519886	-	-
457YE-02B	4052899358034	4052899434110	4052899434134	-	-
2880BL-02B	4052899 359314	4052899 434653	4052899 434677	-	-

Product	Region 1	Region 2	Region 3	Region 4	Region 5
Reference	= WEST-MEA	= CIS	= EASTIC	= LATAM	= EMEA
2880YE-02B	4052899385597	4052899 434820	4052899 434844	-	-
2880GR-02B	4052899 385634	4052899 434745	4052899 434769	-	-
2880R-02B	4052899 359338	4052899 434783	4052899 434806	-	-
3548CW-02B	4052899 517585	4052899 517622	4052899 517608	-	-
3548R-02B	4052899 517851	4052899 517998	4052899517998	-	-
3548YE-02B	4052899 518056	4052899 518094	4052899 518070	-	-
6431CW-01B	4052899 358072	4052899 441286	4052899 441309	4052899 414792	-
6431BL-01B	4052899 358133	4052899 441248	4052899 441262	-	-
6436CW-01B	4052899 358096	4052899 445567	4052899 445581	4052899 414778	-
6436BL-01B	4052899 358157	4052899 441323	4052899 441347	-	-
6441CW-01B	4052899 358119	4052899441422	4052899 441446	4052899 414815	-
6441BL-01B	4052899 358171	4052899 441378	4052899 441408	-	-
7458CW-02B	4052899 520837	4052899 520875	4052899 520851	-	-
7458R-02B	4052899 520936	4052899 520974	4052899 520950	-	-
7458YE-02B	4052899 521056	4052899 521216	4052899 521070	-	-
7459YE-02B	4052899 521131	4052899 521179	4052899 521155	-	-
7706CW-02B	4052899 520110	4052899 520158	4052899 520134	-	-
7706R-02B	4052899 520219	4052899 520257	4052899 520233	-	-
7706YE-02B	4052899 520318	4052899 520356	4052899 520332	-	-
7716CW-02B	4052899 520455	4052899 520493	4052899 520479	-	-
7716R-02B	4052899 520554	4052899 520592	4052899 520578	-	-
7716YE-02B	4052899 520653	4052899 520691	4052899 520677	-	-
9212CW-02B	4052899 474444	4052899 474482	4052899 474468	-	-

LEDriving® RETROFITS - Overview of exterior front applications



	Use behind red glass	Use behind clear glass	Use behind amber glass
LED Color			
Red (Tail light, Brake light)	Yes	Not recommended	Not recommended
White (Daytime running light, Reversing light, License plate light, Parking light)	Not recommended	Yes	Not recommended
Amber (Indicator light, Side marker light)	Not recommended	Yes	Yes

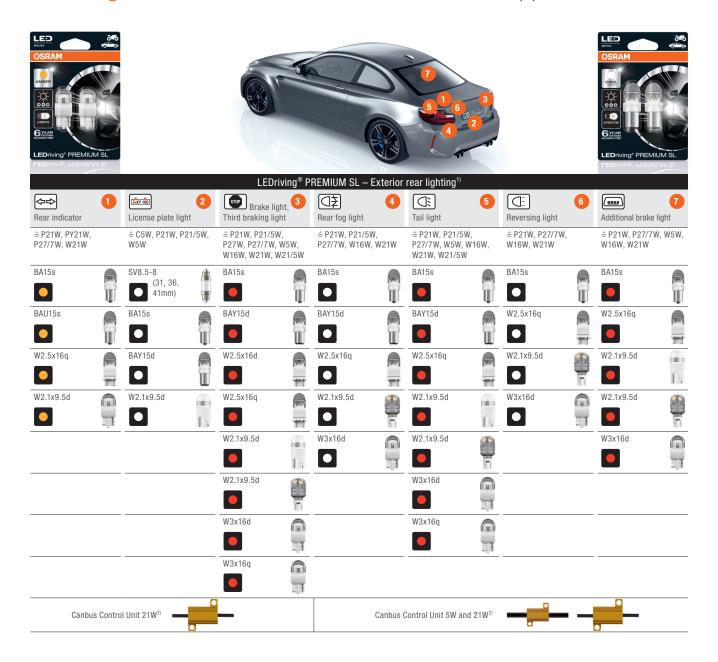




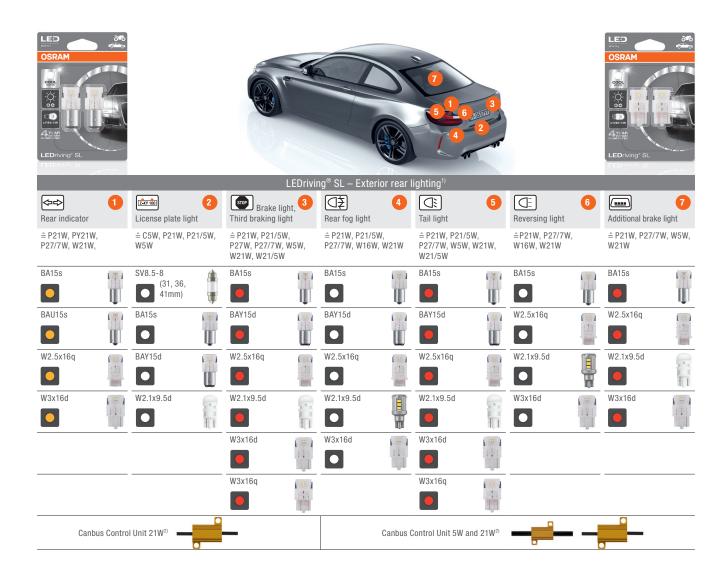
¹⁾ These products do not have ECE approval. This means they must not be used on public roads in any exterior application. Use on public roads leads to cancellation of operating license and loss of insurance coverage. Several countries do not allow sale and use of these products. Please contact your local distributor for information on the availability in your country.

²⁾ LEDriving® CANBUS CONTROL UNITS avoid error messages on the board computer when using LED retrofits within 5W, 21W and 50 W applications.

LEDriving® RETROFITS - Overview of exterior rear applications



	Use behind red glass	Use behind clear glass	Use behind amber glass
LED Color			
Red (Tail light, Brake light)	Yes	Not recommended	Not recommended
White (Daytime running light, Reversing light, License plate light, Parking light)	Not recommended	Yes	Not recommended
Amber (Indicator light, Side marker light)	Not recommended	Yes	Yes

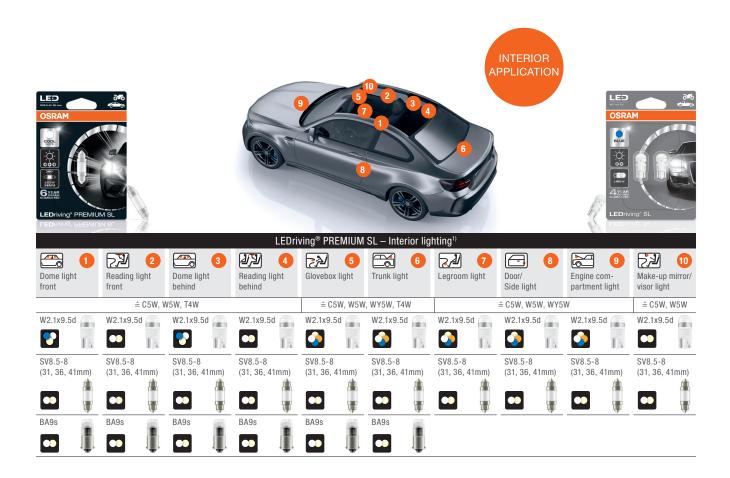




¹⁾ These products do not have ECE approval. This means they must not be used on public roads in any exterior application. Use on public roads leads to cancellation of operating license and loss of insurance coverage. Several countries do not allow sale and use of these products. Please contact your local distributor for information on the availability in your country.

²⁾ LEDriving® CANBUS CONTROL UNITS avoid error messages on the board computer when using LED retrofits within 5W, 21W and 50 W applications.

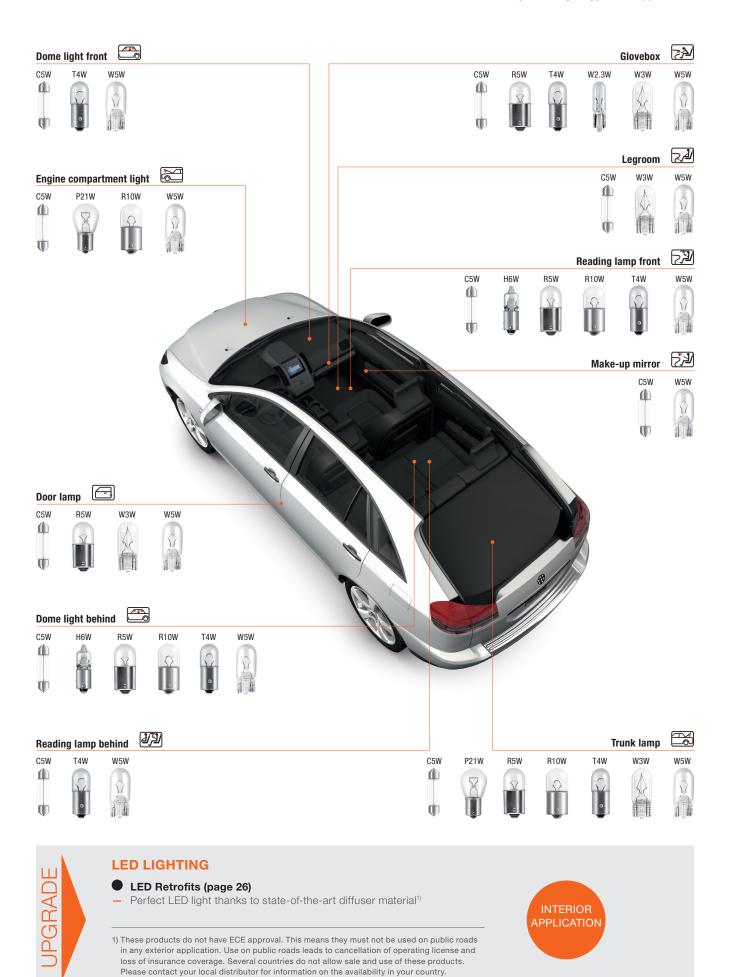
LEDriving® RETROFITS - Overview of interior applications

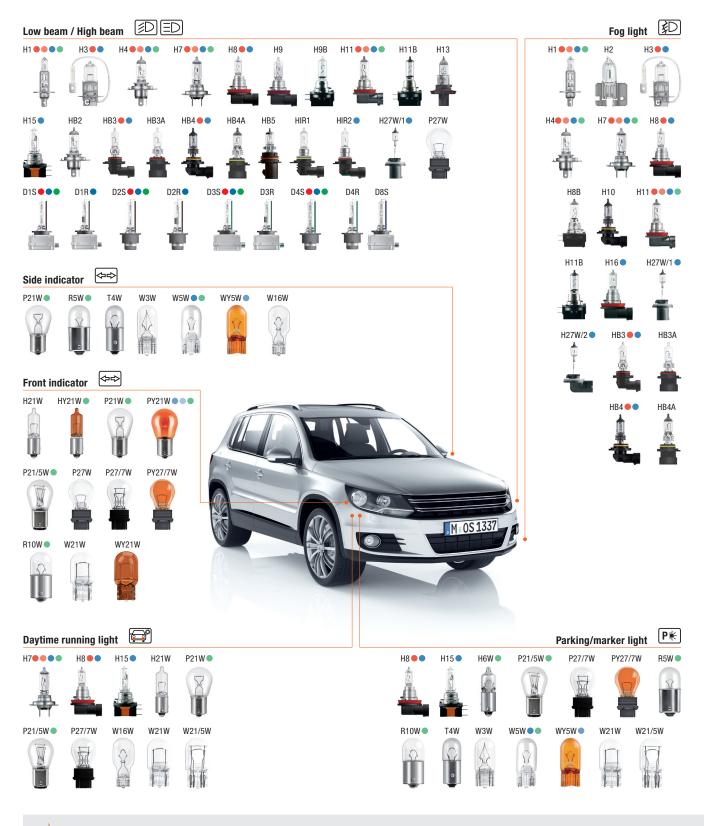


				LEDriving® SL –	Interior lighting ¹	1)			
	≙ C5W, V	V5W, T4W		≙ C5W, W5W	/, WY5W, T4W		ê C5W, W5W, WY5	W	≙ C5W, W5W
W2.1x9.5d	W2.1x9.5d	W2.1x9.5d	W2.1x9.5d	W2.1x9.5d	W2.1x9.5d	W2.1x9.5d	W2.1x9.5d	W2.1x9.5d	W2.1x9.5d
	•								
SV8.5-8 (31, 36, 41mm)	SV8.5-8 (31, 36, 41mm)	SV8.5-8 (31, 36, 41mm)	SV8.5-8 (31, 36, 41mm)	SV8.5-8 (31, 36, 41mm)					
			Canb	ous Control Unit 5W		•	,		



¹⁾ These products do not have ECE approval. This means they must not be used on public roads in any exterior application. Use on public roads leads to cancellation of operating license and loss of insurance coverage. Several countries do not allow sale and use of these products. Please contact your local distributor for information on the availability in your country.







HALOGEN LIGHTING

- NIGHT BREAKER® LASER (page 46)
- Up to 150% more brightness¹⁾
- NIGHT BREAKER® SILVER (page 48)
- Up to 100% more brightness¹⁾
- COOL BLUE® INTENSE (page 50)
- Bluish-white light for xenon look

- DIADEM® CHROME (page 52)
- Only amber when ON
- DIADEM® (page 52)
- Only red when ON
- ULTRA LIFE (page 54)
- 4-year guarantee²⁾



XENON LIGHTING

- XENARC® NIGHT BREAKER® LASER (page 36)
- Up to 200% more brightness3)
- XENARC® COOL BLUE® INTENSE (page 38)
- Extra blue light⁴⁾
- XENARC® ULTRA LIFE (page 40)
- 10-year guarantee⁵⁾

- 1) Compared to minimum ECE R112 requirements
- 2) 4th year with online product registration. Refer to www.osram.com/am-guarantee for precise conditions and registration
- 3) Compared to minimum ECE R98 requirements
- 4) From a special filling system instead of conventional coating 5) With online product registration. Refer to www.osram.com/am-guarantee for precise conditions and registration





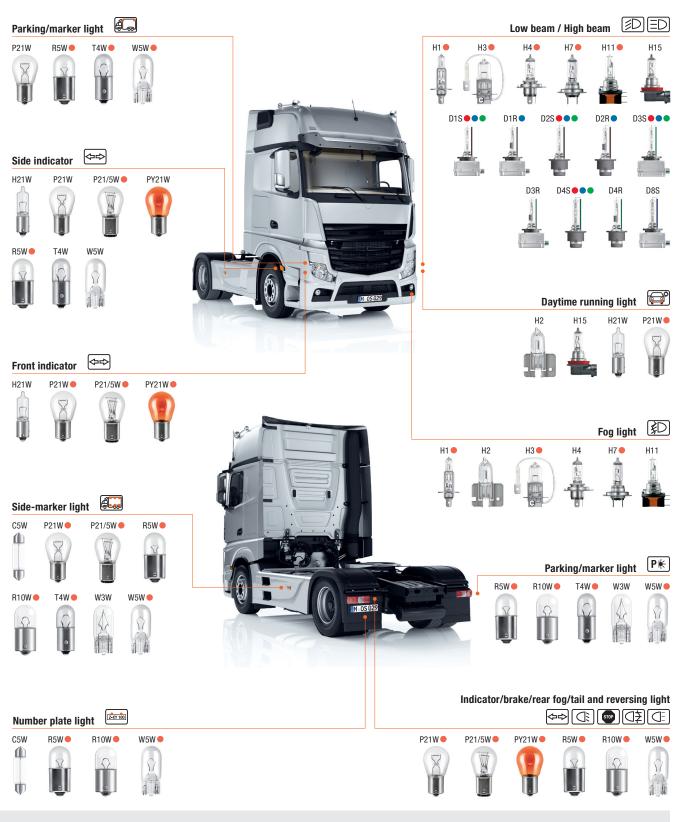
HALOGEN LIGHTING

- O NIGHT RACER® 110 (page 64)
- Up to 110% more brightness¹⁾
- O NIGHT RACER® 90 (page 64)
- Up to 90% more brightness¹⁾
- O NIGHT RACER® 50 (page 66)
- Up to 50% more brightness¹⁾
- O X-RACER® (page 68)
- Bluish-white light for xenon look
- DIADEM® CHROME (page 52)
- Only amber when ON
- DIADEM® (page 52)
- Only red when ON

ULTRA LIFE (page 54)

4-year guarantee²

- 1) Compared to minimum ECE R112 requirements
- 4th year with online product registration.
 Refer to www.osram.com/am-guarantee for precise conditions and registration



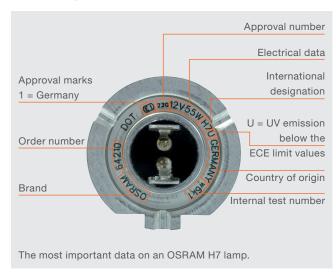
HALOGEN LIGHTING

- TRUCKSTAR® PRO (page 72)
- Up to 100% more brightness¹⁾
- 1) Compared to minimum ECE R112 requirements
- 2) Compared to minimum ECE R98 requirements
- 3) From a special filling system instead of conventional coating
- With online product registration. Refer to www.osram.com/ am-guarantee for precise conditions and registration

XENON LIGHTING

- XENARC® NIGHT BREAKER® LASER (page 36)
 - Up to 200% more brightness²⁾
- XENARC® COOL BLUE® INTENSE (page 38)
- Extra blue light³⁾
- XENARC® ULTRA LIFE (page 40)
- 10-year guarantee⁴⁾

Base stamp



Notes on product labeling



Not for residential lighting



Do not dispose with household waste



High levels of UV radiation



Switch off lights before replacing lamp



Installation and maintenance only by qualified electricians



Ignition procedure for lamps with external igniter



Caution: Hot



Lamp cannot be dimmed



Hazardous 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



Do not touch the glass bulb; hold the base when inserting



Pb-free

Lamps per Product number



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Glossary of the most important lighting terms

Luminous flux Φ

Unit of measurement: lumen [lm]

Luminous flux Φ is the total radiated power emitted by a light source evaluated with the spectral sensitivity of the eye and the photometric radiation equivalent K_m .

Luminous intensity I

Unit of measurement: candela [cd]

Generally speaking, a light source emits its luminous flux Φ in different directions and at different intensities. Luminous intensity is the luminous flux radiated in a specific direction (solid angle Ω).

Illuminance E

Unit of measurement: lux [lx]

Illuminance E is the ratio between the luminous flux and the area illuminated. An illuminance of 1 lx occurs when a luminous flux of 1 lm is evenly distributed over an area of $1\ m^2$.

Luminance L

Unit of measurement: candela per square meter [cd/m²] The luminance L of a light source or an illuminated area is a measure of the impression of brightness.

Luminous efficacy η

Unit of measurement: lumens per watt [lm/W] Luminous efficacy η indicates the efficiency with which the electrical power consumed is converted into light.

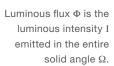
Color temperature

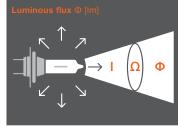
Unit of measurement: Kelvin [K]

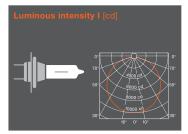
The color temperature of a light source is defined in comparison with a "black body radiator" and plotted on what is known as the "Planckian curve." The higher the temperature of this black body radiator is, the greater the blue component in the spectrum and the smaller the red component.

Lamp life

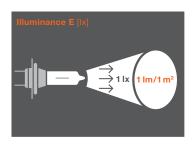
The B_3 life-span value represents the premature failure rate of lamps. This means that 3% of all tested lamps will have failed after this number of burning hours. The Tc lifespan value represents the failure rate of 63.2% of the lamps.

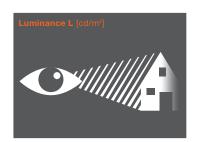






Polar diagram.





Symbols

ECE	Int. category label ECE
W	Rated wattage in watts
W	Power consumption in watts
V	Voltage in volts
V Test	Test voltage in volts
lm	Luminous flux in lumens
T[h]	Lifespan (h)
lx	Illuminance in lux
λ [nm]	Wavelength (λ)
K	Color temperature in K
COLOR	Light color
i	Information
	Base
Q No.	Fig. no.
KIT	Set
W [mm]	Width b in mm
† h [mm]	Height h in mm
[mm]	Length I in mm
4	Shipping unit
	Single packaging

Packaging variants



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