More light, better vision, greater safety with OSRAM automotive lamps

Whatever the situation, day or night, business or pleasure, and whatever the kind of driver, design-conscious or fascinated by the latest technology, OSRAM offers automotive lamps that combine optimum performance with ultimate safety. We have drawn up a list of the different types of driver so you can instantly identify the right lamps for your customers.

Туре	User	User profile/target group	ECE
12V	The "night-owl" type	 Safety-conscious high-mileage and night-time drivers 	H1, H4, H7
_	The design-conscious type	- Drivers who want a sophisticated look and a xenon-style light	H1, H3, H4, H7, HB3, HB4, T4W, W5W, H6W
	The safety-minded type	 Careful drivers (particularly those with families) who drive with lights on during the day 	H1, H4, H7, H6W, P21/5W, R5W, R10W, T4W, W5W, C5W
	The cost-conscious type	 Drivers who are looking for tried and trusted lamps to meet normal requirements 	Complete sales programme
24V	The responsible type	 Safety-conscious truck and bus drivers who want longer lamp replacement intervals 	H1, H3, H4, H7, H11, T4W, R5W, R10W, P21W, PY21W
	The cost-conscious type	 Drivers who are looking for tried and trusted lamps to meet normal requirements 	Complete sales programme
12V & 24V	The rugged type	- For off-road machinery - For rally drivers	
XENARC®	The innovative type	 Drivers fascinated by technology who want maximum vision and visibility 	D1S, D1R, D2S, D2R

All OSRAM halogen automotive lamps (12V and 24V) are UV-reduced. They are fully compatible with existing lamps and comply with all relevant standards such as ECE R 37 (except OFF-ROAD lamps).



Contents

See the world in a new light OSRAM – a partner for retailers Fit for the future: innovations from OSRAM Quality and ecology Details on product labelling and order numbers		6–7 8–9 10–11
USPs	OSRAM product line	
- Up to 50% more light on the road ¹⁾ - Cone of light up to 20m longer ¹⁾ - Ideal light for the night	SILVERSTAR®	14–15
 The "bluest" of the blue lamps (up to 4000 K) Up to 20% more light" Light and design in perfect harmony 	COOL BLUE®	16–17
 Lasts up to 3 times longer Designed for day-and-night operation Greater safety thanks to daytime running light 	LIGHT@DAY®	18–19
OEM qualityTried and tested millions of timesExcellent price/performance ratio	STANDARD LINE 12V	20–25
 Up to 100% more light on the road ¹⁾ Up to 100% longer lamp life ¹⁾ Rugged and durable (heavy duty) 	TRUCKSTAR	26–27
OEM qualityTried and tested millions of timesExcellent price/performance ratio	STANDARD LINE 24V	28–31
 Best possible illumination of the work area Maximum luminous efficacy and high lamp performance Professional version for all machinery and off-road vehicles 	OFF-ROAD High-performance halogen headlight lamps	32–33
 The best light for the road More light than any halogen lamp Longer life than any halogen lamp 	XENARC® Gas discharge headlight lamps	34–37
1) Compared to standard lamps (depending on the headlight system)		
Types and uses (summary automotive lamps) Self-service range Spare lamp kits for cars, trucks and buses Floor and counter displays, lamp sales cabinets Summary of bases and lampholder standards Glossary of the most important lighting terms General product summary, tables and reference lists Base stamps and symbols	:/index	40–43 44–47 48–51 52–53 54–55 56–64





See the world in a new light

For almost 100 years, the name of OSRAM has been synonymous throughout the world with excellence in lighting. With a succession of innovative technologies, we have opened up so many new applications for electrical light in so many different areas, such as homes, offices, industry and the roads. Our wide range of lamps and lighting systems provides the basis for modern living independent of natural daylight, with greater safety, better comfort, faster progress in science and technology and more economical use of valuable natural resources.

Reinventing light

OSRAM is one of the two largest lighting manufacturers in the world. The important North American market is covered by our subsidiary OSRAM SYLVANIA.¹⁾

We supply customers in more than 140 countries and manufacture in 54 factories in 18 countries. This high level of activity obviously calls for constant advances in technical know-how and constant expansion of our product range. OSRAM therefore invests five percent of its annual turnover in research, in the further development of existing products and in the development of new products.

OSRAM is your partner

The rapid pace of technical developments is also a challenge for the retail trade. We therefore back up our innovations with specific training and advertising activities and with technical information, which can be found for example on the Internet at www.osram.com or on our e-business platform at www.myosram.com.

OSRAM has the right to use the SYLVANIA brand name worldwide for automotive lamps and special products. For general lighting, OSRAM has the right to use the SYLVANIA brand name in the USA, Canada and Mexico, while SLI Europe holds the brand rights in all other countries.



OSRAM – a world leader in modern automotive lamps

The OSRAM "Automotive Lighting" division is the world's number one in vehicle lamps. With our innovative technology, quality without compromise and an insistence on the highest standards of workmanship, durability and environmental protection, we have rightly become a supplier of original lamps to almost every major car manufacturer in the world. Half of all the cars manufactured in the world are now supplied with lamp systems from OSRAM.

Vehicle lamps from OSRAM are particularly durable, bright and offer high levels of contrast. They are also much safer than international standards require. Our highly qualified employees, our high-precision, computer-controlled production facilities and our extensive quality control procedures ensure that our products meet the highest quality standards.

Meeting the highest demands – and that includes the spare parts market

For the spare parts market, OSRAM produces lamps of the highest quality in accordance with relevant standards and the guidelines specified by car manufacturers for equipping new vehicles. The OSRAM name stands for original spare parts in OEM quality to EC Directive 1400/2002.

OSRAM is therefore a powerful and reliable partner not only for international automotive lamp retailers but also for qualified repair shops.







OSRAM – a partner for retailers

OSRAM offers retailers extensive support at various levels. You will benefit not only from the high quality of the lamps and the power of the OSRAM brand but also from our tailor-made advertising and training activities. What's more, our highly developed logistics system means we can offer a reliable worldwide shipment service. We can therefore offer you enormous sales potential with excellent profit margins.

Active, attractive and assertive: sales promotion at the POS

Attractive posters, flyers and give-aways help promote sales and are offered to retailers free of charge. We can also provide counter and floor displays for the most important types of lamp. They take up very little space but certainly

catch the eye. The counter displays with the transparent duo packs, for example, are particularly "enlightening": after all, headlight lamps should always be replaced in pairs.

Practical sales support: the retail cabinet for automotive lamps

The rugged automotive lamp cabinet (ALC) with its integrated lamp tester and easy-change advertising motifs is a real eye-catcher which will draw your customers' attention to the latest offers. The cabinet can be stocked with 12V and 24V lamps to suit your needs.



Professional support right from the start: the "all-round care package"

Each time an innovative product is launched, OSRAM offers you its "all-round care package" so you can obtain the most important advertising material quickly and easily. Displays, folders, posters and advertisements are available to give your customers all the information they need on the new products and encourage them to buy.

OSRAM has the most convincing arguments

To communicate the quality of our products both inside and outside the retail trade, we have been successfully using a mix of advertising and consumer information for many years. For example, we time advertising campaigns to coincide with the launch of new automotive lamps to maximise demand for these products.

B2B advertising – comprehensive information for our retail partners

To keep our partners fully informed we offer B2B advertising that contains much more detail than the advertising aimed at consumers. This means you will be fully prepared to answer any questions your customers may have.

Customer-specific activities

To promote the sale of specific OSRAM products, we develop individual activities tailored to the specific requirements of different target groups. These include attractive discount and seasonal product campaigns of an exclusive nature.

Special services for retailers

OSRAM also supports retailers with some innovative solutions in electronic ordering – and on various levels.
OSRAM is TecCom-compatible, for example. All the article data is available in TecDoc. Our ordering system also supports the CAP message standard. If need be, we can set up classic EDI networks.

For information about OSRAM products go to www.osram.com or the e-business platform www.myosram.com, where you can also place orders. And if you prefer to get your information in a more "conventional" way, you should take a look at our tried and trusted stock list. The list will show you the various makes and models of cars, the relevant OSRAM lamp and important product information. This will enable you to provide specific advice and will give your customers a feeling of confidence.





Fit for the future: innovations from OSRAM

Companies recognised throughout the world as market leaders have one thing in common. They have a strong focus on innovation. For this reason, we at OSRAM invest five percent of our turnover year after year in the further development of existing products and research into new, pioneering technologies.

Greater safety in the 24V sector: OSRAM TRUCKSTAR™

OSRAM's focus on innovation brings tangible benefits particularly for professional drivers. A good example is the OSRAM TRUCKSTAR™, which has been specially developed for long-distance driving. It focuses up to 100 % more light on the road than conventional halogen lamps in the all-important area between 50 and 75 metres in front of the vehicle.

This is a major benefit for truck and bus drivers who regularly drive long distances at night. Better vision reduces the risk of driver fatigue and therefore greatly improves road safety.

Replacement made simple: OSRAM SNAP™LITE™

Replacing automotive lamps is often difficult and time-consuming. It's often a case of fumbling around blindly with plugs, clips and cables in the tightest of spaces. From 2005, things will be very different thanks to the new generation of innovative OSRAM SNAP™LITE™ lamps. With their cleverly designed bases, these lamps are really easy to install and remove. They just need to be twisted through 30 degrees to fasten them in position and make electrical contact.



The considerable savings in time will benefit car manufacturers, repair shops and retailers, and also the users themselves if they ever have to replace lamps on the road.

Total focus on customers

Our close relationships with our customers and the spirit of trust that exists between us mean that we are in a perfect position to tailor our products to their specific needs. The purpose behind our innovations and developments is to improve not only the performance and safety of the products but also their economy and environmental compatibility.

Focus on design and technology

Customer demands are increasing year after year – particularly as far as modern car design is concerned. After all, cars are sold not only on their technology but on their looks. With our cleverly designed, innovative products and further developments of our existing products we are creating the technological platform today for the visionary concepts of tomorrow. An outstanding example is the new XENARC® D1 system. This is a

space-saving and highly versatile solution for operating high-performance XENARC® gas discharge lamps and provides car designers with even more freedom to create innovative styling.

These are just a few examples of trendsetting solutions that underline our global technological leadership. We achieve some 40 percent of our turnover with innovative products. This is the philosophy that has made OSRAM what it is today – a global partner of all the major car manufacturers and system suppliers.





Quality is not to be taken "lightly"

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

OSRAM manufactures for **OSRAM**

One of our principles is to develop as much of our own production facilities as possible. We manufacture major prematerials, develop our own production processes and construct complex, computer-controlled production plants.

Development and manufacture of all products at OSRAM is certified to DIN EN ISO 9001.

The "Automotive Lighting" division and all the lamp manufacturing plants producing for this division are certified to TS 16949 (special quality management requirements for automotive suppliers).

Our aim is to get better and better

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





Think of the environment, act responsibly

As one of the two largest manufacturers of lamps in the world, OSRAM has long been committed to protecting the environment. Our environmental guidelines apply to all OSRAM divisions: "We respect the environment and take responsibility for it. We are careful with natural resources and avoid waste. With our energy-saving lamps and systems we contribute to environmental protection throughout the world."¹⁾

Here, we are pursuing objectives that are not just ecological but also social. We put the greatest possible emphasis on environmental protection throughout the entire lives of all our products – from manufacture, through actual use to final disposal. This includes the use of environmentally friendly raw materials, the development of energy-saving products, reduction of waste in production, efficient packaging and economical use of energy in all production processes.

In production and material selection, OSRAM not only meets all the statutory requirements, it exceeds them – in some cases by considerable margins.

90% recycling instead of 100% waste

Recycling is also of major importance to OSRAM. Even when they come to the end of their lives, lamps are useful for the valuable raw materials they can provide. For more information on lamp recycling go to www.osram.com.

Since 1996, our factories throughout the world have been certified, one by one, to ISO 14001, the international standard for environmental management systems.

Self-regulation

As a company with great environmental awareness, OSRAM goes beyond the statutory bans on dangerous substances and avoids or at least minimises the use of those substances that are harmful to the environment but are still permitted. What's more, OSRAM researchers are constantly looking for suitable alternatives.



For more information on light and the environment go to www.osram.com



 Cf. the OSRAM environmental guidelines at www.osram.com/about us/environment/





The same rights for everyone for greater safety

OSRAM has always focused on high product quality, and the health and safety of the consumers of its products. The new directive on product safety¹⁾, which came into force on January 15, 2004, creates the same conditions in all EU member states and standardises the safety requirements relating to products. The directive promises greater safety and transparency for the consumer.

To meet our obligations arising from this directive, we provide information on our products on the products themselves, on the packaging and on the leaflets enclosed with the products. Because there are so many different languages in the EU we use self-explanatory pictograms.





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

Switch off lights before

replacing lamp



Lamp cannot be dimmed



2. □□ ↔ [



Do not use the lamp if the glass bulb is scratched or damaged



Caution: hot



Operate only in shielded luminaires



Wear suitable gloves when fitting or removing



High levels of UV radiation



Wear suitable goggles when fitting or removing



Ignition procedure for lamps with external igniter



Do not throw away with household waste



Dangerous voltage



Electronic control gear should be installed and maintained only by qualified electricians



Protect against splashes

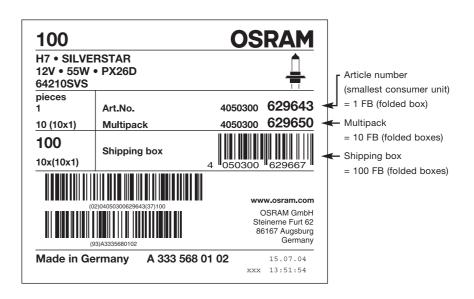
Directive 2001/95/EC of the European Parliament and of the Council of December 3, 2001.



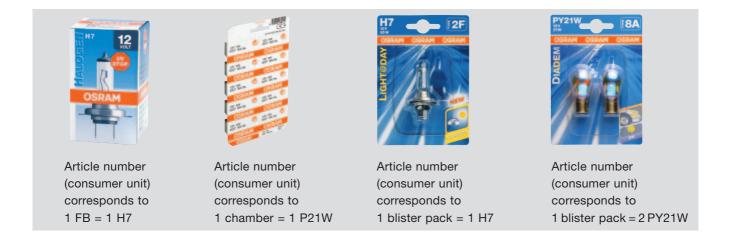
Ordering by EAN code

OSRAM has switched from the old order numbers to EAN codes. As far as you are concerned, this means that you should now quote the EAN code instead of the old order number in all orders, enquiries and so on.

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



How many lamps do you order with the article number?







Jeff T., Sussex, taxi driver:

"I'm often on the road at night. With OSRAM SILVERSTAR® lamps I feel much safer because they light up the road much further ahead and I have more time to react."

OSRAM SILVERSTAR® – more power, greater safety

Clear good looks

Cars are being made safer and safer – and this applies also to their lighting. To meet growing demands from car drivers, OSRAM has developed the SILVERSTAR® range of automotive lamps.

Exceptional specifications

Thanks to their special technology and depending on the type of headlight, OSRAM SILVERSTAR® lamps, in the crucial zone 50 to 75 m in front of the vehicle, shine up to 50% more light on the road ahead than standard halogen lamps. The fact that the cone of light is up to 20 metres longer offers even greater safety. Obstacles and other dangers can be seen sooner and better, as can road signs and markings.

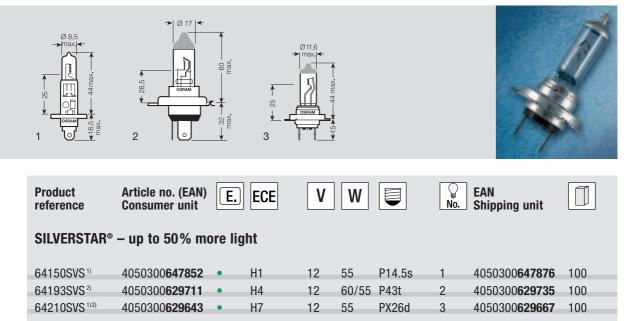
This impressive improvement in performance is matched by stylish design. OSRAM H4 and H7 SILVERSTAR® vehicle lamps are equipped with silver caps that blend in with the background of the reflector. Unlike many of the cheap lamps, they maintain this effect throughout their lives. OSRAM SILVERSTAR® lamps are therefore ideal in modern clear-glass headlights. The perfect vehicle lamp for all drivers who value not only greater safety but also good looks.

- Up to 50% more light on the road¹⁾
 Cone of light up to 20m longer¹⁾
- Ideal light for the night

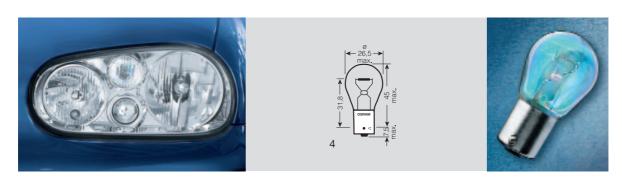


¹⁾ Compared with standard lamps (depending on the headlight system)

OSRAM SILVERSTAR® – more power, greater safety



The perfect companion to OSRAM SILVERSTAR®—the DIADEM® indicator lamp



DIADEM® inc	dicator lamp: interfe	rence layer	r for n	eutra	l appearanc	e an	d amber signal li	ght
7507LDA	4050300 833606 •	PY21W	12	21	BAU15s	4	4050300 539324	200

DIADEM® lamps have the most advanced interference coating. The surface of DIADEM® lamps therefore has an opal appearance. The lamp only appears amber when it flashes. This design effect is ideal for all indicator lights with clear covers.

¹⁾ Lamps comply with ECE R 37 and SAE (DOT) regulations

²⁾ With silver cap



Akiko K., Tokyo, carpenter:

"Unfortunately, my Golf can't be upgraded with xenon headlights, but I've recently fitted OSRAM COOL BLUE®. The light is really bright and blue, just like a xenon lamp."

- The "bluest" of the blue lamps (up to 4000 K)
- Up to 20 % more light 1)
- Light and design in perfect harmony

OSRAM COOL BLUE® high-contrast, bluish-white light

In choosing the colour of their headlight lamps, many drivers are opting for "blue" light - and not only for aesthetic reasons. With a colour temperature of 4000 K, COOL BLUE® from OSRAM can be counted among the best of the blues. The bluish-white, high-contrast light is prettier, closer to natural daylight and therefore easier on the eye than the light from conventional headlight lamps. It therefore has almost the same effect as a xenon lamp.

Safety for style-conscious drivers

The safety aspect also plays an important role because cars with OSRAM COOL BLUE® lamps are more noticeable to other drivers.

Compared with normal headlight lamps, they offer a subjective impression of up to 20% more light on the road and road-

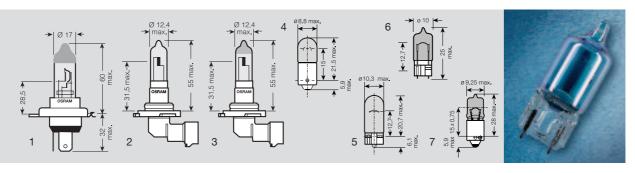
Cool design for a clear view

Certain types of COOL BLUE® lamps from OSRAM are real eye-catchers. The ones fitted with silver caps blend perfectly with the reflector in clear-glass headlights.



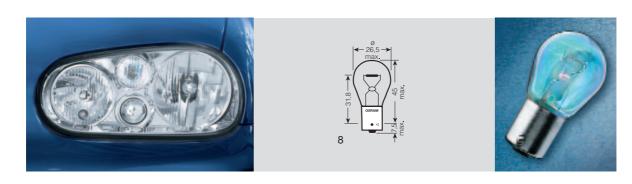
¹⁾ Compared with standard lamps (depending on the headlight system)

OSRAM COOL BLUE® – high-contrast, bluish-white light



Product reference	Article no. (EAN) Consumer unit	E.	ECE	V	W		No.	EAN Shipping unit	
COOL BLUE® -	- designer lamp	s with	a bluish	-white	light	colour			
64150CB ¹⁾	4050300 575209	•	H1	12	55	P14.5s	1 p. 21	4050300 575223	100
64151CB ¹⁾	4050300 647920	•	Н3	12	55	PK22s	3 ^{p. 21}	4050300 647944	100
64193CB ²⁾	4050300 552255	•	H4	12	60/55	P43t	1	4050300 552279	100
64210CB ¹⁾²⁾	4050300 580197	•	H7	12	55	PX26d	4 ^{p. 21}	4050300 580210	100
9003CB 1)2)	4050300 575179	•	HB23/H4	12	60/55	P43t	1	4050300 575193	100
9005CB ¹⁾	4050300 189673	•	HB3	12	60	P20d	2	4050300 189680	100
9006CB 1)2)	4050300 189697	•	HB4	12	51	P22d	3	4050300 189703	100
3893CB	4050300 852805	•	T4W	12	4	BA9s	4	4050300 636337	200
2825CB	4050300 841106	•	W5W	12	5	W2.1x9.5d	5	4050300 905594	200
2825HCB	4050300 841144	•	W5W	12	5	W2.1x9.5d	6	4050300 600871	200
64132CB	4050300 841120	•	H6W	12	6	BAX9s	7	4050300 598246	200

The perfect companion to OSRAM COOL BLUE® – the DIADEM® indicator lamp



DIADEM® indicator lamp: interference layer for neutral appearance and amber signal light

7507LDA 4050300833606 • PY21W 12 21 BAU15s 8 4050300539324 200

DIADEM® lamps have the most advanced interference coating. The surface of DIADEM® lamps therefore has an opal appearance. The lamp only appears amber when it flashes. This design effect is ideal for all indicator lights with clear covers.

¹⁾ Lamps comply with ECE R 37 and SAE (DOT) regulations

²⁾ With silver cap

³⁾ SAE category reference, H4 with strict geometrical tolerances





Maria G., Bologna, physician:

"Once, I nearly crashed into another car heavily shaded by trees, so now I always drive with my headlights on during the day. OSRAM LIGHT@DAY® lamps are ideal. They last just as long as my old lamps, even though they're on day and night."

OSRAM LIGHT@DAY® – daytime running light helps prevent accidents

- Lasts up to 3 times longer - Designed for day-and-night operation
- Greater safety thanks to daytime running light

Surveys throughout Europe have shown that 50% of all accidents and 80% of all collisions at cross-roads and junctions happen because drivers see each other too late or not at all. The reasons include glare from oncoming headlights, glare from the sun low in the sky and heavy shade from trees.

See and be seen

If drivers were to drive on dipped headlights even during the day the number of such accidents could be drastically reduced because it would be easier to see other vehicles even if conditions were bad. This was confirmed by a major investigation by the road traffic authorities of Lower Saxony. By introducing daytime running light it should be possible to prevent around 35% of all collisions and around 25% of all fatal accidents.1)

1) Source: Road traffic authorities of Lower Saxony, major investigation, Oct. '98-Sept. '99

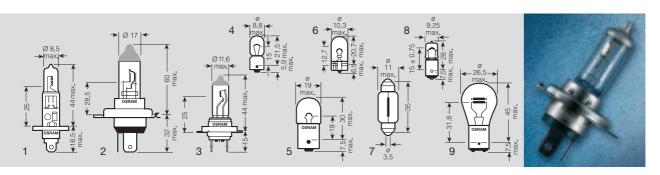
Greater safety, greater durability

Conventional lamps, however, would have to be replaced much more often if they were in use day and night. OSRAM has therefore come up with a special economical solution with its LIGHT@DAY® family of lamps. These lamps have a longer lamp life but despite being used day and night, they need to be replaced only as frequently as standard lamps in normal use.

With their modern design featuring a silver cap (H4/H7), LIGHT@DAY® vehicle lamps are perfect for use in clear-glass headlights. Built-in accident prevention is rarely as attractive as this!

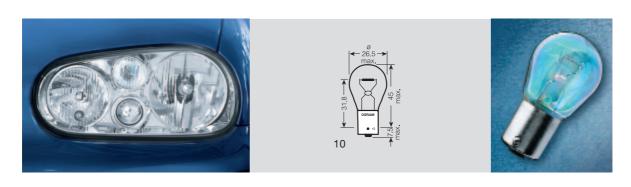


OSRAM LIGHT@DAY® – daytime running light helps prevent accidents



Product reference	Article no. (EAN) Consumer unit	E.	ECE	V	W		No.	EAN Shipping unit				
LIGHT@DAY®	LIGHT@DAY® – automotive lamps for constant use (day and night running light)											
64150D ¹⁾	4050300 773834	•	H1	12	55	P14.5s	1	4050300 773858	100			
64193D ²⁾	4050300 773773	•	H4	12	60/55	P43t	2	4050300 773797	100			
64210D 1)2)	4050300 773711	•	H7	12	55	PX26d	3	4050300 773735	100			
64211D	Projected	•	H11	12	55	PGJ19-2		Projected	100			
3893D	4050300 841618	•	T4W	12	4	BA9s	4	4050300 772967	200			
5007D	4050300 841298	•	R5W	12	5	BA15s	5	4050300 773414	200			
6418D	4050300 833842	•	C5W	12	5	SV8.5-8	7	4050300 773650	200			
2825D	4050300 845661	•	W5W	12	5	W2.1x9.5d	6	4050300 772912	200			
64132D	4050300 842004	•	H6W	12	6	BAX9s	8	4050300 773315	200			
5008D	4050300 841243	•	R10W	12	10	BA15s	5	4050300 773476	200			
7528D	4050300 834443	•	P21/5W	12	21/5	BAY15d	9	4050300 773377	200			

The perfect companion to OSRAM LIGHT@DAY® – the DIADEM® indicator lamp

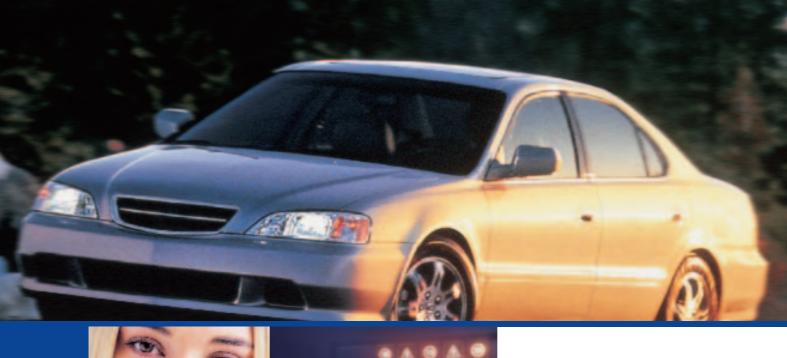


DIADEM® indicator lamp: interference layer for neutral appearance and amber signal light

7507LDA 4050300833606 • PY21W 12 21 BAU15s 10 4050300539324 200

1) Lamps comply with ECE R 37 and SAE (DOT) regulations 2) With silver cap

DIADEM® lamps have the most advanced interference coating. The surface of DIADEM® lamps therefore has an opal appearance. The lamp only appears amber when it flashes. This design effect is ideal for all indicator lights with clear covers.









Mette V., Copenhagen, student:

"The last cheap lamp I bought for my car failed after just six months. Then I tried OSRAM lamps - they've been working for more than two years and they're a lot brighter. I know I can rely on them."

Trusted in millions of cars – **OSRAM STANDARD LINE 12V**

- OEM quality

- Tried and tested millions of times
- Excellent price/performance ratio

Many of the major car manufacturers throughout the world fit STANDARD LINE 12V automotive lamps from OSRAM as standard. And for very good reason - because the lamps in OSRAM's standard halogen range have an excellent price/performance ratio.

Standard halogen automotive lamps good and reliable

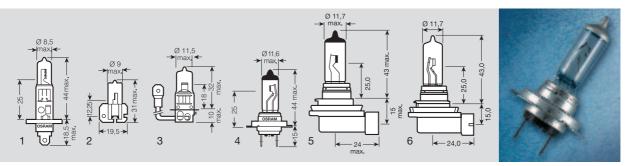
OSRAM makes it easy for you and your customers to decide. Whichever type of lamp you choose, you can be sure that our 12V headlight lamps will last much longer and produce measurably more light than most cheap imports. Whereas the amount of light produced by such lamps often decreases over time, OSRAM standard lamps remain well within the prescribed safety margins from day one until the very end.

So even price-conscious customers will always be satisfied. Thanks to their greater durability, STANDARD LINE 12V lamps from OSRAM are in fact cheaper in the long run.

The power of the OSRAM brand

OSRAM is a lamp manufacturer with a global reputation. On the international automotive lamp market our name stands for high-quality workmanship and exceptional reliability. The STANDARD LINE 12V from OSRAM meets the high demands placed on automotive lamps today. This family of lamps is therefore ideal for drivers looking for a tried and tested solution to meet standard requirements.

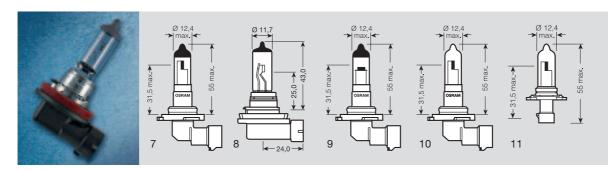




Product reference	Article no. (EAN) Consumer unit	E.	ECE	V	W		No.	EAN Shipping unit	
Single-filar	nent headlight lan	ıps fo	r innova	tive du	ial hea	dlight syst	ems		
64150 ¹⁾	4050300 001487	•	H1	12	55	P14.5s	1	4050300 206837	100
64173	4050300 016559	•	H2	12	55	X511	2	4050300 213590	100
64151 ¹⁾	4050300 001494	•	Н3	12	55	PK22s	3	4050300 211183	100
64210 ¹⁾	4050300 332185	•	H7	12	55	PX26d	4	4050300 332208	100
642121)	4050300 498751	•	H8	12	35	PGJ19-1	5	4050300 498775	100
642131)	4050300 524368	•	H9	12	65	PGJ19-5	6	4050300 524382	100
91451)	4050300 186320	•	H10	12	42	PY20d	7 p. 22	4050300 186337	100
6421111)	4050300 524313	•	H11	12	55	PGJ19-2	8 p. 22	4050300 524337	100
90551)	4050300 193991	•	H12	12	53	PZ20d	9 p. 22	4050300 194011	100
90051)	4050300 137193	•	HB3	12	60	P20d	10 p. 22	4050300 137216	100
9005XS ¹⁾	0046135 320408	•	HB3A	12	60	P20d	11 p. 22	4050300 721996	100
90061)	4050300 012650	•	HB4	12	51	P22d	12 p. 23	4050300 722221	100
9000	+000000012000								
9006XS ¹⁾	On request	s for	HB4A normal I	12 headlig	51 ht sys 1	P22d ems	13 p. 23	On request	
9006XS ¹⁾	On request					ems		On request 4050300 212074	100
9006XS ¹⁾	On request	s for	normal l	headlig	ıht sysi	ems P43t		4050300 212074	100 100
9006XS ¹⁾ Dual-filame 64193	On request ent headlight lamp 4050300 001470	s for	normal I	h eadlig 12	ht syst	P43t	14 ^{p. 23}	4050300 212074	
9006XS ¹⁾ Dual-filamo 64193 9003 ¹⁾	On request ent headlight lamp 4050300001470 4050300308975	s for	normal I H4 HB2	headlig 12 12	60/55 60/55	P43t P43t PX43t	14 ^{p. 23}	4050300 212074 4050300 308999 4050300 439983	100
9006XS ¹⁾ Dual-filamo 64193 9003 ¹⁾ 64185	On request ent headlight lamp 4050300001470 4050300308975 4050300439969	s for	normal I H4 HB2 HS1	12 12 12 12	60/55 60/55 35/35	P43t P43t P43t PX43t P45t	14 p. 23 14 p. 23 15 p. 23	4050300 212074 4050300 308999 4050300 439983 4050300 350578	100 100
9006XS ¹⁾ Dual-filame 64193 9003 ¹⁾ 64185 64183 ²⁾	On request ent headlight lamp 4050300001470 4050300308975 4050300439969 4050300350554	s for	normal I H4 HB2 HS1 R2	12 12 12 12 12	60/55 60/55 35/35 45/40 45/40	P43t P43t P43t PX43t P45t	14 p. 23 14 p. 23 15 p. 23 16 p. 23	4050300 212074 4050300 308999 4050300 439983 4050300 350578	100 100 100
9006XS ¹⁾ Dual-filame 64193 9003 ¹⁾ 64185 64183 ²⁾ 7951	On request ent headlight lamp 4050300001470 4050300308975 4050300439969 4050300350554 4050300001500	s for	H4 HB2 HS1 R2 R2	12 12 12 12 12 12	60/55 60/55 35/35 45/40 45/40 25/25	P43t P43t P43t PX43t P45t P45t	14 p. 23 14 p. 23 15 p. 23 16 p. 23 17 p. 24	4050300 212074 4050300 308999 4050300 439983 4050300 350578 4050300 205113	100 100 100 100
9006XS ¹⁾ Dual-filame 64193 9003 ¹⁾ 64185 64183 ²⁾ 7951 7326 7327 GIGANT® HI	On request ent headlight lamp 4050300001470 4050300308975 4050300439969 4050300350554 405030001500 4050300271248 4050300016375 EAVY-DUTY lamps	s for	H4 HB2 HS1 R2 R2 S1 S2 cial type	12 12 12 12 12 12 12 12 12	60/55 60/55 35/35 45/40 45/40 25/25 35/35	P43t P43t P43t PX43t P45t P45t BA20d BA20d	14 p. 23 14 p. 23 15 p. 23 16 p. 23 17 p. 24 18 p. 24	4050300 212074 4050300 308999 4050300 439983 4050300 205113 4050300 271262 4050300 204994	100 100 100 100 100 100
9006XS ¹⁾ Dual-filame 64193 9003 ¹⁾ 64185 64183 ²⁾ 7951 7326 7327	On request ent headlight lamp 4050300001470 4050300308975 4050300439969 4050300350554 405030001500 4050300271248 4050300016375	s for	H4 HB2 HS1 R2 R2 S1 S2	12 12 12 12 12 12 12 12	60/55 60/55 35/35 45/40 45/40 25/25 35/35	P43t P43t P43t PX43t P45t P45t BA20d BA20d	14 p. 23 14 p. 23 15 p. 23 16 p. 23 17 p. 24 18 p. 24	4050300 212074 4050300 308999 4050300 439983 4050300 350578 4050300 205113 4050300 271262	100 100 100 100 100
9006XS ¹⁾ Dual-filame 64193 9003 ¹⁾ 64185 64183 ²⁾ 7951 7326 7327 GIGANT® HI 94193	On request ent headlight lamp 4050300001470 4050300308975 4050300439969 4050300350554 405030001500 4050300271248 4050300016375 EAVY-DUTY lamps	s for	H4 HB2 HS1 R2 R2 S1 S2 Cial type	12 12 12 12 12 12 12 12 12	60/55 60/55 35/35 45/40 45/40 25/25 35/35	P43t P43t P43t PX43t P45t P45t BA20d BA20d	14 p. 23 14 p. 23 15 p. 23 16 p. 23 17 p. 24 18 p. 24	4050300 212074 4050300 308999 4050300 439983 4050300 205113 4050300 271262 4050300 204994	100 100 100 100 100 100
9006XS ¹⁾ Dual-filamo 64193 9003 ¹⁾ 64185 64183 ²⁾ 7951 7326 7327 GIGANT® HI 94193 Lamps for	On request ent headlight lamp 4050300001470 4050300308975 4050300439969 405030001500 4050300271248 4050300016375 EAVY-DUTY lamps 4050300019161	s for	H4 HB2 HS1 R2 R2 S1 S2 Cial type	12 12 12 12 12 12 12 12 12	60/55 60/55 35/35 45/40 45/40 25/25 35/35	P43t P43t P43t PX43t P45t P45t BA20d BA20d	14 p. 23 14 p. 23 15 p. 23 16 p. 23 17 p. 24 18 p. 24	4050300 212074 4050300 308999 4050300 439983 4050300 205113 4050300 271262 4050300 204994	100 100 100 100 100 100
9006XS ¹⁾ Dual-filame 64193 9003 ¹⁾ 64185 64183 ²⁾ 7951 7326 7327 GIGANT® HI 94193	On request ent headlight lamp 4050300001470 4050300308975 4050300439969 4050300350554 405030001500 4050300016375 EAVY-DUTY lamps 4050300019161 position and parki	s for - spe	H4 HB2 HS1 R2 R2 S1 S2 cial type H4 hts	12 12 12 12 12 12 12 12 12	60/55 60/55 35/35 45/40 45/40 25/25 35/35	P43t P43t P43t PX43t P45t P45t BA20d BA20d	14 p. 23 14 p. 23 15 p. 23 16 p. 23 17 p. 24 18 p. 24 None	4050300 212074 4050300 308999 4050300 439983 4050300 205113 4050300 271262 4050300 204994 4050300 250601	100 100 100 100 100 100 100

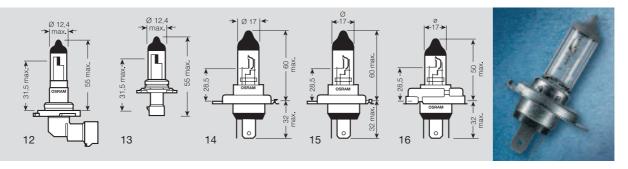
¹⁾ Lamps comply with ECE R 37 and SAE (DOT) regulations

²⁾ Successor to the BILUX® AS® lamp (product reference 7951)

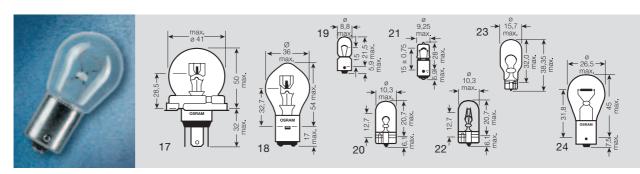


Product reference	Article no. (EAN) Consumer unit	E.	ECE	V	W		No.	EAN Shipping unit	
Indicator la	mps								
2825	4050300 842912	•	W5W	12	5	W2.1x9.5d	20 p. 24	4050300 514314	200
28271)	4050300 842790	•	WY5W	12	5	W2.1x9.5d	22 p. 24	4050300 170121	200
921	On request	•	W16W	12	16	W2.1x9.5d	23 p. 24	On request	
7506	4050300 833446	•	P21W	12	21	BA15s	24 p. 24	4050300 173238	200
75071)	4050300 835174	•	PY21W	12	21	BAU15s	25 p. 25	4050300 173498	200
64136	4050300 834825	•	H21W	12	21	BAY9s	26 p. 25	4050300 171814	200
3156	On request	•	P27W	12	27	W2.5x16d	27 p. 25	On request	
3157	On request	•	P27/7W	12	27/7	W2.5x16q	28 p. 25	On request	
Indicator, b	rake, fog and reve	ersing	light lam	ps					
921	On request	•	W16W	12	16	W2.1x9.5d	23 p. 24	On request	
7506	4050300 833446	•	P21W	12	21	BA15s	24 p. 24	4050300 173238	200
64136	4050300 834825	•	H21W	12	21	BAY9s	26 p. 25	4050300 171814	200
7505	4050300 852997	•	W21W	12	21	W3x16d	31 p. 25	4050300 556444	200
7225	4050300 833583	•	P21/4W	12	21/4	BAZ15d	29 p. 25	4050300 173832	200
7528	4050300 834849	•	P21/5W	12	21/5	BAY15d	29 p. 25	4050300 514222	200
7515	4050300 853017	•	W21/5W	12	21/5	W3x16q	30 p. 25	4050300 556468	200
3156	On request	•	P27W	12	27	W2.5x16d	27 p. 25	On request	
3157	On request	•	P27/7W	12	27/7	W2.5x16q	28 p. 25	On request	
Reversing,	brake and fog ligh	nt lam	i ps R5W	12	5	BA15s	32 ^{p. 25}	4050300 169422	200
6418	4050300 833903	•	C5W	12	5	SV8.5-8	33 p. 24	4050300 513638	200
5008	4050300 841274		R10W	12	10	BA15s	32 p. 25	4050300 513546	200
5009	Projected		RY10W	12	10	BAU15s	34 p. 24	Projected Projected	200
921	On request		W16W	12	16	W2.1x9.5d	23 p. 24	On request	200
7506	4050300 833446		P21W	12	21	BA15s	24 p. 24	4050300 173238	200
7225	4050300 833583		P21/4W	12	21/4	BAZ15d		4050300 173832	200
7528 7515	4050300 834849	•	P21/5W	12	21/5	BAY15d	29 p. 25	4050300 514222	200
7515	4050300 853017	•	W21/5W	12	21/5	W3x16q	30 p. 25	4050300 556468	200
3156	On request	•	P27W	12	27	W2.5x16d	27 p. 25	On request	
3157	On request	•	P27/7W	12	27/7	W2.5x16q	28 p. 25	On request	

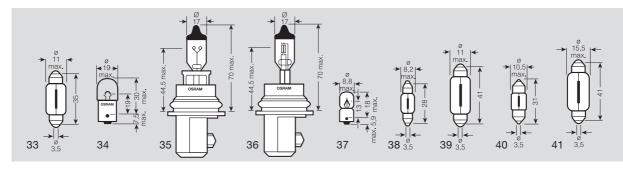
¹⁾ Amber lamp for clear indicators



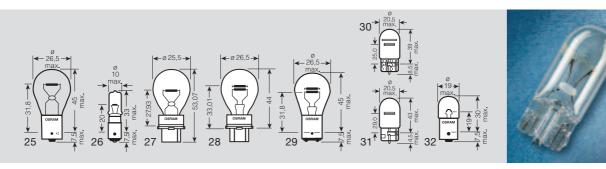
Product reference	Article no. (EAN) Consumer unit	E.	ECE	SAE	V	W		No.	EAN Shipping unit	
Number pl	ate and side pos	ition li	ight lan	nps						
3893	4050300 847689	•	T4W		12	4	BA9s	19 p. 24	4050300 516899	200
5007	4050300 841472	•	R5W		12	5	BA15s	32 p. 25	4050300 169422	200
6418	4050300 833903	•	C5W		12	5	SV8.5-8	33 p. 24	4050300 513638	200
2825	4050300 842912	•	W5W		12	5	W2.1x9.5d	20 p. 24	4050300 514314	200
5008	4050300 841274	•	R10W		12	10	BA15s	32 p. 25	4050300 513546	200
Lamps wit	thout ECE approve	al for	(import	ed) veh	icles 12	with \$		35 p. 24	4050300 239873	200
9007	4050300 148816			HB5	12		PX29t	36 p. 24	4050300 148830	
3796	4050300 847771				12	2	BA9s	37 p. 24	4050300 516851	
3894	4050300 847733				12	3	BA9s	37 p. 24	4050300 172378	200
6428	4050300 847122				12	3	SV7-8	38 p. 24	4050300 171494	
3893	4050300 847689	•	T4W		12	4	BA9s	19 p. 24	4050300 516899	
3860	4050300 843766				12	5	BA9s	19 p. 24	4050300 270333	
5007	4050300 841472	•	R5W		12	5	BA15s	32 p. 25	4050300 169422	
6418	4050300 833903	•	C5W		12	5	SV8.5-8	33 p. 24	4050300 513638	
6413	4008321 008558				12	5	SV8.5-8	39 p. 24	4008321 008572	
2825	4050300 842912	•	W5W		12	5	W2.1x9.5d	20 p. 24	4050300 514314	
5008	4050300 841274	•	R10W		12	10	BA15s	32 p. 25	4050300 513546	
6461	4050300 835679				12	10	SV8.5-8	33 p. 24	4050300 173139	
6411	4050300 835754				12	10	SV8.5-8	39 p. 24	4050300 513614	
6438	4008321 008480				12	10	SV8.5-8	40 p. 24	4008321 008503	
6475	4008321 008121		C01W		12	18	SV8.5-8	41 p. 24	4008321 008145	
6476	4008321 008343		C21W		12	21	SV8.5-8	41 p. 24	4008321 008367	200



Product reference	Article no. (EAN) Consumer unit	E.	ECE	V	W		No.	EAN Shipping unit	
MINIVENAL				6	In a 2012 a		III. II.	 3	
WINIXEN® 18	amps with increas	sea iur	ninous t	iux tor	brillia	int reading	lignt		
3886X	4050300 841960			12	6	BA9s	19	4050300 517568	200
6486X	4050300 833729			12	6	SV8.5-8	33	4050300 172774	200
2886X	4050300 842868			12	6	W2.1x9.5d	20	4050300 170244	200
MINIWATT®	halogen lamps fo	r brilli	ant whit	e read	ing lig	ht			
64111 ¹⁾	4050300 845807			12	5	BA9s	42 p. 25	4050300 171586	200
64113 ¹⁾	4050300 845609			12	10	BA9s	42 p. 25	4050300 171623	200
64115	4050300 844794			12	20	BA9s	42 p. 25	4050300 171623	200
04113	4000000 044734			12	20	DA95	42'	4030300171047	200
Lamne for i	nstrument lightin	n and	cwitche						
Lamps for i	iiisti uiiiteiit iigiitiii	y anu	SWILCIIG	•					
2721	4050300 842769			12	1.2	W2x4.6d	43 p. 25	4050300 169385	200
2731	On request			12	1.5	W2x4.6d	43 p. 25	On request	
3796	4050300 847771			12	2	BA9s	37	4050300 516851	200
2722	4050300 842714			12	2	W2x4.6d	43 p. 25	4050300 169903	200
2820	4050300 843032			12	2	W2.1x9.5d	20	4050300 170145	200
2723	4008321 013361	•	W2.3W	12	2.3	W2x4.6d	43 p. 25	4008321 013385	200
3894	4050300 847733			12	3	BA9s	37	4050300 172378	200
2821	4050300 842950	•	W3W	12	3	W2.1x9.5d	44 p. 25	4050300 170169	200
3893	4050300 847689	•	T4W	12	4	BA9s	19	4050300 516899	200
3860	4050300 843766			12	5	BA9s	19	4050300 270333	200
0000	.000000010100			12	3	5,100	, 0	1000000210300	



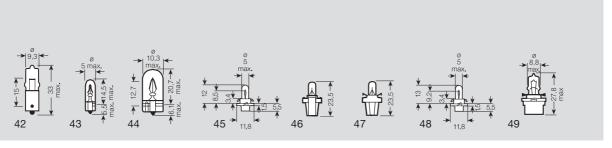
¹⁾ Also available with glass base (product reference 6411150 or 6411350)



Product reference	Article no. (EAN) Consumer unit	COLOR	V	W		No.	EAN Shipping unit	
Lamps for in	nstrument lighting v	with holder fo	r us	e in pri	nted circ	uit boa	rds	
2473MFX6	4050300 843179	Pastel orange	12	1.1	BX8.4d	45	4050300 170893	200
2721MF8	4050300 842288	Jet black	12	1.2	B8.3d	46	4050300 170671	200
2721MF	4050300 842370	Jet black	12	1.2	B8.5d	47	4050300 170596	200
2351MFX6	4050300 843599	Jet black	12	1.2	BX8.4d	45	4050300 170831	200
2721MFX	Projected	Light blue	12	1.2	BX8.5d	47	Projected	200
2431MFX6 ¹⁾	4050300 538297	Olive green	12	1.3	BX8.4d	48	4050300 538303	200
2752MF	4008321 014917	Beige	12	1.5	B8.5d	47	4008321 014931	200
2452MFX6	4050300 843506	Beige	12	1.5	BX8.4d	45	4050300 170879	200
2752MFX	Projected	Melon yellow	12	1.5	BX8.5d	47	Projected	200
2722MF8	4050300 842196	Pure white	12	2	B8.3d	46	4050300 172699	200
2722MF	4050300 842233	Lime green	12	2	B8.5d	47	4050300 170695	200
2352MFX6	4050300 843544	Pale green	12	2	BX8.4d	45	4050300 170855	200
2722MFX	Projected	Pale green	12	2	BX8.5d	47	Projected	200
64122MF	4050300 844015	Brown	12	3	B10d	49	4050300 171678	200
64122MFX	Projected	Brown	12	3	B10d	49	Projected	200
64124MF	4050300 845029	Black	12	5	B10d	49	4050300 171715	200
64124MFX	4050300 844985	Black	12	5	BX10d	49	4050300 173351	200

The final element of the product reference indicates the thickness of the printed circuit board:

MFX: 1.5 mm MFX6: 1.5 mm MF: 2.0 mm MF8: 2.0 mm



1) LCL = 9.2 mm



Jacques A., Lille, truck driver:

"As a professional driver my motto is: the brighter the better. Since I changed the lamps on my truck for OSRAM TRUCKSTAR™, I don't get tired as quickly on night-time journeys and I feel a lot safer."

OSRAM TRUCKSTAR™ – twice as long, twice as bright

means they can assess danger more quickly.

As the world's largest manufacturer of headlight lamps, we have made yet another quantum leap with our OSRAM TRUCKSTAR™ lamps. Thanks to their patented single-coil (SC) technology, their light is up to 100% brighter than that of conventional 24V lamps. They also last twice as long.

Better light from SC technology

The significant improvement in performance is the result of applying single-coil technology to headlight lamps. More uniform light and better illumination of the road lead to greater safety. Drivers on long journeys at night do not get tired as quickly. Drivers are more relaxed thanks to a light beam that is up to 40m longer and up to 100% brighter, which

Longer life saves time and money

Conventional lamps often fail prematurely when they are fitted to trucks because of the vibrations they have to endure. The reasons for such vibrations include harder suspension, greater engine vibrations and driving on poor-quality roads. With the new coil and its optimised mounting, OSRAM has succeeded in improving vibration strength overall and significantly reducing the failure rate. Users therefore save a great deal of time and money because the lamps do not have to be replaced as often.

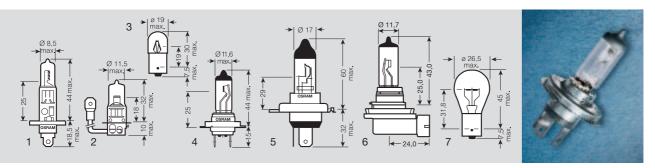
24

- Up to 100% more light on the road $^{\circ}$

Up to 100% longer lamp life¹⁾
 Rugged and durable (heavy duty)

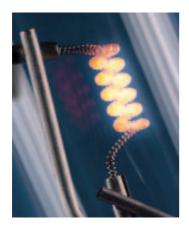
1) Compared with standard lamps (depending on the headlight system)

OSRAM TRUCKSTAR™ – twice as long, twice as bright

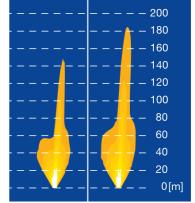


Product reference	Article no. (EAN) Consumer unit	E.	ECE	V	W		No.	EAN Shipping unit			
OSRAM TRUCKSTAR™ – 100% more light, 100% longer life											
64155LTS	4008321 004093	•	H1	24	70	P14.5s	1	4008321 004116	100		
64156LTS	4008321 004123	•	Н3	24	70	PK22s	2	4008321 004147	100		
64196LTS ¹⁾	Projected	•	H4	24	75/70	P43t	5	Projected	100		
64215LTS	4008321 004246	•	H7	24	70	PK26d	4	4008321 004260	100		
64216LTS ¹⁾	Projected	•	H11	24	70	PGJ19-2	6	Projected	100		
3930LTS 1)	Projected	•	T4W	24	4	BA9s	9 p. 30	Projected	200		
5627LTS ¹⁾	Projected	•	R5W	24	5	BA15s	3	Projected	200		
5637LTS 1)	Projected	•	R10W	24	10	BA15s	3	Projected	200		
7511LTS ¹⁾	Projected	•	P21W	24	21	BA15s	7	Projected	200		
7510LTS ¹⁾	Projected	•	PY21W	24	21	BAU15s	13 p. 30	Projected	200		
Replaces the OSRAM GIGANT® HEAVY-DUTY family of lamps.											

OSRAM TRUCKSTAR™ – brighter light, better visibility, longer life and increased safety. Almost any make of truck can be fitted with these innovative lamps from OSRAM.







Innovation made by OSRAM: Thanks to the new and patented single-coil technology (above right), the OSRAM TRUCKSTAR $^{\text{TM}}$ will last up to 100% longer than lamps with conventional double coils (above left). ²⁾

Compared with a conventional 24 V lamp (left), the OSRAM TRUCKSTAR™ shines up to 100% more light on the road.²⁾

¹⁾ Planned to be available from 2005

²⁾ Depending on the lamp type



Pavel P., Prague, truck fleet owner:

"When it comes to 24V lamps I rely on STANDARD LINE 24V from OSRAM. The price is right, and so are the quality and performance. After all, I want my drivers to be safe at all times."



Good performance at a fair price -**OSRAM STANDARD LINE 24V**

- OEM quality
- Tried and tested millions of times
- Excellent price/performance ratio

For many customers throughout the world, STANDARD LINE 24V from OSRAM is the first choice in 24V lamps. This level of trust has to be earned. Our customers know that they can expect outstanding quality and reliability from OSRAM automotive lamps - at fair prices.

High-quality materials, perfect workmanship

Some cheap imports are marketed primarily on the basis of their low prices. Quality often suffers as a result. OSRAM customers on the other hand get the best of both worlds: high-quality products at sensible prices. The STANDARD LINE 24V is an excellent example. These standard halogen lamps have to come

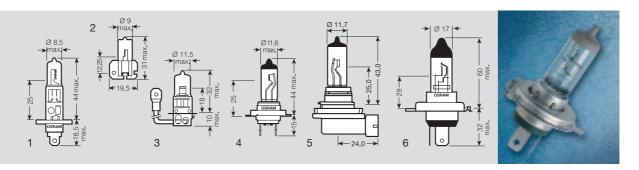
through a series of tests before they are shipped to retailers - and yet they still compete on price.

Safety is all-important

Apart from a good price/performance ratio, the safety of a lamp is obviously an important factor. Some cheap imports suffer from a gradual loss of output, which puts drivers at considerable risk. The smart choice is to go for brand quality, such as STANDARD LINE 24V from OSRAM. In contrast to some cheap imports, these lamps retain their performance right to the end of their life. They are therefore the economical solution for all standard requirements in the 24V sector.



Good performance at a fair price – OSRAM STANDARD LINE 24V

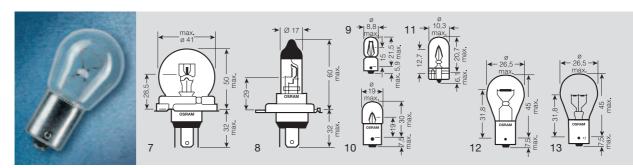


Product reference	Article no. (EAN) Consumer unit	E.	ECE	V	W		No.	EAN Shipping unit	
Single-filam	ent headlight lan	ips fo	r innovati	ive du	al head	dlight syst	ems		
64155	4050300 016498	•	H1	24	70	P14.5s	1	4050300 210148	100
64175	4050300 218960	•	H2	24	70	X511	2	4050300 218984	100
64156	4050300 016535	•	H3	24	70	PK22s	3	4050300 211244	100
64215	4050300 386522	•	H7	24	70	PX26d	4	4050300 386546	100
64216	On request	•	H11	24	70	PGJ19-2	5	On request	
Dual-filamer	it headlight lamp	s for	normal he	eadlig	ht syst	ems			
64196	4050300 016542	•	H4	24	75/70	P43t	6	4050300 212289	100
7952	4050300 016405	•	R2	24	55/50	P45t	7 p. 30	4050300 205151	100
94196	4050300 250632	•	H4	24	75/70	P43t	8 p. 30	4050300 250656	100
Lamps for po	osition and parki	ng lig	hts						
3930	4050300 847566	•	T4W	24	4	BA9s	9 p. 30	4050300 516936	200
5627	4050300 844572	•	R5W	24	5	BA15s	10 p. 30	4050300 173290	200
2845	4050300 846743	•	W5W	24	5	W2.1x9.5d	11 p. 30	4050300 170329	200
Indicator lan	nps								
2845	4050300 846743	•	W5W	24	5	W2.1x9.5d	11 p. 30	4050300 170329	200
7511	4050300 833422	•	P21W	24	21	BA15s	12 p. 30	4050300 173375	200
7510 1)2)	Projected	•	PY21W	24	21	BAU15s	13 p. 30	Projected	200
64138	4050300 834801	•	H21W	24	21	BAY9s	14 p. 31	4050300 171838	200
Indicator, bra	ake, fog and reve	rsing	light lam	ps					
Indicator, bra	ake, fog and reve	ersing	light lam	ps 24	21	BA15s	12 ^{p. 30}	4050300 173375	200
·	, ,	J	· ·		21 21	BA15s BAU15s	12 ^{p. 30}		200
7511	4050300 833422	•	P21W	24				Projected	
7511 7510 ¹⁾²⁾	4050300 833422 Projected	•	P21W PY21W	24 24	21	BAU15s	13 p. 30	Projected	200

¹⁾ Planned to be available from 2005

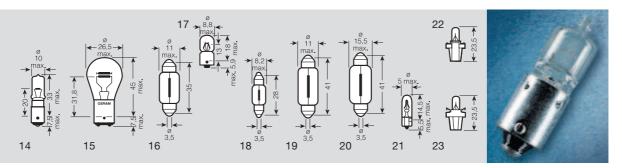
²⁾ Amber lamp for clear indicators

Good performance at a fair price – OSRAM STANDARD LINE 24V



Product reference	Article no. (EAN) Consumer unit	E.	ECE	V	W		No.	EAN Shipping unit				
Reversing,	Reversing, brake and fog light lamps											
5627	4050300 844572	•	R5W	24	5	BA15s	10	4050300 173290	200			
6423	4050300 833880	•	C5W	24	5	SV8.5-8	16 p. 31	4050300 172736	200			
5637	4050300 844497	•	R10W	24	10	BA15s	10	4050300 171210	200			
7511	4050300 833422	•	P21W	24	21	BA15s	12	4050300 173375	200			
7537	4050300 833347	•	P21/5W	24	21/5	BAY15d	15 ^{p. 31}	4050300 173917	200			
Number plate and side position light lamps												
5627	4050300 844572	•	R5W	24	5	BA15s	10	4050300 173290	200			
6423	4050300 833880	•	C5W	24	5	SV8.5-8	16 p. 31	4050300 172736	200			
5637	4050300 844497	•	R10W	24	10	BA15s	10	4050300 171210	200			
Lamps for	interior lighting ar	nd rea	nding ligh	ts								
3797	4050300 847610			24	2	BA9s	17 p. 31	4050300 516912	200			
2840	4050300 846149			24	2	W2.1x9.5d	11	4050300 170268	200			
6430	4050300 841892			24	3	SV7-8	18 p. 31	4050300 171548	200			
	+0000000 0+1002				•	011 0						
6421	4050300 833002			24	3	SV8.5-8	19 ^{p. 31}	4050300 172897	200			
6421 3930			T4W				19 ^{p. 31} 9	4050300 172897 4050300 516936	200 200			
	4050300 833002	•	T4W R5W	24	3	SV8.5-8	. 0					
3930	4050300 833002 4050300 847566			24 24	3	SV8.5-8 BA9s	9	4050300 516936	200			
3930 5627	4050300 833002 4050300 847566 4050300 844572	•	R5W	24 24 24	3 4 5	SV8.5-8 BA9s BA15s	9	4050300 516936 4050300 173290	200 200			
3930 5627 6423	4050300 833002 4050300 847566 4050300 844572 4050300 833880	•	R5W	24 24 24 24	3 4 5 5	SV8.5-8 BA9s BA15s SV8.5-8	9 10 16 p. 31	4050300 516936 4050300 173290 4050300 172736	200 200 200			
3930 5627 6423 6424	4050300 833002 4050300 847566 4050300 844572 4050300 833880 4008321 008459	•	R5W C5W	24 24 24 24 24	3 4 5 5 5	SV8.5-8 BA9s BA15s SV8.5-8 SV8.5-8	9 10 16 ^{p. 31} 19 ^{p. 31}	4050300 516936 4050300 173290 4050300 172736 4008321 008473	200 200 200 200 200			
3930 5627 6423 6424 5637	4050300 833002 4050300 847566 4050300 844572 4050300 833880 4008321 008459 4050300 844497	•	R5W C5W	24 24 24 24 24 24 24	3 4 5 5 5 10	SV8.5-8 BA9s BA15s SV8.5-8 SV8.5-8 BA15s	9 10 16 ^{p. 31} 19 ^{p. 31}	4050300 516936 4050300 173290 4050300 172736 4008321 008473 4050300 171210	200 200 200 200 200 200			

Good performance at a fair price – OSRAM STANDARD LINE 24V



Product reference	Article no. (EAN) Consumer unit	E. ECE	V	W		No.	EAN Shipping unit			
Lamp for instrument lighting and switches										
2741	4050300 842448		24	1.2	W2x4.6d	21	4050300 169866	200		
3797	4050300 847610		24	2	BA9s	17	4050300 516912	200		
2840	4050300 846149		24	2	W2.1x9.5d	11 p. 30	4050300 170268	200		
2841	4050300 846682	W3W	24	3	W2.1x9.5d	11 p. 30	4050300 170305	200		
3930	4050300 847566	T4W	24	4	BA9s	9 p. 30	4050300 516936	200		
5627	4050300 844572 •	R5W	24	5	BA15s	10 p. 30	4050300 173290	200		
5637	4050300 844497	R10W	24	10	BA15s	10 p. 30	4050300 171210	200		
Product- reference	Article no. (EAN) Consumer unit	COLOR	V	W		No.	EAN Shipping unit			

Product- reference	Article no. (EAN) Consumer unit	COLOR	V	W		No.	EAN Shipping unit	
Lamps for ins	trument lighting w	ith holder fo	r use	in prir	nted circui	t boar	ds	
2741MF8	4050300 842103	Slate grey	24	1.2	B8.3d	22	4050300 170794	200
2741MF	4050300 842134	Slate grey	24	1.2	B8.5d	23	4050300 170732	200
2741MFX	Projected	Copper brown	24	1.2	BX8.5d	23	Projected	200

The final element of the product reference indicates the thickness of the printed circuit board:

MFX: 1.5 mm MF: 2.0 mm MF8: 2.0 mm





Manfred S., Hersbruck, farmer and forest manager: "I often have to drive over rough terrain so I need particularly rugged lamps that will withstand the toughest challenges. I rely on high-performance headlight lamps from

High-performance halogen headlight lamps

OSRAM. Nothing else will do. They never let me down."

These rugged high-performance halogen headlight lamps from OSRAM are ideal for illuminating a wide area for close-up work. They are extremely versatile for a wide range of professional applications, such as rescue operations, construction and transport work, agriculture and forestry.

Safety and the law

In the EU, these lamps are not permitted on the roads for safety and legal reasons. This means that they cannot be fitted in "normal" headlights or additional headlights if the vehicle is to be used on public highways. The increased heat from these 100W incandescent lamps may destroy the reflector and diffuser and cause cable fires. Use of these lamps on public roads makes the

vehicle illegal and therefore not covered by insurance.

Alternatives from OSRAM

For drivers who want to upgrade their off-road vehicles with stronger light OSRAM offers a number of legal alternatives - such as the SILVERSTAR® family of lamps. These lamps comply with all statutory requirements and provide illuminances that are up to 50 % higher than normal, specifically in the all-important zone 50 to 75 m in front of the vehicle. And for vehicles with 24V systems, the OSRAM TRUCKSTAR™ is the optimum solution.



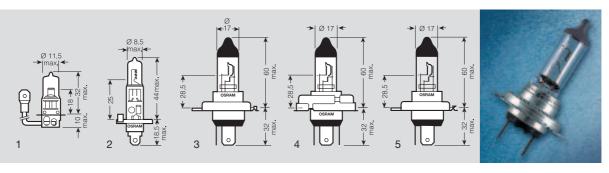
- Best possible illumination of the

machinery and off-road vehicles

- Professional version for all

work area

High-performance halogen headlight lamps



Product reference	Article no. (EAN) Consumer unit	E. ECE	V	W		No.	EAN Shipping unit				
High-performance halogen lamps for professional headlights with coded bases											
64153	4050300 222837		12	100	PKY22s	1	4050300 222851	100			
64152	4050300 222738		12	100	PX14.5s	2	4050300 222752	100			
64194	4050300 225852		12	100/8	30 PU43t	3	4050300 225876	100			
Not permitted on p	Not permitted on public roads. Check national law.										

Product reference	Article no. (EAN) Consumer unit	E. ECE	V	W	No. EAN Shipping unit						
High-wattage headlight lamps for rally and professional headlights											
62200	4050300 247854	H1	12	100 P14.5s	1 ^{p. 21} 4050300 2478	78 100					
62201	4050300 247939	Н3	12	100 PK22s	3 p. 21 4050300 2479	53 100					
62203	4050300 247960	H4	12	100/80 P43t	14 p. 23 4050300 2479	84 100					
642181)	4050300 526188	H7	12	65 PX26d	None 4050300 5261	95 100					
64217	4050300 524399	H7	12	65 PX26d	4 p. 21 4050300 5244	12 100					
7351	4050300 017884	_	12	45/40 BA20d	None 4050300 2050	14 200					
64198	4050300 222028	_	12	60/55 P45t	4 4050300 2220	42 100					
64205	4050300 453767	_	12	70/65 P43t	14 p. 23 4050300 4537	81 100					
64206ALL	4050300 453644	_	12	85/80 P43t	5 4050300 4536	68 100					
64206	4050300 453798	_	12	85/80 P43t	14 p. 23 4050300 4538	11 100					
64203	4050300 239446	_	12	100/80 P45t	4 4050300 2394	60 100					
62203ALL	4050300 528625	_	12	100/80 P43t	5 4050300 5286	49 100					
7529	4050300 833385		24	15 BA15s	None 4050300 1737	33 200					
7244	4050300 833545		24	18/5 BAY15d	None 4050300 1739	79 200					
64199	4050300 219899		24	75/70 P45t	4 4050300 2199	12 100					



Peter B., Vienna, architect:

"As an architect I'm fascinated by XENARC® lamps from OSRAM. With its innovative and reliable arc technology - no filament and no burn-out - it's a great example of a new and better approach."

- The best light for the road
- More light than any halogen lamp
- Longer life than any halogen lamp

OSRAM XENARC® fascination in a new light

State-of-the-art technology is used in the innovative XENARC® lamps from OSRAM. Unlike conventional automotive lamps, XENARC® lamps produce an extremely bright arc of light from an electronically controlled gas discharge. This arc provides about twice as much light as the filament in a halogen lamp - and with a luminous efficacy that is up to 300 % higher. What's more, XENARC® light is whiter thanks to its colour temperature (4100 K) which is closer to that of natural daylight and therefore appears brighter than conventional halogen light (3200 K).

More relaxed driving with brighter light

The very bright light from XENARC® lamps provides greater contrast on the road and roadside. Obstacles and dan-

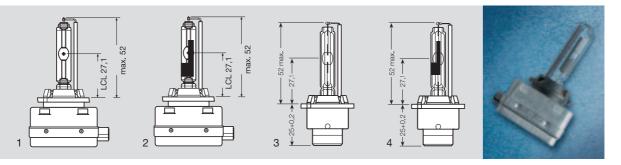
gers can be seen sooner and better, as can signs and other road users. This makes for safer and more relaxed driving - particularly on long, night-time journeys.

XENARC® D1 - even safer, even more compact

In the new XENARC® D1 system the interplay between the lamp and the electronic control gear has been significantly improved. The starter is now accommodated directly in the lamp base, which means the lamp and control gear can be mounted separately from one another. This flexible approach means that more and more vehicles in the future can be equipped or upgraded with XENARC® lamps.



OSRAM XENARC® — fascination in a new light



Product reference	Article no. (EAN) Consumer unit	E.	ECE	V	W		No.	EAN Shipping unit		
XENARC® electronic gas discharge headlight lamps – the revolutionary technology										
661421)2)5)	4050300 893259	•	D1S	4)	35	PK32d-2	1	4050300 893266	10	
661521)3)5)	4008321 902719	•	D1R	4)	35	PK32d-3	2	4008321 902726	10	
66040 1) 2) 5)	4050300 357393	•	D2S	4)	35	P32d-2	3	4050300 357409	10	
66050 1) 3) 5)	4050300 433486	•	D2R	4)	35	P32d-3	4	4050300 433493	10	

Comparison		D2S	D2R	D1S	D1R
Rated wattage	W	35	35	35	35
Luminous flux	lm	3200 6)	2800 6)	3200 6)	2800 6)
Luminous efficacy	lm/W	91	80	91	80
Colour temperature	K	4100	4000	4100	4000
Average luminance of	cd/cm²	6500*	6500*	6500*	6500*
Lamp life	h B ₃	1500	1500	1500	1500
	T_{c}	3000	3000	3000	3000
Filament/arc length	mm	4.2	4.2	4.2	4.2

^{*} Minimum value



In XENARC® electronic D1 technology the igniter is integrated in the lamp base.

Caution: Because of their high voltage, XENARC® and XENAELECTRON® products may only be used in combination with one another and may only be replaced at authorised workshops. Improper use in vehicles may make the vehicle illegal and therefore not covered by insurance.



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

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

¹⁾ Reduced UV emission

²⁾ For projection headlights

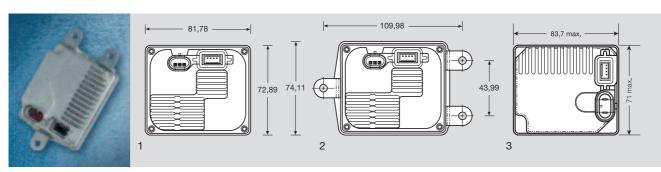
³⁾ With anti-glare strip for reflection headlights

⁴⁾ To be operated only with suitable electronic control gear

⁵⁾ SAE and ECE approved

⁶⁾ \pm 450 lm

OSRAM XENARC® – fascination in a new light



Product reference	Article no. (EAN) Consumer unit	v		Hz A W			°C minmax.				
XENAELECTRON® for XENARC® electronic gas discharge headlight lamps											
XENAELECTRON® XT5-1-D1/12V XENAELECTRON® XT5-3-D1/12V TAB XENAELECTRON® 35W XT-D1/24V XENAELECTRON® 35W XT-D1/24V TAB	4008321 015686 4008321 015709 4050300 806235 4050300 806259	D1S & D1R D1S & D1R D1S & D1R D1S & D1R	12 12 24 24	500 500 400 400	15 15 8 8	41 ¹⁾ 41 ¹⁾ 42 ¹⁾ 42 ¹⁾	-40 105 -40 105 -40 105 -40 105				

Product reference	[mm]	b [mm]	h [mm]	g	No.	EAN Shipping unit	
XENAELECTRON® XT5-1-D1/12V	82	73	25	106	1	4008321 015693	40
XENAELECTRON® XT5-3-D1/12V TAB	125	74	25	116	2	4008321 015716	40
XENAELECTRON® 35W XT-D1/24V	84	70	30	280	3	4050300 806242	40
XENAELECTRON® 35W XT-D1/24V TAB	124	74	32	320	4 p. 37	4050300 806266	40
The control gears comply with type of protection IP X7.							

The OSRAM D1 system consists of the OSRAM XENAELECTRON® XT5-D1/12 V control gear, a power supply cable between the control gear and the lamp and the OSRAM D1 XENARC® electronic lamp.

Caution: Because of their high voltage, XENARC® and XENAELECTRON® products may only be used in combination with one another and may only be replaced at authorised workshops. Improper use in vehicles may make the vehicle illegal and therefore not covered by insurance.

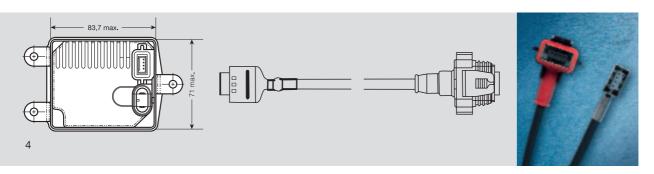
D1-HID system properties

- Perfectly matched to OEM automotive requirements
- Compact design of the XENAELECTRON® control gear
- Reduction in high voltage on the connecting cable by a factor of more than 20
- Highly flexible connecting cable between the control gear and the lamp
- Elimination of the costly and critical high-voltage plug connections on the lamp
- Optimised and integrated high-voltage igniter in the protected lamp base
- Tried and tested lamp technology based on the D2 lamp

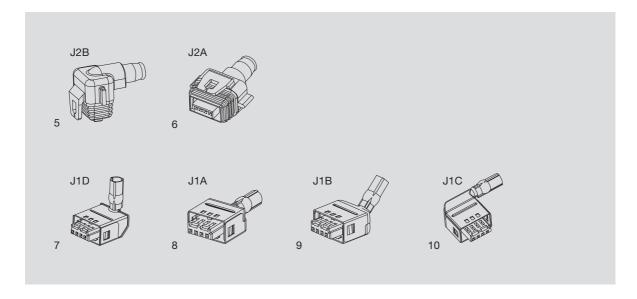
XENARC® electronic D1S/R, the XENAELECTRON® control gear and the associated connecting cables form a perfectly matched system from OSRAM.

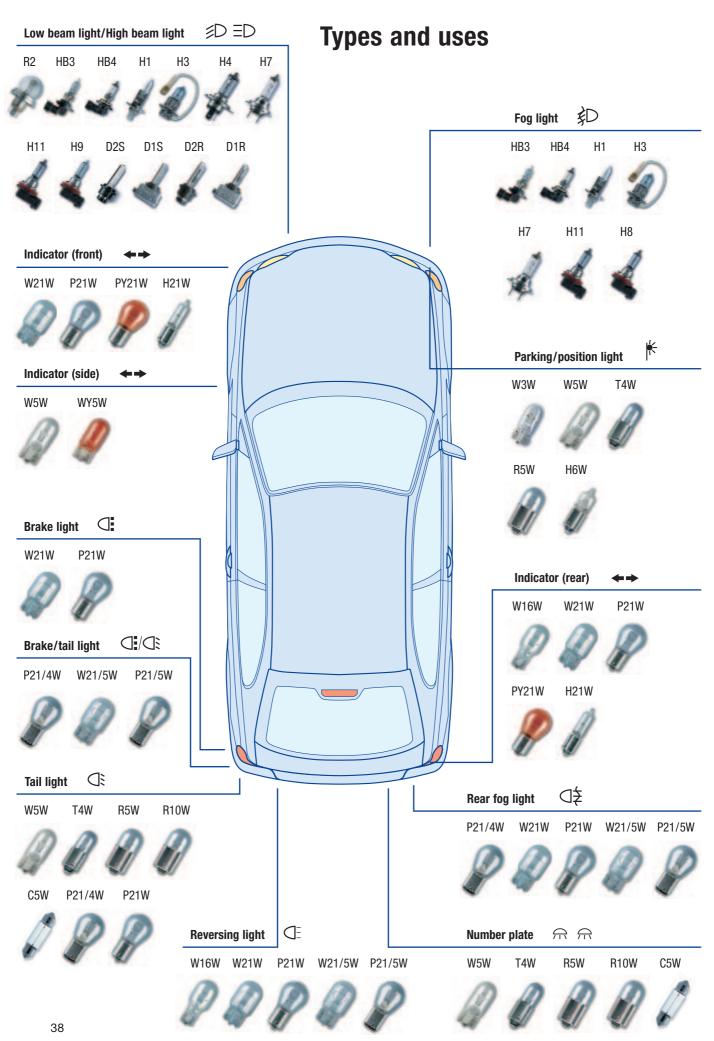
¹⁾ For operating an OSRAM D1 XENARC® electronic 35 W gas discharge lamp

OSRAM XENARC® — fascination in a new light



Product- Reference	Article no. (EAN) Consumer unit	I [mm]	Lamp	No.	₽ —ECG	No.	EAN Shipping unit			
Cable for XENAELECTRON® control gear										
Input Connector	4050300 942797	900	_	_	_	_	4050300 942797	10		
32340 Connecting cable	4050300 942704	390	J1A	8	J2A	6	4050300 942704	40		
32342 Connecting cable	4050300 942711	540	J1A	8	J2A	6	4050300 942711	40		
32344 Connecting cable	4050300 942728	390	J1A	8	J2B	5	4050300 942728	40		
32346 Connecting cable	4050300 942735	150	J1A	8	J2B	5	4050300 942735	40		
32350 Connecting cable	4050300 942742	280	J1B	9	J2B	5	4050300 942742	40		
32356 Connecting cable	4050300 942759	170	J1C	10	J2B	5	4050300 942759	40		
32358 Connecting cable	4050300 942766	300	J1C	10	J2B	5	4050300 942766	40		
32360 Connecting cable	4050300 942773	240	J1D	7	J2A	6	4050300 942773	40		
32362 Connecting cable	4050300 942780	800	J1D	7	J2B	5	4050300 942780	40		
Cables may be up to 1.20 m long.										
Other cable versions available on reques	st.									





Summary: 12V lamp applications

ECE	Product refer- ence	Low beam light	High beam light	Fog light	Parking/ position light	Indica- tor (front)	Indica- tor (rear)	Indica- tor (side)	Tail light	Brake/ tail light	Brake light	Rear fog light	Revers- ing light	Number plate	Page
W3W	2821				*										24
W5W	2825				*			+ +	Q:					A A	21 ff., 45
WY5W	2827							+ +							22
W16W	921						+ +						Œ		22
T4W	3893				*				□ i					≘ ≘	21, 23f.
R5W	5007				*				Q:					≘ ≘	22f., 45
R10W	5008								Q:					≘ ≘	22f.
C5W	6418								Q:					≘ ≘	22f.
P21W	7506					++	++		Q:			₫	Œ		22, 45
PY21W	7507					++	++								22, 45
P21/5W	7528									1 / 1 :		⊲≢	Œ		22, 45
P21/4W	7225								Ø.	1 / 1 :		₫╪			22
H6W	64132				K										21
H21W	64136					+ +	+ +								22
W21W	7505					++	+ +					₫	Œ		22
W21/5W	7515									1 / 1 :		⊲≨	Œ		22
R2	7951	∌D	ΞD												21, 45
HB3	9005	∌D	ΞD	挈											21
HB4	9006	∌D	ΞD	挈											21
H1	64150	∌D	ΞD	挈											21, 45
Н3	64151		ΞD	却											21
H4	64193	∌D	ΞD												21, 45
H7	64210	∌D	ΞD	挈											21, 45
H11	64211		ΞD												21
Н8	64212			挈											21
Н9	64213		ΞD												21
D2S	66040	∌D	ΞD												35
D1S	66142														35
D2R	66050														35
D1R	66152	∌D	ΞD												35

Types not shown here are mostly used for vehicle interior lighting.

OSRAM 12V self-service range

Our redesigned packaging for the self-service range provides even greater clarity for you and your customers. Each blister pack has pictograms that are understood throughout the world to indicate all the benefits and technical data.

Compact information

Voltage, wattage, and application all visible at a glance.

Brand name

The OSRAM brand stands for unrivalled expertise in automotive lamps and gives customers confidence.

Protection

The folded blister provides optimum protection for the lamp.

Anti-theft protection

The blister cannot be opened without being destroyed.



Identification

The large index number makes the type easy to identify via the reference list next to the shelving.

Transparency

So customers are absolutely sure they have purchased the correct lamp.

Core statement as a graphic

A picture says a thousand words. The core statement is clearly visible as a picture.

Environmental protection

The blister pack can be easily and completely separated into its two constituent materials: paper and PVC-free plastic.

Complete information

Voltage, wattage, blister reference and application all visible at a glance.

Seal of quality

Original spare part in OEM quality.

Product line

Clearly readable and highlighted in colour.



Identification

The index number is also shown clearly on the back.

Icons not words

The benefits and function are conveyed in self-explanatory pictures. Surveys have been carried out to ensure the icons are easily understood.

OSRAM 12V self-service range

Index no.	Blister reference	Blister no. (EAN)	ECE	V	W		St. pack blisters/lamps
							HAS AN ENGLISHMENT OF THE PROPERTY OF THE PROP
OSRAN	1 SILVERSTAR® –	50% more light					
1E	64193SVS-01B	4050300 647661	H4	12	60/55	P43t	20/20
2E	64210SVS-01B	4050300 647623	H7	12	55	PX26d	20/20
3E	64150SVS-01B	4050300 648354	H1	12	55	P14.5s	20/20
OSRAN	1 COOL BLUE® – k	oluish-white light c	colour				H4 FID STAND
1D	64193CB-01B	4050300 925189	H4	12	60/55	P43t	20/20
2D	64210CB-01B	4050300 925240	H7	12	55	PX26d	20/20
3D	64150CB-01B	4050300 925325	H1	12	55	P14.5s	20/20
20D	3893CB-02B	4050300 925660	T4W	12	4	BA9s	20/40
21D	2825HCB-02B	4050300 925707	W5W	12	5	W2.1x9.5d	20/40
21E	2825CB-02B	4050300 925721	W5W	12	5	W2.1x9.5d	20/40
26D	64132CB-02B	4050300 925820	H6W	12	6	BAX95	20/40
							H4 IIF
OSRAN	1 LIGHT@DAY®–	for constant use (d	lay and nigl	ht runni	ng light)	
1F	1 LIGHT@DAY® – 64193D-01B	for constant use (0	H4	12	ng light 60/55	P43t	20/20
1F 2F		·	H4 H7	12 12			20/20 20/20
1F 2F 3F	64193D-01B	4050300 773803	H4 H7 H1	12 12 12	60/55 55 55	P43t	20/20 20/20
1F 2F	64193D-01B 64210D-01B	4050300 773803 4050300 773742	H4 H7	12 12	60/55 55	P43t PX26d	20/20
1F 2F 3F	64193D-01B 64210D-01B 64150D-01B	4050300 773803 4050300 773742 4050300 773865	H4 H7 H1	12 12 12	60/55 55 55	P43t PX26d P14.5s	20/20 20/20
1F 2F 3F 11F	64193D-01B 64210D-01B 64150D-01B 7528D-02B	4050300 773803 4050300 773742 4050300 773865 4050300 773384	H4 H7 H1 P21/5W	12 12 12 12	60/55 55 55 21/5	P43t PX26d P14.5s BAY15d	20/20 20/20 20/40
1F 2F 3F 11F 14F	64193D-01B 64210D-01B 64150D-01B 7528D-02B 5007D-02B	4050300 773803 4050300 773742 4050300 773865 4050300 773384 4050300 773438	H4 H7 H1 P21/5W R5W	12 12 12 12 12	60/55 55 55 21/5 5	P43t PX26d P14.5s BAY15d BA15s	20/20 20/20 20/40 20/40
1F 2F 3F 11F 14F 16F	64193D-01B 64210D-01B 64150D-01B 7528D-02B 5007D-02B 5008D-02B	4050300 773803 4050300 773742 4050300 773865 4050300 773384 4050300 773438 4050300 773490	H4 H7 H1 P21/5W R5W R10W	12 12 12 12 12 12	60/55 55 55 21/5 5	P43t PX26d P14.5s BAY15d BA15s BA15s	20/20 20/20 20/40 20/40 20/40
1F 2F 3F 11F 14F 16F 18F	64193D-01B 64210D-01B 64150D-01B 7528D-02B 5007D-02B 5008D-02B 6418D-02B	4050300 773803 4050300 773742 4050300 773865 4050300 773384 4050300 773438 4050300 773490 4050300 773674	H4 H7 H1 P21/5W R5W R10W C5W	12 12 12 12 12 12 12	60/55 55 55 21/5 5 10	P43t PX26d P14.5s BAY15d BA15s BA15s SV8.5-8	20/20 20/20 20/40 20/40 20/40 20/40

OSRAM 12V self-service range

Index no.	Blister reference	Blister no. (EAN)	ECE	V	W		St. pack blisters/lamps
							HE STATE OF THE ST
STAN	DARD LINE 12V h	eadlight lamps					
1	64193-01B	4050300 925127	H4	12	60/55	P43t	20/20
2	64210-01B	4050300 925202	H7	12	55	PX26d	20/20
3	64150-01B	4050300 925264	H1	12	55	P14.5s	20/20
4	64151-01B	4050300 925349	Н3	12	55	PK22s	20/20
5 ¹⁾	64183-01B	4050300 925400	R2	12	45/40	P45t	20/20
62)	7951-01B	4050300 925424	R2	12	45/40	P45t	20/20
STAN	DARD LINE 12V a	uxiliary lamps					
STAN	DARD LINE 12V a 7506-02B	uxiliary lamps 4050300 925448	P21W	12	21	BA15s	20/40
			P21W PY21W	12 12	21 21	BA15s BAU15s	20/40 20/40
7	7506-02B	4050300 925448					
7	7506-02B 7507-02B	4050300 925448 4050300 925462	PY21W	12	21	BAU15s	20/40
7 8 8A	7506-02B 7507-02B 7507LDA-02B	4050300 925448 4050300 925462 4050300 925486	PY21W	12 12	21 21	BAU15s BAU15s	20/40 20/40
7 8 8A 10	7506-02B 7507-02B 7507LDA-02B 7527-02B	4050300 925448 4050300 925462 4050300 925486 4050300 925509	PY21W PY21W	12 12 12	21 21 18	BAU15s BAU15s BA15s	20/40 20/40 20/40
7 8 8A 10 11	7506-02B 7507-02B 7507LDA-02B 7527-02B 7528-02B	4050300 925448 4050300 925462 4050300 925486 4050300 925509 4050300 925523	PY21W PY21W P21/5W	12 12 12 12	21 21 18 21/5	BAU15s BAU15s BA15s BAY15d	20/40 20/40 20/40 20/40
7 8 8A 10 11	7506-02B 7507-02B 7507LDA-02B 7527-02B 7528-02B 7225-02B	4050300 925448 4050300 925462 4050300 925486 4050300 925509 4050300 925523 4050300 925547	PY21W PY21W P21/5W P21/4W	12 12 12 12 12	21 21 18 21/5 21/4	BAU15s BAU15s BA15s BAY15d BAZ15d	20/40 20/40 20/40 20/40 20/40
7 8 8A 10 11 12	7506-02B 7507-02B 7507LDA-02B 7527-02B 7528-02B 7225-02B 5007-02B	4050300 925448 4050300 925462 4050300 925486 4050300 925509 4050300 925523 4050300 925547 4050300 925585	PY21W PY21W P21/5W P21/4W R5W	12 12 12 12 12 12	21 21 18 21/5 21/4 5	BAU15s BAU15s BA15s BAY15d BAZ15d BA15s	20/40 20/40 20/40 20/40 20/40 20/40
7 8 8A 10 11 12 14 16	7506-02B 7507-02B 7507LDA-02B 7527-02B 7528-02B 7225-02B 5007-02B 5008-02B	4050300 925448 4050300 925462 4050300 925486 4050300 925509 4050300 925523 4050300 925547 4050300 925585 4050300 925608	PY21W PY21W P21/5W P21/4W R5W R10W	12 12 12 12 12 12 12	21 21 18 21/5 21/4 5 10	BAU15s BAU15s BA15s BAY15d BAZ15d BA15s BA15s	20/40 20/40 20/40 20/40 20/40 20/40 20/40
7 8 8A 10 11 12 14 16 18	7506-02B 7507-02B 7507LDA-02B 7527-02B 7528-02B 7225-02B 5007-02B 5008-02B 6418-02B	4050300925448 4050300925462 4050300925486 4050300925509 4050300925523 4050300925547 4050300925608 4050300925608	PY21W PY21W P21/5W P21/4W R5W R10W C5W	12 12 12 12 12 12 12 12 12	21 21 18 21/5 21/4 5 10 5	BAU15s BAU15s BA15s BAY15d BAZ15d BA15s BA15s SV8.5-8	20/40 20/40 20/40 20/40 20/40 20/40 20/40 20/40
7 8 8A 10 11 12 14 16 18 19	7506-02B 7507-02B 7507LDA-02B 7527-02B 7528-02B 7225-02B 5007-02B 5008-02B 6418-02B 6411-02B	4050300925448 4050300925462 4050300925486 4050300925509 4050300925523 4050300925547 4050300925608 4050300925622 4050300925646	PY21W PY21W P21/5W P21/4W R5W R10W C5W C10W	12 12 12 12 12 12 12 12 12	21 21 18 21/5 21/4 5 10 5	BAU15s BAU15s BA15s BAY15d BAZ15d BA15s BA15s SV8.5-8 SV8.5-9	20/40 20/40 20/40 20/40 20/40 20/40 20/40 20/40 20/40
7 8 8A 10 11 12 14 16 18 19 20	7506-02B 7507-02B 7507LDA-02B 7527-02B 7528-02B 7225-02B 5007-02B 5008-02B 6418-02B 6411-02B 3893-02B	4050300925448 4050300925462 4050300925486 4050300925509 4050300925523 4050300925547 4050300925685 4050300925608 4050300925646 4050300647609	PY21W PY21W P21/5W P21/4W R5W R10W C5W C10W T4W	12 12 12 12 12 12 12 12 12 12	21 21 18 21/5 21/4 5 10 5 10 4	BAU15s BAU15s BA15s BAY15d BAZ15d BA15s BA15s SV8.5-8 SV8.5-9 BA9s	20/40 20/40 20/40 20/40 20/40 20/40 20/40 20/40 20/40 20/40
7 8 8A 10 11 12 14 16 18 19 20 21	7506-02B 7507-02B 7507LDA-02B 7527-02B 7528-02B 7225-02B 5007-02B 5008-02B 6418-02B 6411-02B 3893-02B 2825-02B	4050300925448 4050300925462 4050300925486 4050300925509 4050300925523 4050300925547 4050300925608 4050300925608 4050300925646 4050300647609 4050300925684	PY21W PY21W P21/5W P21/4W R5W R10W C5W C10W T4W W5W	12 12 12 12 12 12 12 12 12 12 12	21 21 18 21/5 21/4 5 10 5 10 4 5	BAU15s BAU15s BA15s BAY15d BAZ15d BA15s BA15s SV8.5-8 SV8.5-9 BA9s W2.1x9.5d	20/40 20/40 20/40 20/40 20/40 20/40 20/40 20/40 20/40 20/40 20/40
7 8 8A 10 11 12 14 16 18 19 20 21 22	7506-02B 7507-02B 7507LDA-02B 7527-02B 7528-02B 7225-02B 5007-02B 5008-02B 6418-02B 6411-02B 3893-02B 2825-02B 2821-02B	4050300925448 4050300925462 4050300925486 4050300925509 4050300925523 4050300925547 4050300925608 4050300925608 4050300925646 4050300647609 4050300925684 4050300925684	PY21W PY21W P21/5W P21/4W R5W R10W C5W C10W T4W W5W	12 12 12 12 12 12 12 12 12 12 12 12	21 21 18 21/5 21/4 5 10 5 10 4 5 3	BAU15s BAU15s BA15s BAY15d BAZ15d BA15s BA15s SV8.5-8 SV8.5-9 BA9s W2.1x9.5d	20/40 20/40 20/40 20/40 20/40 20/40 20/40 20/40 20/40 20/40 20/40 20/40

¹⁾ Alternative to 7951 in halogen technology

²⁾ Conventional technology

OSRAM 24V self-service range

Index no.	Blister reference	Blister no. (EAN)	ECE	V	W		St. pack blisters/lamps
24V	64155-01B	4050300 925844	H1	24	70	P14.5s	20/20
24V	64156-01B	4050300 565811	H3	24	70	PK22s	20/20
24V	64196-01B	4050300 925868	H4	24	75/70	P43t	20/20
24V	64215-01B	4050300 925882	H7	24	70	PX26d	20/20
24V	7952-01B ¹⁾	4050300 925905	R2	24	55/50	P45t	20/20
STAND	ARD LINE 24V a	auxiliary lamps					CORAN COCAN COCAN
24V	7511-02B	4050300 925929	P21W	24	21	BA15s	20/40
24V	7537-02B	4050300 925943	P21/5W	24	4	BAY15d	20/40
24V	5627-02B	4050300 925967	R5W	24	5	BA15s	20/40
24V	6423-02B	4050300 925981	C5W	24	5	SV8.5-8	20/40
24V	3930-02B	4050300 926001		24	4	BA9s	20/40
24V	2841-02B	4050300 926025	W3W	24	3	W2.1x9.5d	20/40
24V	5637-02B	4050300 926049	R10W	24	10	BA15s	20/40

¹⁾ Conventional technology

Spare lamp kits for cars

The failure of just one tiny lamp can have a serious effect on road safety. A driver who cannot see properly or cannot be seen by other drivers is a danger not only to himself but to other road users. So OSRAM offers spare lamp kits to cover just about all makes and models.

Mandatory in many countries

Many people take spare lamps with them when they go on long trips, particularly on holiday, but it makes sense to have them with you all the time. In many European countries, such as France, Spain and the Netherlands, and in all eastern European countries it is a legal requirement. With a spare lamp kit from OSRAM, drivers will always have the right lamps available – and can easily replace them themselves if need be.

Safety made easy

A label tells customers exactly what the spare lamp kit contains and provides technical data on each of the lamps. Each lamp is labelled with the ECE category and is therefore easy to identify. And there is a diagram on the back of the box showing where each of the lamps is to be used.

With so many benefits, it's easy to see why so many drivers opt for the OSRAM spare lamp kits. So it makes sense for you to take advantage of the great attraction of the spare lamp kits to boost your own business.



Spare lamp kits for cars

Each spare lamp kit for	cars contains the same set of the five most important	lamps plus three blade fuses:
7506 P21W	Brake and tail light	
7507 PY21W	Indicator (amber)	
7528 P21/5W	Brake/tail light	
5007 R5W	Tail light and number plate lamp	
2825 W5W	Parking light	
2023 W3W	Blade fuses 15A, 20A, 30A	
	Didde 10365 13A, 20A, 30A	
		Article no. (EAN)
ALB5 H4 contains one H	14 headlight lamp as well as	
	e blade fuses listed above	4050300 940755
·		
64193 H4 Main haloge	n headlight lamp	
ALB5 H7 contains one H	17 headlight lamp as well as	
the five lamps and three	e blade fuses listed above	4050300 940779
64210 H7 Main haloge	n headlight lamp	
ALR5 H1 contains one H	I1 headlight lamp as well as	
	e blade fuses listed above	4050300 940762
the hive fampe and three	, blade 14000 listed 450vo	10000000-10102
64150 H1 Main haloge	n headlight lamp	
o i i o i i o i i o i o i o i o i o i o		
ALDE UZ/U1 contains o	ne H7 and one H1 headlight lamp as well as	
	e blade fuses listed above	4050200 040749
uie iive iaiiips aliu tillet	ה אומער ועסכס ווסנכע מאטעכ	4050300 940748
64210 H7 Main haloge	n headlight lamn	
	n headlight lamp	
0-100 III - Maiii Iidioge	ii noddigiit idiip	
ALRS R2 contains one	R2 headlight lamp as well as	
	e blade fuses listed above	4050300 940786
uie iive iaiiips aliu tillet	ה אומער ועסכס ווסנכע מאטעכ	4000000 940700
7951 R2 Main headli	ght lamp, conventional technology	
7551 IIZ WAIII IICAUII	gir iamp, conventional technology	

Spare lamp kits for trucks and buses

Professional drivers in particular rely on spare lamp kits from OSRAM. Drivers who always have the right spare lamps with them will save themselves the trouble of taking their vehicles into a garage for replacements or searching for the nearest retailer. The savings in time and money are considerable, especially on journeys abroad.





			Article no. (EAN)
ALB H424	with BILUX® H4	halogen headlight lamp	4050300 797526
(contains 6	S lamps)		
64196	H4	Main halogen headlight lamp	
7511	P21W	Brake/indicator light	
5637	R10W	Tail/number plate light	
5627	R5W	Tail/number plate light	
6423	C5W	Interior lighting	
3930	T4W	Parking light	
		3 blade fuses: 15A, 20A, 30A	



H (HEAVY-DUTY)	with BILUX® H4 halogen headlight lamp	4050300 797540
lamps)		
H4	Main halogen headlight lamp	
P21W	Brake/indicator light (Will be replaced by 7511)	LTS in 2005)
R10W	Tail/number plate light (Will be replaced by 56	37LTS in 2005)
R5W	Tail/number plate light (Will be replaced by 56	27LTS in 2005)
T4W	Parking light (Will be replaced by 3930LTS in 200	5)
	3 blade fuses: 15A, 20A, 30A	
	lamps) H4 P21W R10W R5W	H4 Main halogen headlight lamp P21W Brake/indicator light (Will be replaced by 7511) R10W Tail/number plate light (Will be replaced by 56) R5W Tail/number plate light (Will be replaced by 56) T4W Parking light (Will be replaced by 3930LTS in 200



ALB H724	with H7 haloge	n headlight lamp	4050300 797564
(contains 6	lamps)		
64215	H7	Main halogen headlight lamp	
7511	P21W	Brake/indicator light	
5637	R10W	Tail/number plate light	
5627	R5W	Tail/number plate light	
6423	C5W	Interior lighting	
3930	T4W	Parking light	
		3 blade fuses: 15A, 20A, 30A	



ALB H124	with H1 halogen l	headlight lamp	4050300 797588
(contains 6	3 lamps)		
64155	H1	Main halogen headlight lamp	
7511	P21W	Brake/indicator light	
5637	R10W	Tail/number plate light	
5627	R5W	Tail/number plate light	
6423	C5W	Interior lighting	
3930	T4W	Parking light	
		3 blade fuses: 15A, 20A, 30A	

Spare lamp kits for trucks and buses

			Article no. (EAN)
ALB H424B	with BILUX® H4 ha	alogen headlight lamp	4050300 797601
(contains 13	lamps)		
2 x 64196	H4	Main halogen headlight lamp	
2 x 7511	P21W	Brake/indicator light	
1 x 7537	P21W/5W	Brake/tail light	
1 x 5637	R10W	Tail/number plate light	
2 x 5627	R5W	Tail/number plate light	
1 x 6423	C5W	Interior lighting	
1 x 6429	_	Interior lighting	
1 x 2845	W5W	Parking light/interior lighting	
2 x 3930	T4W	Parking light	
2 x 0000		3 blade fuses: 15A, 20A, 30A	
ALB H724B (contains 13	with H7 halogen h	neadlight lamp	4050300 797625
2 x 64215	напіры) Н7	Main halogen headlight lamp	
2 x 7511	P21W	Brake/indicator light	
		•	
1 x 7537	P21W/5W	Brake/tail light	
1 x 5637	R10W	Tail/number plate light	
2 x 5627	R5W	Tail/number plate light	
1 x 6423	C5W	Interior lighting	
1 x 6429		Interior lighting	
1 x 2845	W5W	Parking light/interior lighting	
2 x 3930	T4W	Parking light	
		3 blade fuses: 15A, 20A, 30A	
AI R 47240	with H7 halogen h	nmel thailbean	4050300 797649
(contains 10		reaungnt iamp	4030300191049
1 x 64215	H7	Main halogen headlight lamp	
1 x 64155	H1	Main halogen headlight lamp	
2 x 9511	P21W	Brake/indicator light	
1 x 5637	R10W	Tail/number plate light	
2 x 5627	R5W	Tail/number plate light	
2 x 2845	W5W	Parking light/interior lighting	
1 x 2841	W3W	Parking light/interior lighting	
ALB H124D	with H1 halogen h	neadlight lamp	4050300 797663
/			
(contains 11	H1	Main halogen headlight lamp	
1 x 64155		Main halogen headlight lamp	
1 x 64155 2 x 64156	H3		
1 x 64155 2 x 64156 2 x 9511	P21W	Brake/indicator light	
1 x 64155 2 x 64156 2 x 9511 1 x 5637	P21W R10W	Brake/indicator light Tail/number plate light	
1 x 64155 2 x 64156 2 x 9511	P21W R10W R5W	Brake/indicator light Tail/number plate light Tail/number plate light	
1 x 64155 2 x 64156 2 x 9511 1 x 5637	P21W R10W	Brake/indicator light Tail/number plate light	

Good displays are good for business

Our floor and counter displays are real eye-catchers. Here, your customers will find all the innovative OSRAM automotive lamps neatly arranged. They can check all the features, make comparisons and choose the right lamps at their leisure. Presentation, information and access – our POS material will make it easier for your customers to make impulse purchases.

Counter displays

These counter displays are difficult to miss! Placed directly on the counter or next to the cash register, they take up very little space and really promote your best-sellers.









Product reference	Article no. (EAN) Display	Code	Contents	Dimensions (W x H x D)
Counter displ	lays – Headlight lamps			
1) 1) 1) 1) 1) 500198 1) 500190 1) 500194 1)	Available on request On request On request On request	H1 COOL BLUE® H4 COOL BLUE® H7 COOL BLUE® H1 SILVERSTAR® H4 SILVERSTAR® H7 SILVERSTAR® H1 LIGHT@DAY® H4 LIGHT@DAY® H7 LIGHT@DAY®	5 x 2 pieces 10 x 2 pieces 5 x 2 pieces 5 x 2 pieces 10 x 2 pieces 5 x 2 pieces 10 x 2 pieces 5 x 2 pieces	100/200 x 290 x 260 mm 200 x 300 x 260 mm 100/200 x 290 x 260 mm 100/200 x 290 x 260 mm 200 x 300 x 260 mm 100/200 x 290 x 260 mm 100/200 x 290 x 260 mm 200 x 300 x 260 mm 100/200 x 290 x 260 mm 100/200 x 290 x 260 mm
	lay – Spare lamp kit 4008321022059	Presenter Eurobox	1 Acrylic display (not equipped)	210 x 340 x 82mm

¹⁾ International display in English

Good displays are good for business

"Innovation" and "Spare lamp kit" floor displays

Our "Innovation" floor display promotes our latest products. It presents headlight lamps from the SILVERSTAR®, COOL BLUE®, LIGHT@DAY® and STANDARD LINE ranges in individual blister packs, neatly arranged and with customer-friendly product information. The "Spare lamp kit" floor display contains complete spare lamp kits.



"Innovation" floor display

"Spare lamp kit" floor display

Product reference	Article no. (EAN)	Code	Content
"Innovation" floor	display		
509966 ¹⁾	4050300 811178	"Innovation" floor display	90 lamps
Content			
64150D-01B	4050300 773865	H1 LIGHT@DAY®	4
64193D-01B	4050300 773803	H4 LIGHT@DAY®	16
64210D-01B	4050300 773742	H7 LIGHT@DAY®	12
64150SVS-01B	4050300 648354	H1 SILVERSTAR®	4
64193SVS-01B	4050300 647661	H4 SILVERSTAR®	12
64210SVS-01B	4050300 647623	H7 SILVERSTAR®	8
64150CB-01B	4050300 925325	H1 COOL BLUE®	4
64193CB-01B	4050300 925189	H4 COOL BLUE®	8
64210CB-01B	4050300 925240	H7 COOL BLUE®	2
64150-01B	4050300 925264	H1 STANDARD LINE	4
64193-01B	4050300 925127	H4 STANDARD LINE	10
64210-01B	4050300 925202	H7 STANDARD LINE	6
"Spare lamp kit" f	loor display		
509948 ¹⁾	4050300 992327	"Spare lamp kit" floor display	60 boxes
Content			
ALB5 H1	4050300 940762	H1 EUROBOX	10
ALB5 H4	4050300 940755	H4 EUROBOX	30
ALB5 H7	4050300 940779	H7 EUROBOX	10
ALB5 H7/H1	4050300 940748	H7/H1 EUROBOX	10

¹⁾ International display in English

Full of ideas – the automotive lamp cabinet

Our automotive lamp cabinets (ALC) have what it takes. With their easy-dispensing chute system, integrated lamp tester, movable partitions and two drawers for small parts, they are ideal for retail outlets and repair shops. Made from tough die-cast metal. With attractive, interchangeable motifs for 12V and 24V.



ALC European automotive lamp cabinet, customstockable, space for around 355 lamps Dimensions (W x H x D): 545 x 435 x 140 mm

Suggested 12V stock

Product reference	Article no. (EAN) Consumer unit	Code	Number of lamps
Chute system			
64150	4050300 001487	H1	13
64150SVS	4050300 647852	H1 SILVERSTAR®	13
64150D	4050300 773834	H1 LIGHT@DAY®	13
64151	4050300 001494	Н3	13
64193	4050300 001470	H4 BILUX®	10
64193SVS	4050300 629711	H4 BILUX® SILVERSTAR®	6
64193D	4050300 773773	H4 BILUX® LIGHT@DAY®	6
64210	4050300 332185	H7	8
64210SVS	4050300 629643	H7 SILVERSTAR®	8
64210D	4050300 773711	H7 LIGHT@DAY®	8
64183¹)	4050300 350554	BILUX® AS® HALOROAD® R2	6
7506 7507	4050300 833446 4050300 835174	P21W PY21W	20 10
7500	405000000440	DOUM	00
7507	4050300 835174	PY21W	10
7507LDA	4050300 833606	PY21W DIADEM®	5
7528	4050300 834849	P21/5W	10
7528D	4050300 834443	P21/5W LIGHT@DAY®	10
7225	4050300 833583	P21/4W	10
5007	4050300 841472	R5W	20
	4050300 841298	R5W LIGHT@DAY®	10
5007D			
	4050300 841274	R10W	20
5008 5008D	4050300 841274 4050300 841243	R10W LIGHT@DAY®	10
5008 5008D 6418		R10W LIGHT@DAY® C5W	10 10
5008 5008D 6418 6418D	4050300 841243 4050300 833903 4050300 833842	R10W LIGHT@DAY® C5W C5W LIGHT@DAY®	10 10 10
5008 5008D 6418 6418D 6411	4050300 841243 4050300 833903 4050300 833842 4050300 835754	R10W LIGHT@DAY® C5W C5W LIGHT@DAY® Festoon lamp 10W	10 10 10 10
5008 5008D 6418 6418D 6411 2825	4050300 841243 4050300 833903 4050300 833842 4050300 835754 4050300 842912	R10W LIGHT@DAY® C5W C5W LIGHT@DAY® Festoon lamp 10W W5W	10 10 10 10 10
5008 5008D 6418 6418D 6411 2825 2825D	4050300 841243 4050300 833903 4050300 833842 4050300 835754 4050300 842912 4050300 845661	R10W LIGHT@DAY® C5W C5W LIGHT@DAY® Festoon lamp 10W W5W W5W LIGHT@DAY®	10 10 10 10 10 10
5008 5008D 6418 6418D 6411 2825 2825D 2827	4050300 841243 4050300 833903 4050300 833842 4050300 835754 4050300 842912 4050300 845661 4050300 842790	R10W LIGHT@DAY® C5W C5W LIGHT@DAY® Festoon lamp 10W W5W W5W W5W LIGHT@DAY®	10 10 10 10 10 10 10
5008 5008D 6418 6418D 6411 2825 2825D 2827 3893	4050300841243 4050300833903 4050300833842 4050300835754 4050300842912 4050300845661 4050300842790 4050300847689	R10W LIGHT@DAY® C5W C5W LIGHT@DAY® Festoon lamp 10W W5W W5W W5W LIGHT@DAY® WY5W T4W	10 10 10 10 10 10 10 10
5008	4050300 841243 4050300 833903 4050300 833842 4050300 835754 4050300 842912 4050300 845661 4050300 842790	R10W LIGHT@DAY® C5W C5W LIGHT@DAY® Festoon lamp 10W W5W W5W W5W LIGHT@DAY®	10 10 10 10 10 10 10

¹⁾ Alternative to 7951 in halogen technology

Full of ideas – the automotive lamp cabinet



ALC with poster motif for 24 V range

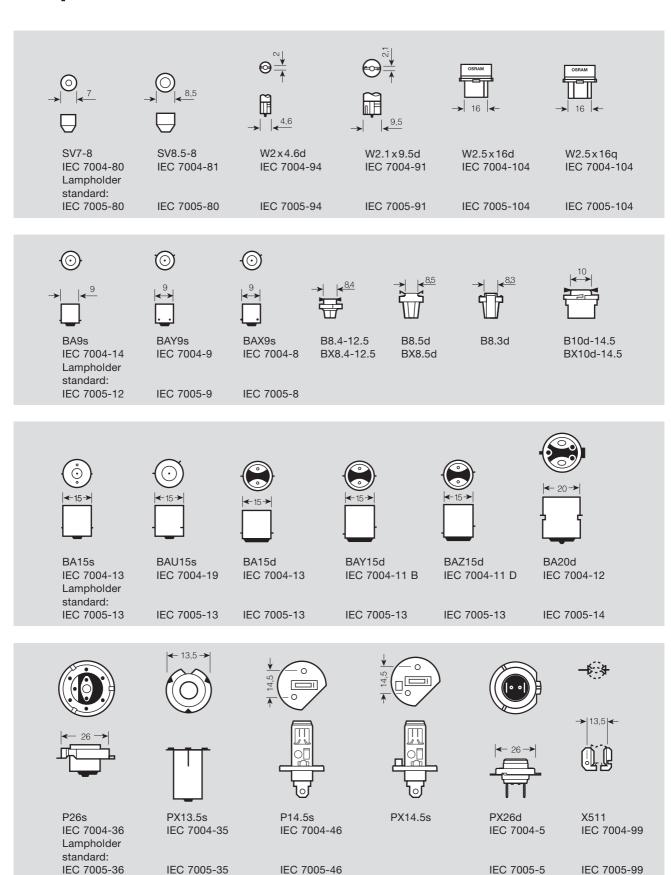
Suggested 24V stock

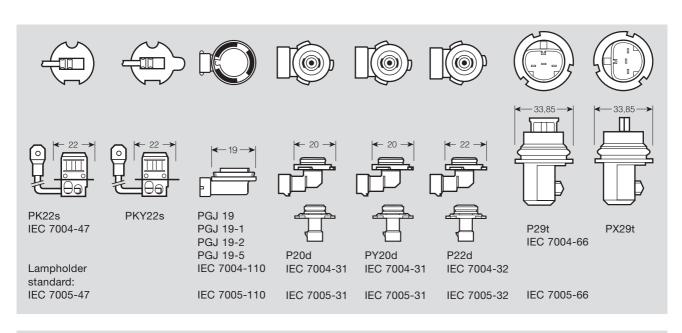
Product reference	Article no. (EAN) Consumer unit	Code	Number of lamps
Chute system			
64155	4050300 016498	H1	13
64155LTS	4008321 004093	H1 OSRAM TRUCKSTAR™	13
64156	4050300 016535	Н3	13
64156LTS	4008321 004123	H3 OSRAM TRUCKSTAR™	13
64196	4050300 016542	H4 BILUX®	16
64196LTS ¹⁾	Projected	H4 BILUX® OSRAM TRUCKSTAR™	12
64215	4050300 386522	H7	8
64215LTS	4008321 004246	H7 OSRAM TRUCKSTAR™	16
Inside doors			
Inside doors			
Inside doors	4050300 833422	P21W	20
	4050300 833422 Projected	P21W P21W OSRAM TRUCKSTAR™	20 15
7511			
7511 7511LTS ¹⁾	Projected	P21W OSRAM TRUCKSTAR™	15
7511 7511LTS ¹⁾ 7510 ¹⁾²⁾	Projected Projected	P21W OSRAM TRUCKSTAR™ PY21W	15 10
7511 7511LTS ¹⁾ 7510 ¹⁾²⁾ 7510LTS ¹⁾	Projected Projected Projected	P21W OSRAM TRUCKSTAR™ PY21W PY21W OSRAM TRUCKSTAR™	15 10 10
7511 7511LTS ¹⁾ 7510 ¹⁾²⁾ 7510LTS ¹⁾ 7537 5627	Projected Projected Projected 4050300 833347	P21W OSRAM TRUCKSTAR™ PY21W PY21W OSRAM TRUCKSTAR™ P21/5W	15 10 10 10
7511 7511LTS ¹⁾ 7510 ¹⁾²⁾ 7510LTS ¹⁾ 7537	Projected Projected Projected 4050300 833347 4050300 844572	P21W OSRAM TRUCKSTAR™ PY21W PY21W OSRAM TRUCKSTAR™ P21/5W R5W	15 10 10 10 20
7511 7511LTS ¹⁾ 7510 ¹⁾²⁾ 7510LTS ¹⁾ 7537 5627 5627LTS ¹⁾	Projected Projected Projected 4050300 833347 4050300 844572 Projected	P21W OSRAM TRUCKSTAR™ PY21W PY21W OSRAM TRUCKSTAR™ P21/5W R5W R5W OSRAM TRUCKSTAR™	15 10 10 10 20 10
7511 7511LTS ¹⁾ 7510 ¹⁾²⁾ 7510LTS ¹⁾ 7537 5627 5627LTS ¹⁾	Projected Projected Projected 4050300 833347 4050300 844572 Projected 4050300 844497	P21W OSRAM TRUCKSTAR™ PY21W PY21W OSRAM TRUCKSTAR™ P21/5W R5W R5W OSRAM TRUCKSTAR™ R10W	15 10 10 10 20 10 20
7511 7511LTS ¹⁾ 7510 ¹⁾²⁾ 7510LTS ¹⁾ 7537 5627 5627LTS ¹⁾ 5637 5637LTS ¹⁾	Projected Projected Projected 4050300 833347 4050300 844572 Projected 4050300 844497 Projected	P21W OSRAM TRUCKSTAR™ PY21W PY21W OSRAM TRUCKSTAR™ P21/5W R5W R5W R5W OSRAM TRUCKSTAR™ R10W R10W OSRAM TRUCKSTAR™	15 10 10 10 20 10 20 10
7511 7511LTS ¹⁾ 7510 ¹⁾²⁾ 7510LTS ¹⁾ 7537 5627 5627LTS ¹⁾ 5637 5637LTS ¹⁾ 6423	Projected Projected Projected 4050300 833347 4050300 844572 Projected 4050300 844497 Projected 4050300 833880	P21W OSRAM TRUCKSTAR™ PY21W PY21W OSRAM TRUCKSTAR™ P21/5W R5W R5W OSRAM TRUCKSTAR™ R10W R10W OSRAM TRUCKSTAR™	15 10 10 10 20 10 20 10 20
7511 7511LTS ¹⁾ 7510LTS ¹⁾ 7510LTS ¹⁾ 7537 5627 5627LTS ¹⁾ 5637	Projected Projected Projected 4050300833347 4050300844572 Projected 4050300844497 Projected 4050300833880 4050300835730	P21W OSRAM TRUCKSTAR™ PY21W PY21W OSRAM TRUCKSTAR™ P21/5W R5W R5W R5W OSRAM TRUCKSTAR™ R10W R10W OSRAM TRUCKSTAR™ C5W Festoon lamp 10W	15 10 10 10 20 10 20 10 20 10
7511 7511LTS ¹⁾ 7510LTS ¹⁾ 7510LTS ¹⁾ 7537 5627 5627LTS ¹⁾ 5637 5637LTS ¹⁾ 6423 6429 2841	Projected Projected Projected 4050300833347 4050300844572 Projected 4050300844497 Projected 4050300833880 4050300835730 4050300846682	P21W OSRAM TRUCKSTAR™ PY21W PY21W OSRAM TRUCKSTAR™ P21/5W R5W R5W R5W OSRAM TRUCKSTAR™ R10W R10W OSRAM TRUCKSTAR™ C5W Festoon lamp 10W W3W	15 10 10 10 20 10 20 10 20 10
7511 7511LTS ¹⁾ 7510LTS ¹⁾ 7510LTS ¹⁾ 7537 5627 5627LTS ¹⁾ 5637 6637LTS ¹⁾ 6423 6429 2841	Projected Projected Projected 4050300833347 4050300844572 Projected 4050300844497 Projected 4050300833880 4050300835730 4050300846682 4050300846743	P21W OSRAM TRUCKSTAR™ PY21W PY21W OSRAM TRUCKSTAR™ P21/5W R5W R5W OSRAM TRUCKSTAR™ R10W R10W OSRAM TRUCKSTAR™ C5W Festoon lamp 10W W3W W5W	15 10 10 10 20 10 20 10 20 10 20 10

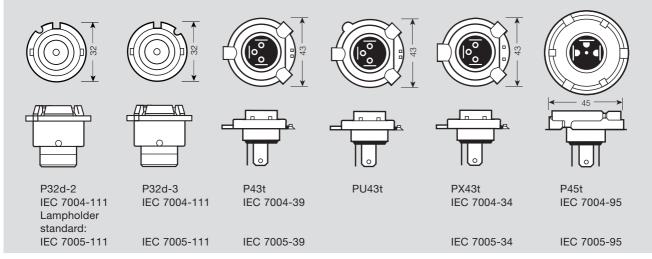
¹⁾ Planned to be available from 2005

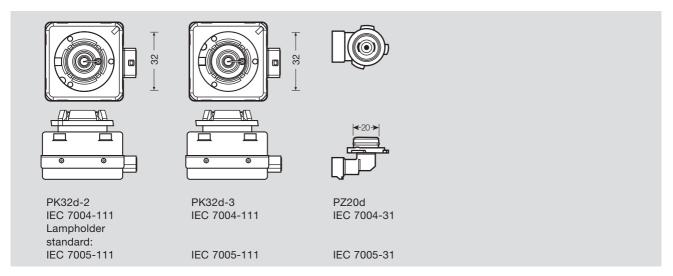
²⁾ Amber lamp for clear indicators

Bases IEC/EN 60061-1 Lampholders IEC/EN 60061-2









Glossary of the most important lighting terms

As with any technical or scientific discipline, lighting technology has its own special terms and concepts for defining the characteristics of lamps and luminaires and for standardising the units of measurement. The most important of these are described here.

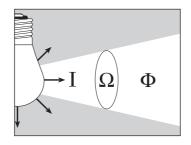
Light and radiation

Light is taken to mean the electromagnetic radiation that the human eye perceives as brightness, in other words that part of the spectrum that can be seen. This is the radiation between 360 nm and 830 nm, a tiny fraction of the known spectrum of electromagnetic radiation.

Luminous flux Φ

Unit of measurement: lumen [lm].

All the radiated power emitted by a light source and perceived by the eye is called luminous flux Φ .

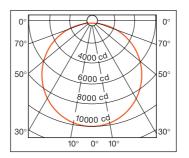


Luminous flux Φ is the luminous intensity I emitted in the entire solid angle Ω .

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. The visible radiant intensity in a particular direction is called luminous intensity I.

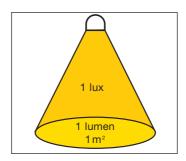


Polar diagram

Illuminance E

Unit of measurement: lux [lx].

Illuminance E is the ratio between the luminous flux and the area to be illuminated. An illuminance of 1 lx occurs when a luminous flux of 1 lm is evenly distributed over an area of 1 m².

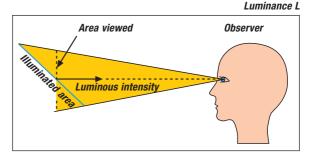


Illuminance E

Luminance L

Unit of measurement: candelas per square metre [cd/m²].

The luminance L of a light source or an illuminated area is a measure of how great an impression of brightness is created in the brain.



The most important photometric formulae:

Luminous intensity I [cd]

Illuminance E

 $\frac{ \text{Luminous flux in solid angle} }{ \text{Solid angle } \Omega \text{ [sr]} }$

Luminous flux falling on area [lm]
Illuminated area [m²]

Luminance [cd/m²]

Luminous efficacy $\,\eta\,$ [lm/W]

Luminous intensity [cd]
Viewed luminous area [m²]

Generated luminous flux [lm]
Electrical power consumed [W]

Luminous efficacy

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

Colour temperature

Unit of measurement: Kelvin [K].

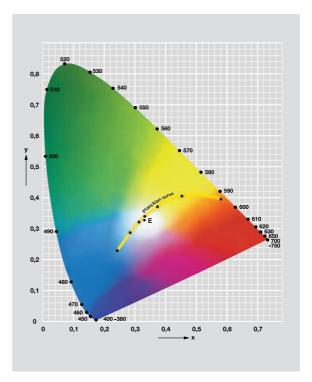
The colour temperature of a light source is defined in comparison with a "black body radiator" and plotted on what is known as the "Planckian curve". The higher the temperature of this "black body radiator", the greater the blue component in the spectrum and the smaller the red component.

Weibull data for lamp life:

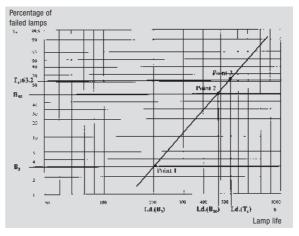
Weibull distribution has become established as the standard method for analysing the life of technical products. Endurance tests on products without technical faults produce failure curves which represent the proportion of products that fail in the course of use. Because of their special properties, these curves can be normalised for the purposes of comparison. This involves approximating the distributions to a straight line. To show this, a special coordinate system is needed (named after Dr. E. H. Wallodi Weibull, 1887 to 1979).

Service life distribution can now be accurately defined by specifying two points on the straight line, without having to refer to a failure curve. In accordance with IEC 810, the following failure rates have been defined as standard failure rates: The B_3 life value represents the premature failure rate of lamps. It means that 3% of all the tested lamps failed after this number of hours burned.

The T_c life value represents the failure rate of 63.2% of the lamps. B_3 and T_c are of particular interest in industry. The retail trade makes more use of the B_{50} value. This indicates the average life of the lamps (50%).



Chromacity diagram according to DIN 5033



Weibull distribution

Type summary by rated voltage

Rated				Base	Product	See	Rated		DIN		Base	Product	See
volt-	Stan-	Stan-	wattage		reference	page	volt-			wattage		reference	page
age V	dard	dard	W				age V	dard	dard	W			
1)	•		35	P32d-2	66040 2) 9) 10)	35, 39	12			6	W2.1x9.5d	2886X ⁶⁾	24
1)	•		35	P32d-3	66050 2)3)10)		12			10	BA9s	64113 ⁴⁾	24
1)	•		35	PK32d-2	66142 2) 9) 10)		12	•		10	BA15s	5008	22f., 39
1)	•		35	PK32d-3	66152 2) 3) 10)	35, 39	12	•		10	BA15s	5008D	19
12			1.1	BX8.4d	2473MFX6		12	•		10	BAU15s	5009	22
12			1.2	B8.3d	2721MF8		12		•	10	SV8.5-8	6411	23
12			1.2	B8.5d	2721MF		12			10	SV8.5-8	6438	23
12			1.2	BX8.4d	2351MFX6		12			10	SV8.5-8	6461	23
12			1.2	BX8.5d	2721MFX		12	•		16	W2.1x9.5d		22, 39
12			1.2	W2x4.6d	2721		12			18	SV8.5-8	6475	23
12			1.3	BX8.4d	2431MFX6 ¹²⁾		12			20	BA9s	64115	24
12			1.5	B8.5d	2752MF	25	12	•		21	BA15s	7506	22, 39, 45
12			1.5	BX8.4d	2452MFX6		12	•		21	BAU15s	7507 ⁵⁾	22, 39, 45
12							12						
			1.5	BX8.5d	2752MFX			•		21	BAU15s	7507LDA	15, 17, 19
12			1.5	W2x4.6d	2731		12	•		21	BAY9s	64136	22, 39
12			2	B8.3d	2722MF8		12	•		21	SV8.5-8	6476	23
12			2	B8.5d	2722MF		12	•		21	W3x16d	7505	22, 39
12		•	2	BA9s	3796		12	•		21/4	BAZ15d	7225	22, 39
12			2	BX8.4d	2352MFX6		12	•		21/5	BAY15d	7528	22, 39, 45
12			2	BX8.5d	2722MFX		12	•		21/5	BAY15d	7528D	19
12			2	W2x4,6d	2722		12	•		21/5	W3x16q	7515	22, 39
12		•	2	W2.1x9.5d	2820	24	12	•		25/25	BA20d	7326	21
12	•		2.3	W2x4.6d	2723	24	12	•		27	W2.5x16d	3156	22
12			3	B10d	64122MF	25	12	•		27/7	W2.5x16q	3157	22
12			3	B10d	64122MFX	25	12	•		35	PGJ19-1	64212 ⁸⁾	21, 39
12			3	BA9s	3894	23 f.	12	•		35/35	BA20d	7327	21
12			3	SV7-8	6428	23	12	•		35/35	PX43t	64185	21
12	•		3	W2.1x9.5d	2821	24, 39	12	•		42	PY20d	91458)	21
12	•		4	BA9s	3893	21, 23f., 39	12			41 13)		XENAELECTRON®	36
12	•		4	BA9s	3893CB	17						XT5-1-D1/12V	
12	•		4	BA9s	3893D	19	12			41 13)		XENAELECTRON®	36
12			5	B10d	64124MF	25						XT5-3-D1/12V	
12			5	BA9s	3860	23 f.						TAB	
12			5	BA9s	641114)		12			45/40	BA20d	7351	33
12	•		5	BA15s	5007		12	•		45/40		7951	21, 39, 45
12	•		5	BA15s	5007D		12	•		45/40		641837)	21
12			5	BX10d	64124MFX		12	•		51	P22d	9006 ⁸⁾	21, 39
12			5	SV8.5-8	6413		12	•		51	P22d	9006CB ⁸⁾¹¹⁾	17
12	•		5	SV8.5-8	6418		12	•		51	P22d	9006XS ⁸⁾	21
12	•		5	SV8.5-8	6418D		12	•		53	PZ20d	9055 ⁸⁾	21
12	•		5	W2.1x9.5d			12	•		55	P14.5s	64150 ⁸⁾	21, 39, 45
12	•		5	W2.1x9.5d			12	•		55	P14.5s	64150CB ⁸⁾	17
12	•		5	W2.1x9.5d			12	•		55	P14.5s	64150D [®]	19
12	•		5	W2.1x9.5d W2.1x9.5d			12	•		55	P14.5s	64150SVS®	15
12	•		5	W2.1x9.5d W2.1x9.5d			12	•		55	PGJ19-2	64211 ⁸⁾	21, 39
12	•		6	BA9s	3886X ⁶⁾		12			55	PGJ19-2	64211D	19
			6	BAY9s	64132		12						
12								•		55	PK22s	64151 ⁸⁾	21, 39
12	•		6	BAX9s	64132CB		12	•		55	PK22s	64151CB ⁸⁾	17
12	•		6	BAX9s	64132D		12	•		55	PX26d	64210 ⁸⁾	21, 39, 45
12			6	SV8.5-8	6486X ⁶⁾	24	12	•		55	PX26d	64210CB ⁸⁾¹¹⁾	17

Type summary by rated voltage

Rated	ECE	DIN	Rated	Base	Product	See	Rated	ECE	DIN	Rated	Base	Product	See
volt-	Stan-	Stan-	wattage	:	reference	page	volt-	Stan-	Stan-	wattage	1	reference	page
age V	dard	dard	W				age V	dard	dard	W			
_12	•		55	PX26d	64210D ⁸⁾¹¹⁾	19	24	•		5	BA15s	5627	29ff., 46 f.
12	•		55	PX26d	64210SVS ⁸⁾¹¹⁾	15	24	•		5	BA15s	5627LTS 14)	27
12	•		55	X511	64173	21	24	•		5	BA15s	9627 16)	46
12	•		60	P20d	90058)	21, 39	24	•		5	SV8.5-8	6423	30, 46f.
12	•		60	P20d	9005CB®	17	24			5	SV8.5-8	6424	30
12	•		60	P20d	9005XS ⁸⁾	21	24	•		5	W2.1x9.5d		29, 47
12	•			P43t	90038)	21	24	•		10	BA15s	5637	30f., 46 f.
12	•		60/55	P43t	9003CB ⁸⁾¹¹⁾	17	24	•		10	BA15s	5637LTS 14)	27
12	•		60/55	P43t	64193	21, 39, 45	24	•		10	BA15s	9637 18)	46
12	•		60/55	P43t	64193CB ¹¹⁾	17	24			10	SV8.5-8	6429	30, 47
12	•		60/55		64193SVS ¹¹⁾	15	24			15	BA15s	7529	33
12	•		60/55		94193	21	24			15	SV8.5-8	6453	30
12	•			P43t	64193D ¹¹⁾	19	24		•	18	SV8.5-8	6480	30
12			60/55		64198	33	24			18/5	BAY15d	7244	33
12	•		65	PGJ19-5	64213 ⁸⁾	21, 39	24	•		21	BA15s	7511	29f., 46 f.
12			65	PX26d	64217	33	24	•		21	BA15s	7511LTS ¹⁴⁾	27
12	•		65	PX26d	64218	33	24	•		21	BA15s	9511 17)	46 f.
12			65/45	P29t	9004	23	24	•		21	BAU15s	7510 ⁵⁾¹⁴⁾	29
12			65/55		9007	23	24	•		21	BAU15s	7510LTS ¹⁴⁾	27
12			70/65		64205	33	24	•		21	BAY9s	64138	29
12				P43t	64206	33	24	•		21/5	BAY15d	7537	29f., 47
12				P43t	64206ALL	33	24			42 13)	27.11.00	XENAELECTRON®	,
12			100	P14.5s	62200	33						35W XT-D1/24\	
12			100	PK22s	62201	33	24			42 13)		XENAELECTRON®	
12			100	PKY22s	64153	33						35W XT-D1/24\	
12			100	PX14.5s	64152	33						TAB	
12			100/80		62203	33	24	•		55/50	P45t	7952	29
12			100/80		62203ALL	33	24	•		70	P14.5s	64155	29, 47
12			100/80		64194	33	24	•		70	P14.5s	64155LTS	27
24			1.2	B8.3d	2741MF8	31	24	•		70	PGJ19-2	64216	29
24			1.2	B8.5d	2741MF	31	24	•		70	PGJ19-2	64216LTS 14)	27
24			1.2	BX8.5d	2741MFX	31	24	•		70	PK22s	64156	29, 47
24			1.2	W2x4.6d	2741	31	24	•		70	PK22s	64156LTS	27
24		•	2	BA9s	3797	30 f.	24	•		70	PK26d	64215LTS	27
24		•	2	W2.1x9.5d		30 f.	24	•		70	PX26d	64215	29, 46 f.
24			3	SV7-8	6430	30	24	•		70	X511	64175	29
24			3	SV8.5-8	6421	30	24	•		75/70		64196	29, 46 f.
24	•		3	W2.1x9.5d		31, 47	24	•		75/70		64196LTS 14)	27
24	•		4	BA9s	3930	29ff., 46f.	24	•		75/70		94196	29, 46
24			4	BA9s	3930LTS 14)	27	24			75/70		64199	33
24	•		4	BA9s	9930 15)	46							

¹⁾ To be opperated only with suitable electronic control gear

²⁾ Reduced UV emission

³⁾ With anti-glare strip for reflection headlights

⁴⁾ Also available with glass base (product reference 6411150 or 6411350)

⁵⁾ Amber lamp for clear indicators

⁶⁾ Filled with xenon for high luminance

⁷⁾ Successor to BILUX®AS® lamp (product reference 7951)

⁸⁾ Lamps comply with ECE R 37 and SAE (DOT) regulations

⁹⁾ For projection headlights

¹⁰⁾ SAE and ECE approved

¹¹⁾ With silver cap

¹²⁾ LCL = 9.2 mm

¹³⁾ For operating an OSRAM D1 XENARC® electronic 35W gas discharge lamp

¹⁴⁾ Planned to be available from 2005

¹⁵⁾ Will be replaced by 3930LTS in 2005

¹⁶⁾ Will be replaced by 5627LTS in 2005

¹⁷⁾ Will be replaced by 7511LTS in 2005 18) Will be replaced by 5637LTS in 2005

Type summary by ECE/SAE standard

Internat. category	Rated volt-	Rated wattage	Base e	Product reference	See Page	Internat. category	Rated volt-	Rated wattage	Base e	Product reference	See Page
	age V	W					age V	W			
C5W	12	5	SV8.5-8	6418	22, 23, 39	H21W	12	21	BAY9s	64136	22, 39
C5W	12	5	SV8.5-8	6418D	19	H21W	24	21	BAY9s	64138	29
C5W	24	5	SV8.5-8	6423	30, 46f.	_HB1	12	65/45	P29t	9004	23
C21W	12	21	SV8.5-8	6476	23	HB2	12	60/55	P43t	90038)	21
D1R	1)	35	PK32d-3	66152 2)3)10)	35, 39	HB2 ¹⁵⁾ /H4	12	60/55	P43t	9003CB ⁸⁾¹¹⁾	17
D1S	1)	35	PK32d-2	66142 2) 9) 10)	35, 39	_HB3	12	60	P20d	9005CB ⁸⁾	17
D2R	1)	35	P32d-3	66050 2)3)10)	35, 39	_HB3	12	60	P20d	90058)	21, 39
D2S	1)	35	P32d-2	66040 2) 9) 10)	35, 39	HB3A	12	60	P20d	9005XS ⁸⁾	21
H1	12	55	P14.5s	64150®	21, 39, 45	HB4	12	51	P22d	9006CB ⁸⁾¹¹⁾	17
H1	12	55	P14.5s	64150CB ⁸⁾	17	HB4	12	51	P22d	90068)	21, 39
H1	12	55	P14.5s	64150D®	19	HB4A	12	51	P22d	9006XS ⁸⁾	21
H1	12	55	P14.5s	64150SVS®	15	HB5	12	65/55	PX29t	9007	23
H1	24	70	P14.5s	64155	29, 46f.	HS1	12	35/35	PX43t	64185	21
H1	24	70	P14.5s	64155LTS	27	P21W	12	21	BA15s	7506	22, 39, 45
H1	12	100	P14.5s	62200	33	P21W	24	21	BA15s	7511	29f., 46f.
H2	12	55	X511	64173	21	P21W	24	21	BA15s	7511LTS ¹⁴⁾	27
H2	24	70	X511	64175	29	P21W	24	21	BA15s	9511 ¹⁸⁾	46 f.
Н3	12	55	PK22s	64151 ⁸⁾	21, 39	P21/4W	12	21/4	BAZ15d	7225	22, 39
H3	12	55	PK22s	64151CB ⁸⁾	17	P21/5W	12	21/5	BAY15d	7528	22, 39, 45
H3	24	70	PK22s	64156	29, 47	P21/5W	12	21/5	BAY15d	7528D	19
H3	24	70	PK22s	64156LTS	27	P21/5W	24	21/5	BAY15d	7537	29 f., 47
H3	12	100	PK22s	62201	33	P27W	12	27	W2.5x16d		22
H4	12	60/55		64193	21, 39, 45	P27/7W	12	27/7	W2.5x16q		22
H4	12	60/55		64193CB ¹¹⁾	17	PY21W	12	21	BAU15s	7507 ⁵⁾	22, 39, 45
H4	12	60/55		64193D ¹¹⁾	19	PY21W	12	21	BAU15s	7507LDA	15, 17, 19
H4	12	60/55		64193SVS ¹¹⁾	15	PY21W	24	21	BAU15s	7510 ⁵⁾¹⁴⁾	29
H4	12	60/55		94193	21	PY21W	24	21	BAU15s	7510LTS ¹⁷⁾	27
H4	24	75/70		64196	29, 46f.	R2	12	45/40		7951	21, 39, 45
H4	24	75/70		64196LTS ¹⁴⁾	27	R2	12	45/40		64183 ⁷⁾	21
H4	24	75/70		94196	29, 46	R2	24	55/50		7952	29
H4	12	100/80		62203	33	R5W	12	5	BA15s	5007	22f., 39, 45
H6W	12	6	BAX9s	64132	21, 39	R5W	12	5	BA15s	5007D	19
H6W	12	6	BAX9s	64132CB	17	R5W	24	5	BA15s	5627	29ff., 46f.
H6W	12	6	BAX9s	64132D	19	R5W	24	5	BA15s	5627LTS ¹⁴⁾	27
H7	12	55	PX26d	64210 ⁸⁾	21, 39, 45	R5W	24	5	BA15s	9627 17)	46
H7	12	55	PX26d	64210CB ⁸⁾¹¹⁾	17	R10W	12	10	BA15s	5008	22f., 39
H7	12	55	PX26d	64210D ⁸⁾¹¹⁾	19	R10W	12	10	BA15s	5008D	19
H7	12	55	PX26d	64210SVS 8)11)	15	R10W	24	10	BA15s	5637	30f., 46f.
H7	12	65	PX26d	64218	33	R10W	24	10	BA15s	5637LTS ¹⁴⁾	27
H7	12	70/65		64205	33	R10W	24	10	BA15s	9637 ¹⁹	46
H7	24	70/03	PX26d	64215	29, 46f.	RY10W	12	10	BAU15s	5009	22
H7	24	70	PK26d	64215LTS	29, 401.	S1	12		BA20d	7326	21
H8	12	35	PGJ19-1	64212 ⁸⁾	21, 39	S2	12		BA20d	7327	21
H9	12	65	PGJ19-5	64213 ⁸⁾	21, 39	T4W	12	4	BA9s	3893	21, 23f., 39
	12	42	PY20d	9145 ⁸	21, 39	T4W	12	4	BA9s		17
H10 H11	12	55	PGJ19-2	64211 ⁸⁾	21, 39	T4W	12	4	BA9s	3893CB 3893D	19
										3930	
H11	12	55	PGJ19-2	64211D	19	T4W	24	4	BA9s		29ff., 46f.
H11	24	70	PGJ19-2	64216 64216LTC 14)	29	T4W	24	4	BA9s	3930LTS 14)	27
H11	24	70	PGJ19-2	64216LTS ¹⁴⁾	27	T4W	24	4	BA9s	9930 16)	46
H12	12	53	PZ20d	90558	21	W2.3W	12	2.3	W2x4.6d	2723	24

Type summary by ECE/SAE standard

Internat. category	Rated volt-	Rated wattag		Product reference	See Page	Internat. category	Rated volt-	Rated wattag	Base	Product reference	See Page
category	age V	W	G	Telefelice	raye	category	age V	W	,	Telefelice	raye
W3W	12	3	W2.1x9.5d	2821	24, 39		12	10	BA9s	64113 ⁴⁾	24
W3W	24	3	W2.1x9.5d	2841	31, 47		12	10	SV8.5-8	6411	23
W5W	12	5	W2.1x9.5d	2825	21 ff., 39, 45		12	10	SV8.5-8	6438	23
W5W	12	5	W2.1x9.5d	2825CB	17		12	10	SV8.5-8	6461	23
W5W	12	5	W2.1x9.5d	2825D	19		12	18	SV8.5-8	6475	23
W5W	12	5	W2.1x9.5d	2825HCB	17		12	20	BA9s	64115	24
W5W	24	5	W2.1x9.5d	2845	29, 47		12	41 13)		XENAELECTRON®	36
W16W	12	16	W2.1x9.5d	921	22, 39					XT5-1-D1/12V	
W21/5W	12	21/5	W3x16q	7515	22, 39		12	41 13)		XENAELECTRON®	36
W21W	12	21	•	7505	22, 39					XT5-3-D1/12V	
WY5W	12	5	W2.1x9.5d		22, 39					TAB	
	12	1.1	BX8.4d	2473MFX6	25		12	45/40	BA20d	7351	33
	12	1.2	BX8.4d	2351MFX6	25		12	60/55		64198	33
	12	1.2	B8.5d	2721MF	25		12	65	PX26d	64217	33
	12	1.2	B8.3d	2721MF8	25		12	85/80		64206	33
	12	1.2	BX8.5d	2721MFX	25		12	85/80		64206ALL	33
	12	1.2	W2x4.6d	2721	24		12	100	PKY22s	64153	33
	12	1.3	BX8.4d	2431MFX6 ¹²⁾	25		12	100	PX14.5s	64152	33
	12	1.5	B8.5d	2752MF	25		12	100/80		62203ALL	33
	12	1.5	BX8.4d	2452MFX6	25		12) PU43t	64194	33
	12	1.5	BX8.5d	2752MFX	25		24	1.2	B8.3d	2741MF8	31
	12	1.5		2731	24		24	1.2	B8.5d	2741MF	31
	12	2	B8.3d	2722MF8	25		24	1.2	BX8.5d	2741MFX	31
	12	2	B8.5d	2722MF	25		24	1.2	W2x4.6d	2741	31
	12	2	BA9s	3796	23 f.		24	2	BA9s	3797	30f.
	12	2	BX8.4d	2352MFX6	25		24	2	W2.1x9.5d		30f.
	12	2	BX8.5d	2722MFX	25		24	3	SV7-8	6430	30
	12	2	W2x4.6d	2722	24		24	3	SV8.5-8	6421	30
	12	2	W2.4.0d W2.1x9.5d		24		24	5	SV8.5-8	6424	30
	12	3	W2.1X9.30 B10d	64122MF	25		24	10	SV8.5-8	6429	30, 47
	12	3	B10d	64122MFX	25		24	15	BA15s	7529	33
	12	3	BA9s	3894	23 f.		24	15	SV8.5-8	6453	30
	12	3	SV7-8	6428	231.		24	18	SV8.5-8	6480	30
	12	5	B10d	64124MF	25		24	18/5	BAY15d	7244	33
								42 ¹³⁾	DATTOU		
	12	5	BA9s	3860	23f.		24	42 '"		XENAELECTRON®	
	12	5	BA9s	64111 ⁴⁾	24		24	40 13)		35W XT-D1/24V	
	12	5	BX10d	64124MFX	25		24	42 13)		XENAELECTRON®	
	12	5		6413	23					35W XT-D1/24V	
	12	6	BA9s	3886X ⁶⁾	24		0.4	75 /76	DAGI	TAB	00
	12	6		6486X ⁶⁾	24		24	75/70	P45t	64199	33
	12	6	W2.1x9.5d	2886X ⁶⁾	24						

¹⁾ To be opperated only with suitable electronic control gear

²⁾ Reduced UV emission

³⁾ With anti-glare strip for reflection headlights

⁴⁾ Also available with glass base (product reference 6411150 or 6411350)

⁵⁾ Amber lamp for clear indicators

⁶⁾ Filled with xenon for high luminance

⁷⁾ Successor to BILUX®AS® lamp (product reference 7951)

⁸⁾ Lamps comply with ECE R 37 and SAE (DOT) regulations

⁹⁾ For projection headlights 10) SAE and ECE approved

¹¹⁾ With silver cap

¹²⁾ LCL = 9.2 mm

¹³⁾ For operating an OSRAM D1 XENARC® electronic 35W gas discharge lamp

¹⁴⁾ Planned to be available from 2005

¹⁵⁾ SAE category reference, H4 with strict geometrical tolerances

¹⁶⁾ Will be replaced by 3930LTS in 2005 17) Will be replaced by 5627LTS in 2005

¹⁸⁾ Will be replaced by 7511LTS in 2005

Product reference	ECE Stan- dard	DIN Stan-	ECE/ SAE category	Rated volt- age V	Rated wattage W	Base	Test voltage V	Power draw W	Luminous flux Im	B_3/T_C	See page
		uaru		•			-				
921	•		W16W	12	16	W2.1x9.5d		19.4±10%	310±20%	1000 19)	22, 39
2351MFX6				12	1.2	BX8.4d	13.5	1.32±10%	7.5±20%	600/3000	25
2352MFX6	n			12	2	BX8.4d	13.5	2.13±10%	11.8±20%	1500/6000	25
2431MFX6 ¹²	2)			12	1.3	BX8.4d	13.5	1.28±15%	6.5±20%	1300/6000	25
2452MFX6				12	1.5	BX8.4d	13.5	1.8±10%	6.5±20%	1700/6500	25
2473MFX6				12	1.1	BX8.4d	14.0	1.12±10%	3.6±25%	500/5000	25
2721				12	1.2	W2x4.6d	13.5	1.22±10%	7.5±20%	500/2000	24
2721MF				12	1.2	B8.5d	13.5	1.2±10%	6.4±25%	500/2000	25
2721MF8				12	1.2	B8.3d	13.5	1.22±10%	$6.4 \pm 25\%$	500/2000	25
2721MFX				12	1.2	BX8.5d					25
2722				12	2	W2x4.6d	13.5	2±10%	12±25%	1300/4000	24
2722MF				12	2	B8.5d	13.5	2±10%	10.2±25%	1300/4000	25
2722MF8				12	2	B8.3d	13.5	2±10%	10.2±25%	1300/4000	25
2722MFX				12	2	BX8.5d					25
2723	•		W2.3W	12	2.3	W2x4.6d	13.5	$2.3 \pm 10\%$	18.6±20%	350/1200	24
2731				12	1.5	W2x4.6d	13.5	1.28±15%	$7.0 \pm 15\%$	1300/6000	24
2741				24	1.2	W2x4.6d	28.0	1.5±10%	$7.5 \pm 25\%$	400/2000	31
2741MF				24	1.2	B8.5d	28.0	1.6±10%	$6.4 \pm 25\%$	400/2000	31
2741MF8				24	1.2	B8.3d	28.0	1.6±10%	$6.4 \pm 25\%$	400/2000	31
2741MFX				24	1.2	BX8.5d					31
_2752MF				12	1.5	B8.5d	13.5	1.8±10%	$6.0 \pm 20\%$	1000/6500	25
2752MFX				12	1.5	BX8.5d					25
2820		•		12	2	W2.1x9.5d	13.5	2.2±10%	13.5±25%	600/4000	24
2821	•		W3W	12	3	W2.1x9.5d	13.5	3±10%	22±30%	1300/4000	24, 39
2825	•		W5W	12	5	W2.1x9.5d	13.5	5±10%	$50 \pm 20 \%$	350/1000	21ff., 39, 45
2825CB	•		W5W	12	5	W2.1x9.5d	13.5	5±10%	$50 \pm 20 \%$	200/500	17
2825D	•		W5W	12	5	W2.1x9.5d	13.5	5±10%	50±20%	700/1500	19
2825HCB	•		W5W	12	5	W2.1x9.5d	13.5	5±20%	$50 \pm 20\%$	800/2000	17
2827 5)	•		WY5W	12	5	W2.1x9.5d	13.5	5±10%	$30 \pm 20 \%$	350/1000	22, 39
2840		•		24	2	W2.1x9.5d	28.0	2.6±15%	13±30%	500/5000	30 f.
2841	•		W3W	24	3	W2.1x9.5d	28.0	4±15%	22±30%	500/5000	31, 47
2845	•		W5W	24	5	W2.1x9.5d	28.0	7±10%	50±20%	800/3000	29, 47
2886X ⁶⁾				12	6	W2.1x9.5d	13.5	6±10%	85±20%	400/1000	24
3156	•		P27W	12	27	W2.5x16d	13.5	29.2±10%	475±15%	600 19)	22
3157	•		P27/7W	12	27/7	W2.5x16q	13.5	29.2/	475/	600/5000 19)	22
								$7.7 \pm 10\%$	36±15%		
3796		•		12	2	BA9s	13.5	2±15%	12.5±30%	1000/2000	23 f.
3797		•		24	2	BA9s	28.0	3±15%	17.5±30%	1000/2000	30 f.
3860				12	5	BA9s	13.5	5±15%	50±20%	400/1000	23 f.
3886X ⁶⁾				12	6	BA9s	13.5	6±10%	80±20%	400/1000	24
3893	•		T4W	12	4	BA9s	13.5	4±10%	35±20%	600/1200	21, 23f., 39
3893CB	•		T4W	12	4	BA9s	13.5	4±10%	35±20%	300/750	17
3893D	•		T4W	12	4	BA9s	13.5	4±10%	35±20%	750/1500	19
3894				12	3	BA9s	13.5	3±10%	22±20%	1000/2000	23f.
3930	•		T4W	24	4	BA9s	28.0	5±10%	35±20%	550/1000	29ff., 46f.
3930LTS 14)	•		T4W	24	4	BA9s	28.0	5±10%	35±20%	550/1000	27
5007	•		R5W	12	5	BA15s	13.5	5±10%	50±20%	350/800	22f., 39, 45
5007D	•		R5W	12	5	BA15s	13.5	5±10%	50±20%	600/1200	19
5008	•		R10W	12	10	BA15s	13.5	10±10%	125±20%	350/800	22f., 39
								, 0	,		,

Product reference	ECE Stan-	DIN Stan-	ECE/ SAE	Rated volt-	Rated wattage	Base	Test voltage	Power draw	Luminous flux	B_3/T_C	See page
	dard	dard	category	age V	W		V	W	lm		
5008D			R10W	12	10	BA15s	13.5	10±10%	125±20%	600/1200	19
5009	•		RY10W	12	10	BAU15s					22
5627	•		R5W	24	5	BA15s	28.0	7±10%	50±20%	500/1000	29ff., 46f.
5627LTS 14)	•		R5W	24	5	BA15s	28.0	7±10%	50±20%	500/1000	27
5637	•		R10W	24	10	BA15s	28.0	12.5±10%	125±20%	400/800	30f., 46f.
5637LTS 14)	•		R10W	24	10	BA15s	28.0	12.5±10%	125±20%	1000/2000	27
6411		•		12	10	SV8.5-8	13.5	10±10%	min. 100	500/1000	23
6413				12	5	SV8.5-8	13.5	5±10%	50±20%	1000/2000	23
6418	•		C5W	12	5	SV8.5-8	13.5	5±10%	45±20%	1000/2000	22f., 39
6418D	•		C5W	12	5	SV8.5-8	13.5	5±10%	45±20%	1500/4000	19
6421				24	3	SV8.5-8					30
6423	•		C5W	24	5	SV8.5-8	28.0	7±10%	45±20%	1500/4000	30, 46f.
6424				24	5	SV8.5-8	28.0	7±10%	62±20%	1000/2000	30
6428				12	3	SV7-8	13,5	3,5±10%	29±20%	600/1200	23
6429				24	10	SV8.5-8	28.0	10±10%	105±20%	300/600	30, 47
6430				24	3	SV7-8	28.0	3±10%	min. 15	400/800	30
6438				12	10	SV8.5-8	13.5	10±10%	120±25%	500/1000	23
6453				24	15	SV8.5-8	28.0	15±8%	220±20%	75/200	30
6461				12	10	SV8.5-8	13.5	10±10%	105±20%	600/1200	23
6475		•		12	18	SV8.5-8	13.5	18±5%	min. 240	75/200	23
6476	•		C21W	12	21	SV8.5-8	13.5	25±6%	460±15%	100/300	23
6480		•		24	18	SV8.5-8	28.0	20±5%	min. 240	100/300	30
6486X ⁶⁾				12	6	SV8.5-8	13.5	6±10%	85±20%	350/600	24
7225	•		P21/4W	12	21/4	BAZ15d	13.5	25±6%/	440±15%/	180//290/	22, 39
								5±10%	15±20%	1250//4000	,
7244				24	18/5	BAY15d	28.0	18±6%/	min. 250/	75/20019)	33
								5±10%	35		
7326	•		S1	12	25/25	BA20d	13.5	25/	435/	100/10019)	21
								25±5%	315±20%		
7327	•		S2	12	35/35	BA20d	13.5	35/	650/	80/16019)	21
								35±10%	465±20%		
7351				12	45/40	BA20d					33
7505			W21W	12	21	W3x16d	13.5	25±6%	460±15%	400/600	22, 39
										(14.0 V)	
7506	•		P21W	12	21	BA15s	13.5	25±6%	460±15%	224/480	22, 39, 45
7507 ⁵⁾	•		PY21W	12	21	BAU15s	13.5	25±6%	280±20%	250/400	22, 39, 45
7507LDA	•		PY21W	12	21	BAU15s	13.5	25±6%	280±20%	500/1000	15, 17, 19
7510 5)14)		•	PY21W	24	21	BAU15s	28.0	28±6%	280±20%	250/500	29
7510LTS ¹⁴⁾	•		PY21W	24	21	BAU15s	28.0	28±6%	280±20%	250/500	27
7511	•		P21W	24	21	BA15s	28.0	28±5%	460±15%	200/400	29f., 46f.
7511LTS 14)	•		P21W	24	21	BA15s	28.0	28±6%	460±15%	250/500	27
7515	•		W21/5W	12	21/5	W3x16q	13.5	25±6%/	440±15%/	400//600	22, 39
								6±10%	35±20%	(14.0 V)/	
										>3000//	
										>3000	
										(14.0 V)	
7528	•		P21/5W	12	21/5	BAY15d	13.5	25±6%/	440±15%/	180//290/	22, 39, 45
								6±10%	35±20%	1250//4000	

Product reference	ECE Stan- dard	DIN Stan- dard	ECE/ SAE category	Rated volt- age V	Rated wattage W	Base	Test voltage V	Power draw W	Luminous flux Im	B_3/T_C	See page
7528D	•		P21/5W	12	21/5	BAY15d	13.5	25±6%	440±15%/ 35±20%	300//800/ 3000// 6000	19
7529				24	15	BA15s	28.0	15±10%	210±25%	100/300	33
7537	•		P21/5W	24	21/5	BAY15d	28.0	28±6% 10 ± 10 %	440±15% 40 ± 20 %	150/1500	29f., 47
7951	•		R2	12	45/40	P45t	13.2	max. 57/51	min. 860/ 675±15%	80//150/ 150//350	21, 39, 45
7952	•		R2	24	55/50	P45t	28.0	max. 76/69	min. 1000/ 730 990	65//110/ 150//250	29
90038)	•		HB2	12	60/55	P43t			700 111 000		21
9003CB ⁸⁾¹¹⁾	•		HB2 ²⁰⁾ /H4	12	60/55	P43t	13.2	max. 75/68	1650/	50//100/	17
									1000±15%	150//300	
9004			HB1	12	65/45	P29t	12.8	max. 70/50	1200/	150/320	23
									700±10%	(14.0 V) 19)	
90058)	•		HB3	12	60	P20d	13.2	max. 73	1860±12%	280/550	21, 39
9005CB ⁸⁾	•		HB3	12	60	P20d	13.2	max. 73	1860±12%	70/135	17
9005XS ⁸⁾	•		HB3A	12	60	P20d	13.2	max. 73	1860±12%	280/550	21
90068)	•		HB4	12	51	P22d	13.2	max. 62	1095±15%	860/1720	21, 39
9006CB ⁸⁾¹¹⁾	•		HB4	12	51	P22d	13.2	max. 62	1095±15%	200/410	17
9006XS ⁸⁾	•		HB4A	12	51	P22d	13.2	max. 62	1095±15%	860/1720	21
9007			HB5	12	65/55	PX29t	12.8	max. 70/60	1350/	250/500	23
									1000±10%	(14.0 V) 19)	
90558)	•		H12	12	53	PZ20d	13.2	max. 61	1050±15%	770/1550	21
91458)	•		H10	12	42	PY20d	13.2	max. 50	850±15%	860/1720	21
9511117)	•		P21W	24	21	BA15s	28.0	28±6%	460±15%	250/500	46 f.
9627 16)	•		R5W	24	5	BA15s	28.0	7±10%	50±20%	500/1000	46
9637 18)	•		R10W	24	10	BA15s	28.0	12.5±10%	125 ± 20 %	1000/2000	46
9930 15)	•		T4W	24	4	BA9s	28.0	5±10%	35±20%	550/1000	46
62200				12	100	P14.5s					33
62201				12	100	PK22s					33
62203				12	100/80	P43t					33
62203ALL				12	100/80						33
641114)				12	5	BA9s	13.5	5±7.5%	80±15%	150/500	24
641134)				12	10	BA9s	13.5	10.3±7.5%		150/400	24
64115				12	20	BA9s	13.5	$22.5 \pm 7.5 \%$		150/500	24
64122MF				12	3	B10d	13.5	3±7.5%	29±15%	900/2000	25
64122MFX				12	3	B10d					25
64124MF				12	5	B10d	13.5	5±7.5%	52.8±15%	900/2000	25
64124MFX			11011	12	5	BX10d	40.5	7 50	105 100	0.50 / 700	25
64132	•		H6W	12	6	BAX9s	13.5	7±5%	125±12%	350/700	21, 39
64132CB	•		H6W	12	6	BAX9s	13.5	7±5%	125±12%	200/400	17
64132D	•		H6W	12	6	BAX9s	13.5	7±5%	125±12%	600/1000	19
64136	•		H21W	12	21	BAY9s	13.5	25±5%	600±12%	300/600	22, 39
64138	•		H21W	24	21	BAY9s	28.0	28±5%	600±12%	150/400	29
64150 ⁸⁾	•		H1	12	55	P14.5s	13.2	max. 68	1550±15%	400/650	21, 39, 45
64150CB ⁸⁾	•		H1	12	55	P14.5s	13.2	max. 68	1550±15%	150/250	17
64150D ⁸⁾	•		H1	12	55	P14.5s	13.2	max. 68	1550±15%	1200/2000	19

Product reference	ECE	DIN Stan-	ECE/ SAE	Rated volt-	Rated wattage	Base	Test voltage	Power	Luminous flux	B_3/T_C	See
reference	dard				Wallaye		Voltage	draw W	lm		page
	uaru	uaru	category	age V	VV		V	VV	1111		
64150SVS ⁸⁾	•		H1	12	55	P14.5s	13.2	max. 68	1730±3%	150/350	15
64151 ⁸⁾	•		H3	12	55	PK22s	13.2	max. 68	1450±15%	400/650	21, 39
64151CB ⁸⁾	•		H3	12	55	PK22s	13.2	max. 68	1450±15%	150/250	17
64152				12	100	PX14.5s	13.2	93±5%	2600±10%	50 19)	33
64153				12	100	PKY22s	13.2	85±5%	2300±10%	50 19)	33
64155	•		H1	24	70	P14.5s	28.0	max. 84	1900±15%	400/650	29, 46 f.
64155LTS	•		H1	24	70	P14.5s					27
64156	•		H3	24	70	PK22s	28.0	max. 84	1750±15%	400/650	29, 47
64156LTS	•		Н3	24	70	PK22s					27
64173	•		H2	12	55	X511	13.2	max. 68	1800±15%	90/250	21
64175	•		H2	24	70	X511	28.0	max. 84	2150±15%	90/250	29
641837)	•		R2	12	45/40	P45t	13.2	48.5/	1030/740	250//400/	21
								46.5±6%	+12%/+5%	500//1200	
									-15%		
64185	•		HS1	12	35/35	PX43t	13.2	max. 36.8/	825/	150//150/	21
								36.8	525±15%	300//300	
64193	•		H4	12	60/55	P43t	13.2	max. 75/68	1650/1000	250//400/	21, 39, 45
									±12%/±15%	500//900	
64193CB ¹¹⁾	•		H4	12	60/55	P43t	13.2	max. 75/68	1650/1000	50//100/	17
									±15%	150//350	
64193D ¹¹⁾	•		H4	12	60/55	P43t	13.2	max. 75/68	1650/1000	250//1200/	19
									±12%/±15%		
64193SVS ¹¹⁾	•		H4	12	60/55	P43t	13.2	max. 75/68	1700/1075	150//150/	15
									±10%/±7%	350//350	
64194				12	100/80	PU43t	13.2	max. 109/85		75/150	33
									±15%		
64196	•		H4	24	75/70	P43t	28.0	max. 85/80	1900/1200	170//350/	29, 46f.
									±15%	400//800	
64196LTS 14)	•		H4	24	75/70	P43t					27
64198				12	60/55	P45t					33
64199				24	75/70	P45t					33
64205				12	70/65	P43t					33
64206				12	85/80	P43t					33
64206ALL				12	85/80	P43t					33
64210 ⁸	•		H7	12	55	PX26d	13.2	max. 58	1500±10%	330/550	21, 39, 45
64210CB ⁸⁾¹¹⁾			H7	12	55	PX26d	13.2	max. 58	1500±10%	100/200	17
64210D ⁸⁾¹¹⁾			H7	12	55	PX26d	13.2	max. 58	1500±10%	450/930	19
64210SVS ⁸⁾¹¹			H7	12	55	PX26d	13.2	max. 58	1500±10%	150/220	15
64211 ⁸⁾	•		H11	12	55	PGJ19-2	13.2	max. 62	1350±10%	1000/2000	21, 39
64211D	•		H11	12	55	PGJ19-2	13.2	max. 62	1350±10%	1000/2000	19
64212 ⁸⁾	•		H8	12	35	PGJ19-1	13.2	max. 43	800±15%	400/800	21, 39
64213 ⁸⁾	•		H9	12	65	PGJ19-5	13.2	max. 73	2100±10%	250/500	21, 39
64215	•		H7	24	70	PX26d	28.0	max. 75	1750±10%	220/500	29, 46f.
64215LTS	•		H7	24	70	PK26d	20.0	mux. 70	1700 ± 10 /0	220/000	27
64216	•		H11	24	70	PGJ19-2					29
64216LTS ¹⁴⁾			H11	24	70	PGJ19-2					27
64216L13 ···			1111	12	65	PX26d					33
			П 2								
66218	•		H7	12	65	PX26d					33

Product reference	ECE DIN Stan- Stan- dard dard	ECE/ SAE category	Rated volt- age V	Rated wattage W	Base	Test voltage V	Power draw W	Luminous flux Im	B_3/T_C	See page
66040 2) 9) 10)	•	D2S	1)	35	P32d-2	85.0	35±3%	3200±15 %	1500/3000	35, 39
66050 2) 3) 10)	•	D2R	1)	35	P32d-3	85.0	35±3%	2800±16 %	1500/3000	35, 39
66142 2) 9) 10)	•	D1S	1)	35	PK32d-2	85.0	35±3%	3200±15 %	1500/3000	35, 39
66152 2) 3) 10)	•	D1R	1)	35	PK32d-3	85.0	35±3%	2800±16 %	1500/3000	35, 39
94193	•	H4	12	60/55	P43t	13.2	max. 75/68	1650±12 %	300//1100	21
								1000±15 %	/500//2400	
94196	•	H4	24	75/70	P43t	28.0	max. 85/80	1900±15 %	170//500/	29, 46
								1200±10 %	400//1500	
_XENAELECTF	RON® 35W XT5-	·1-D1/12V	12	41 13)						36
XENAELECTF	RON® 35W XT5-	-3-D1/12V TAB	12	41 13)						36
XENAELECTF	RON® 35W XT-D	1/24V	24	4213)						36
_XENAELECTF	RON® 35W XT-D	1/24V TAB	24	4213)						36

Cable for electronic control gear XENAELECTRON®

Product		See
reference		page
Input Connector	Cable	37
32340	Cable	37
32342	Cable	37
32344	Cable	37
32346	Cable	37
32350	Cable	37
32356	Cable	37
32358	Cable	37
32360	Cable	37
32362	Cable	37

Key: 1-filament lamp e.g. 100/300

2-filament lamp e.g. 100//300/500//100



- 1) To be opperated only with suitable electronic control gear
- 2) Reduced UV emission
- 3) With anti-glare strip for reflection headlights
- 4) Also available with glass base (product reference 6411150 or 6411350)
- 5) Amber lamp for clear indicators $\,$
- 6) Filled with xenon for high luminance $\,$
- 7) Successor to BILUX®AS® lamp (product reference 7951)
- 8) Lamps comply with ECE R 37 and SAE (DOT) regulations
- 9) For projection headlights
- 10) SAE and ECE approved
- 11) With silver cap

- 12) $LCL = 9.2 \, mm$
- 13) For operating an OSRAM D1 XENARC® electronic 35W gas discharge lamp
- 14) Planned to be available from 2005
- 15) Will be replaced by 3930LTS in 2005
- 16) Will be replaced by 5627LTS in 2005
- 17) Will be replaced by 7511LTS in 2005
- 18) Will be replaced by 5637LTS in 2005
- 19) B_{50} = average life

Key: 1-filament lamp e.g. 100

2-filament lamp e.g. 100/300

20) SAE category reference, H4 with strict geometrical tolerances

The base stamp



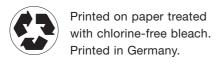
The base stamp (this is the base of an OSRAM H8 lamp) contains the most important lamp data.

The symbols

ECE	Int. ECE category	V	Voltage in V
SAE	SAE category	Hz	Mains frequency in Hz
E.	ECE standard	°C minmax.	Temperature range
COLOR	Base colour		Base
*	For lamp	No.	Fig. No.
⊅ — Lamp	Connector to lamp	g	Weight
ECG	Connector to control gear	b [mm]	Width b in mm
W	Rated wattage in W	h [mm]	Height h in mm
Α	Rated current in amps	[mm]	Length I in mm
			Shipping unit

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

For more information on our products go to: **www.osram.com**



Subject to change without notice. Errors and omission excepted.



The bright new star on Europe's highways: OSRAM TRUCKSTAR. Burns 100% brighter and lasts 100% longer.

This leaves the competition in the dust: The OSRAM TRUCKSTAR 24 V with new coil technology combines more light output with more long-lasting durability. So that driver and freight arrive still more safely. And only the costs fall by the wayside: Thanks to this dependable innovation, lamp-replacement intervals are extended, saving you cold cash. Get to know our new star: www.osram.com



Head office Germany

OSRAM GmbH Hellabrunner Straße 1 81543 München Tel.: +49-89-62 13-0 Fax: +49-89-62 13-20 20

International addresses

Albania

(supported by OSRAM Greece)

Argentina

OSRAM Argentina S.A.C.I. Ramos Mejia 2456 B 1643 ADN Beccar Pcia. De Buenos Aires Tel.: +54-11-6333-8000 Fax: +54-11-6333-8001

Australia

OSRAM Australia Pty. Ltd. Sydney 11th Floor, Building 1 423 Pennant Hills Road 2120 Pennant Hills P.O. Box 673 1715 Pennant Hills Tel.: +61-29-4 81-83 99 Fax: +61-29-4 81-94 68

Austria

OSRAM GmbH Lemböckgasse 49/C/5 1230 Wien Postfach 1 62 1231 Wien Tel.: +43-1-6 80 68-0 Fax: +43-1-6 80 68-7

Azores

(supported by OSRAM Portugal)

Belgium

OSRAM N.V. Greenhill Campus Haasrode Interleuvenlaan 15 C 3001 Leuven (Heverlee) Tel.: +32-2-7 19 29 11 Fax: +32-2-7 21 40 85

Bosnia-Herzegovina

(supported by OSRAM Croatia)

OSRAM do Brasil Lâmpadas Elétricas Ltda. Av. Dos Autonomistas, 4229 06090-901 Osasco-SP/Brazil Tel:: +55-11-36 84 74 08 Fax: +55-11-36 85 94 95

Bulgaria

OSRAM EOOD OSRAM EOOD Nikola Obreschkov 1 Wh. A., App. 1 1113 Sofia Tel.: +359-2-9 71 22 62 Fax: +359-2-9 71 45 46

Canada

OSRAM SYLVANIA Ltd /Lte 2001 Drew Road Mississauga Ontario L5S 1S4 Tel.: +1-905-6 73 61 71 Fax: +1-905-6 71 55 84

Chile

OSRAM Chile Ltda. Santa Elena de Huechuraba 1135 B Comunade Huechuraba Santiago de Chile Tel.: +56-2-7 40-09 39 Fax: +56-2-7 40-04 66

OSRAM Foshan Lighting Co. Ltd. No.1 North Industrial Road, Postal Code 528 000 Foshan, Guangdong Tel.: +86-757-864 82-111 Fax: +86-757-864 82-222

OSRAM Shanghai Rep. Office Harbour Ring Plaza No. 18 Xi Zang Middle Road Room 2802, 2803 A Shanghai, 200001 P.R.C. Tel.: +86-21-53 86 28-48 Fax: +86-21-64 86 12-19

Colombia

OSRAM de Colombia Diagonal 109 No. 21-05 Oficina 607, 608 Bogotá Tel.: +57-1-6 19 24 07 Fax: +57-1-6 37 18 55

Croatia

OSRAM d.o.o. Majstora Radonje 10 10000 Zagreb Tel.: +385-1-303-20 00 Fax: +385-1-303-20 01

Czechia

OSRAM spol. s.r.o. Kodanska 1441/46 100 10 Praha 10 Tel.: +420-234 06 60 00 Fax: +420-234 06 60 20

Denmark

OSRAM A/S Dybendalsvænget 3 2630 Tåstrup Postboks 259 2630 Tåstrup Tel.: +45-44-77 50-00 Fax: +45-44-77 50-55

Egypt

OSRAM Rep. Office Cairo 5th Floor, Unit No. 507 57 Giza Street Cairo, Giza Tel.: +20-2-7 48 66 46 Fax: +20-2-7 48 66 46

Ecuador

OSRAM del Ecuador S.A. Casilla 09-01-8410 Guayaquil Tel.: +593-4-2 89 36 09 Fax: +593-4-2 89 35 58

Estonia

(supported by OSRAM Finland)

Finland

Ov OSRAM AB. Helsinki Vanha Porvoontie 229 01380 Vantaa Box 91 01301 Vantaa

Tel.: +358-9-74 22 33 00 Fax: +358-9-74 22 33 74

France OSRAM SASU

5, Rue d'Altorf 67124 Molsheim BP 1 09 67124 Molsheim Tel.: +33-388-49 75 99 Fax: +33-388-49 75 975

Great Britain

OSRAM Ltd., London OSRAM House Waterside Drive Langley, Berkshire SL3 6EZ Tel.: +44-17 53 48 4 (100) Fax: +44-17 53 48 42 22

Greece

OSRAM A.E. Frantzi 6 & Ag. Pavlon 12132 Peristeri Tel.: +30-210-5 20 18 00 Fax: +30-210-5 22 72 00

Hong Kong

OSRAM Prosperity Co. Ltd. Rm 4007-09 Office Tower Convention Plaza 1 Harbour Road, Wanchai Tel.: +852-25 11 22 68 Fax: +852-25 11 20 38

Hungary OSRAM KFT. Alkotas utca 41. 1123 Budapest Tel.: +36-1-2 25-30 55 Fax: +36-1-2 25-30 54

India

OSRAM India Private Ltd. OSHAM India Private Ltd. Signature Towers, 11th Floor, Tower-B South City-I 122001 Gurgaon Haryana/India Tel:. +91-124-238 31-80 Fax: +91-124-238 31-82

Indonesia

PT. OSRAM Indonesia Jalan Siliwangi KM 1 Desa Keroncong Jatiuwung 15134 Tangerang Tel.: +62-21-5-90 01 27 Fax: +62-21-5 90 05 59

OSRAM Lamps OSRAM PJS Co. Bokharest Ave, Str. 6, No. 13 Tehran Tel.: +98-21-8 73 84 76 Fax: +98-21-8 73 24 13

OSRAM Società Riunite OSRAM Edison-Clerici Spa Via Savona 105 20144 Milano Tel.: +39-02-42 49-1 Fax: +39-02-42 49-380

Japan

OSRAM MELCO Ltd. Tobu Yokohama Bldg.No. 3 (4F) 8-29 Kita-Saiwai 2-chome, Nishi-Ku

220-0004 Yokohama Tel.: +81-45-3 23 51-20 Fax: +81-45-3 23 51-55

OSRAM Ltd. USHAM Ltd. Tobu Yokohama Bldg.No. 3 (6F) 8-29 Kita-Saiwai 2-chome, Nishi-Ku 220-0004 Yokohama Tel:: +81-45-3 23 51-00 Fax: +81-45-3 23 51-10

Korea

OSRAM Korea Co. Ltd. 3rd. Fl. Ye-Sung Bldg. 150-30 Samsung-dong, Kangnam-Ku Seoul 135-090 Tel.: +82-2-5 54 41 12 Fax: +82-2-5 56 16 44

Latvia

(supported by OSRAM Finland)

Lithuania

(supported by OSRAM Finland)

Macedonia

(supported by OSRAM Greece)

Madeira

(supported by OSRAM Portugal)

Malaysia

OSRAM Sdn Bhd 7.05-7.06 Amoda Building 22 Jalan Imbi 55100 Kuala Lumpur Tel.: +60-3-21 45 95-33 Fax: +60-3-21 45 95-35

Mexico

OSRAM de México, S.A. de C.V. Camino a Tepalcapa No. 8 Col. San Martin 54900 Tultitlán Edo. de México Tel.: +52-55-58 99-18 00 Fax: +52-55-58 84-70 00

Netherlands

OSRAM Nederland B.V. Vennootsweg 15 2404 CG Alphen a/d Rijn Postbus 3 32 2400 Alphen a/d Rijn Tel.: +31-172-48 38 38 Fax: +31-172-44 30 25

Norway

OSRAM AS OSRAW AS Strandveien 50 1366 Lysaker Tel.: +47-67 83 67-00 Fax: +47-67 83 67-40

Philippines

OSRAM Philippines Ltd. Corp. Unit 2002–2003
Antel Global Corporate Center
Julia Vargas Avenue
Ortigas Center Pasig City
Tel.: +632-687 60 48-50
Fax: +632-687 60 57

Poland

OSRAM sp. z o.o. ul. Wiertnicza 117 02-952 Warszawa Tel.: +48-22-550 23 00 Fax: +48-22-550 23 19

Portugal

OSRAM Empresa de Aparelhagem Eléctrica Lda. Rua do Alto do Montijo Nr. 15-4 andar 2795-619 Carnaxide Tel.: +351-2 14 16 58 60 Fax: +351-2 14 17 12 59

Romania

OSRAM Romania S.R.L. Calea Plevnei nr. 139 corp B, sector 6 060011 Bucaresti Tel.: +40-21-2077-386 Fax: +40-21-2077-389

Russia

OSRAM Moscow UI. Malaja Kaluschskaja 15/4 119071 Moscow Tel.: +7-095-9 35 70-70 Fax: +7-095-9 35 70-76

Singapore

OSRAM Pte. Ltd. 159 Sin Ming Road #05-04 Amtech Building 575625 Singapore Tel.: +65-65 52 01 10 Fax: +65-65 52 71 17

Slovakia

OSRAM Nové Zámky Komárnanská cesta 7 94093 Nové Zámky Tel.: +42-1-35 64 64-0 Fax: +42-1-35 64 64-880

Slovenia

(supported by OSRAM Austria)

South Africa

OSRAM (Pty.) Ltd., 260, 15th Road 1683 Randjespark/Midrand Private BAG X 206 1685 Halfway House/Midrand Tel.: +27-11-2 07 56 00 Fax: +27-11-8 05 17 11

Spain

OSRAM, S.A. Calle de la Solana, 47 28850 Torrejón de Ardoz (Madrid) Tel: + 34-91-6 55 52 00 Fax: +34-91-6 56 82 16

Sweden OSRAM AB OSHAM AB Rudanvägen 1 13650 Haninge Box 5 04 13650 Haninge Tel.: +46-8-7 07 44-00 Fax: +46-8-7 07 44-40

Switzerland

OSRAM AG, Winterthur In der Au 6 8401 Winterthur/Töss Postfach 2179 8401 Winterthur/Töss Tel.: +41-52-2 09 91 91 Fax: +41-52-2 09 92 75

Talwan
OSRAM Taiwan Company Ltd.
Sung Chiang Road, 7th Floor, No. 87
Sug Ching Road
P.O. Box 46304
Taipei - Taiwan, R.O.C.
Tel.: +886-2-25 08 35 02
Fax: +886-2-25 09 67 82

Thailand

Thailand
OSRAM Thailand Co. Ltd.
100/45, 24th Floor
Sathorn Nakorn Tower
North Sathorn Road
Khwaeng Silom
Khet Bangrak, Bangkok 10500
Tel.: +66-2-6 36 74 75
Fax: +66-2-6 36 74 77

Turkey OSRAM AMPUL TIC. A.S. Meclisi Mebusan Caddesi 125 80400 Findikli, Istanbul/TR Tel.: +90-212-334-1334 Fax: +90-212-334-1142

Ukraine

OSRAM Rep. Office ul. Vorovskogo, 36 01054 Kiev/Ukraine Tel.: +380-44-2 46 93 14 Fax: +380-44-2 46 99 91

United Arab Emirates

OSRAM Middle East FZE P.O. Box 17476 Room #602-603, LOB #16 Jebel Ali Free Zone Dubai United Arab Emirates Tel.: +971-4-88 13-767 Fax: +971-4-88 13-769

USA

OSRAM SYLVANIA INC. 100 Endicott Street Danvers, MA 01923 Tel.: +1-978-777-19 00 Fax: +1-978-750-21 52

Vietnam

OSRAM Singapore Pte. Ltd. Rep. Office Vietnam 59A Ly Thai To Street, Hanoi Press Club Hoan Kiem District Hanoi Tel.: +84-4-93 49-801 Fax: +84-4-93 49-803

Yugoslavia

Rep. Office of OSRAM GmbH Predstavništvo OSRAM GmbH Čika Ljubina 15/V 11000 Beograd Tel.: +381-11-30 30-860 Fax: +381-11-30 30-853

Internet

http://www.osram.de http://www.osram.com http://catalog.myosram.com/DE http://catalog.myosram.com/EN



