Light is guiding

Tungsten halogen lamps for airfield lighting

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The right light source for airfields

Tungsten halogen technology: perfected for airfield lighting

Longevity and reasonable maintenance costs account for the success of tungsten halogen lamps as light sources for demanding airfield lighting applications.
OSRAM tungsten halogen lamps provide an instant and constant output over the long lifetime. They are dimmable and allow flicker-free operation. Moreover, their small bulb dimensions and high luminance enable compact designs of airfield lights.

OSRAM offers tungsten halogen lamps from 30 to 200 W, either with or without reflector. Due to their IR radiation, they can be used even in extreme weather conditions such as low temperatures and snow.

Airfield lighting systems provide essential visual guidance for aircraft taxi, take-off, approach and landing.
OSRAM 6.6A tungsten halogen lamps for the airfield lighting industry combine high performance with long life to keep airfield maintenance costs down, while upholding high standards of safety and reliability. OSRAM uses state-of-the-art equipment and processes to yield high quality lamps with precision filament alignment for the best optical performance within the fixture. Airfield fixture manufacturers around the world choose OSRAM lamps due to their consistent and reliable performance.

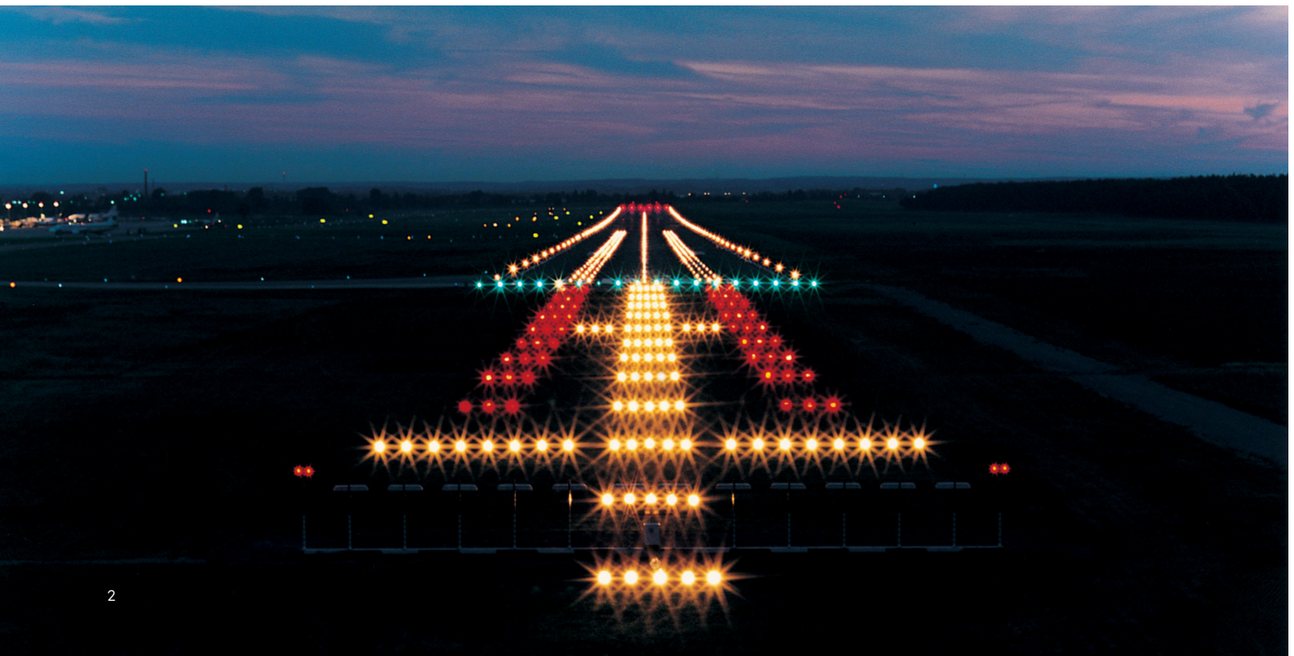
Benefits of working with OSRAM
- OSRAM is your experienced partner in the airfield segment
- OSRAM is a high-quality supplier with a global footprint
- Long-lasting products through intensive testing during development and production
- Application support for optics, electronics,
- thermal management etc.
- Comprehensive patent portfolio
- OSRAM also offers customized solutions

Application Information

Applications
- Runway
- Taxiway

Typical Fixtures
- Elevated runway and taxiway lights
- Inset runway and taxiway lights
- Approach lights (PAPI)
- Guidance signs

Application Notes
- 1. Lamps to be operated on 6.6A circuits
- 2. Many OEM fixtures are FAA and/or ICAO approved with OSRAM lamps
- 3. Lamps available with connector combinations A, B, Z/C on request
- 4. Pk30d base is pre-focused
- 5. Note burning position for each lamp



Tungsten halogen airfield lamps

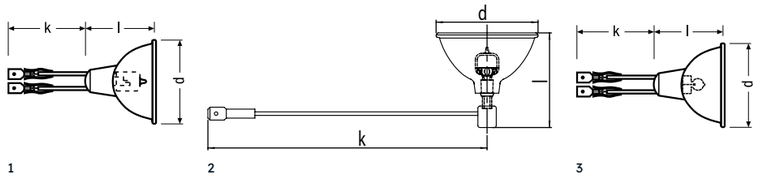
Pre-focus technology
Lamps with Pk30d bases offer an unsurpassed precision of filament alignment and make adjustments unnecessary. Lamps with integrated reflectors are designed to be mounted at the reflector rim. They, too, allow for quick replacement without any additional adjustment. All in all, pre-focusing translates into the same light output after lamp replacement with no adjustment effort and therefore reduces the maintenance costs.

Cold beam reflector technology
Because of their small prisms, inset lights with very low projection above ground place very high demands on the directional precision of the light beam.

Halogen capsules must be exactly adjusted in optimized parabolic reflectors for maximum effect. These ready-made pre-focused optical systems generate very narrow light beams of unsurpassed directional precision. Cold beam reflectors prevent heat from being concentrated on optical parts of luminaires such as filters, lenses or prismus.

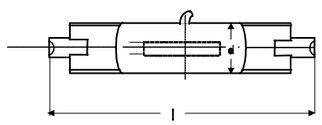
IRC technology (Infrared Reflective Coating)
Halogen lamps don't just produce light. 60 % of the created radiation is in the form of infrared (IR) rays. The innovative IRC technology increases the efficiency of halogen lamps by reflecting a major part of the generated IR radiation back to the coil where it is converted into visible light. This new technology results in a higher light output and/or in an increased lamp life.

OSRAM is offering a new lamp family with IRC technology as a replacement for existing lamps with double or even triple lifetime.



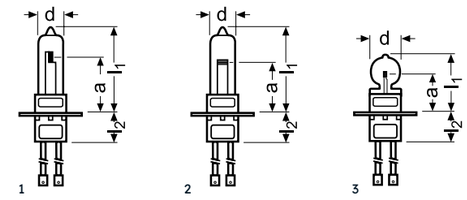
Reflector lamps, for series at 6.6 Ampere (burning position: any)

Product Name	EAN	W	t [h]	kcd	d max. [mm]	l max. [mm]	Cable length	Con-nector	No.	
64331 FL-A 30-10	4008321229564	30	1000	4.3	50.4	48	125	female	1	20
64331 FL-AC 30-10	4008321102584	30	1000	4.3	50.4	48	125	female, male	1	20
64331 SP-A 30-10	4008321102560	30	1000	18	50.4	48	125	female	1	20
64333 A 40-15	4008321166340	40	1500	12.7	35.3	37	125	female	1	20
64333 B 40-15	4008321104731	40	1500	12.7	35.3	37	125	female round	1	20
64333 C 40-15	4008321104885	40	1500	12.7	35.3	37	125	male	1	20
64336 A 62-15	4008321186713	62	1500	31.5	50.4	45	125	female	1	20
64337 A 45-15	4008321102737	45	1500	21	50.4	45	125	female	1	20
64337 B 45-15	4008321105226	45	1500	21	50.4	45	125	female round	1	20
Long life 64337 IRC-C 48W-30	4008321341198	48	3000	23	50.4	45	125	male	3	20
64337 A 48-15	4008321102737	48	1500	23	50.4	45	125	female	1	20
64337 B 48-15	4008321105226	48	1500	23	50.4	45	125	female round	1	20
64337 C 48-15	4008321105240	48	1500	23	50.4	45	125	male	1	20
Long life 64337 IRC-A 48-30	4008321341174	48	3000	23	50.4	45	125	female	3	20
64338 AC 48-10	4008321105301	48	1000	27	50.4	45	125	female, male	1	20
64339 A 105-10	4008321101600	105	1000	32	50.4	48	125	female	2	20
64339 AC 105-10	4008321105424	105	1000	32	50.4	48	125	female, male	2	20
64339 B 105-10	4008321105462	105	1000	32	50.4	48	125	female round	2	20
64339 C 105-10	4008321105486	105	1000	32	50.4	48	125	male	2	20



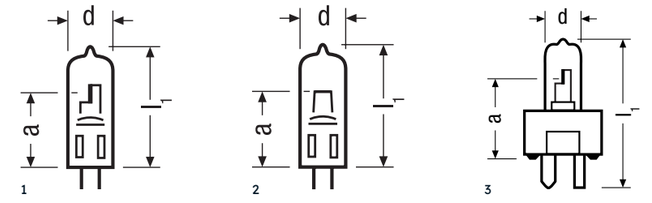
Double-ended lamps, for series operation at 6.6 Ampere

Product Name	EAN	LIF	W	t [h]	lm			d max. [mm]	l [mm]	No.	
64340	4050300017266	J1/82	100	1000	2170	R7s	horizontal	51	65.6	1	25
64380	4050300209944	J1/40	200	1000	4400	R7s	any	15	65.6	1	25



Lamps with PK30d base, for series operation at 6.6 Ampere (burning position: s90)

Product Name	EAN	LIF	W	t [h]	lm	Con-nector	LCL a [mm]	d max. [mm]	l1 max. [mm]	l2 max. [mm]	No.	
64317 C 45-15	4008321345493		45	1500	800	male	16	13.5	36	20	1	100
Long life 64317 IRC-C 45-30	4008321340139	J1/76	45	3000	800	male	16	15	28	20	3	100
64318 A 45-15	4008321345516	J1/76	45	1500	800	female	16	13.5	30	20	1	100
64318 Z/C 45-15	4008321345530	J1/77	45	1500	800	male	16	13.5	30	20	1	100
64319 A 45-15	4008321345554		45	1500	800	female	20	13.5	34	16	1	100
64319 Z/C 45-15	4008321345578	J1/77	45	1500	800	male	20	13.5	34	16	1	100
Long life 64319 IRC-A 45-30	4008321340153		45	3000	800	female	20	15	32	16	3	100
64328 HLX-A 65-15	4008321345592		65	1500	1450	female	20	13.5	32	16	2	100
64328 HLX -Z 65-15	4008321345615		65	1500	1450	male	20	13.5	32	16	2	100
64341 HLX-A 100-15	4008321345639	J1/79	100	1500	2700	female	20	13.5	32	16	2	100
64341 HLX-Z/C 100-15	4008321345653	J1/79	100	1500	2700	male	20	13.5	32	16	2	100
64342 HLX-C 100-15	4008321345677	J1/80	100	1500	2700	male	20	13.5	40	16	2	100
64361 HLX-A 150-15	4008321345691	J1/83	150	1500	3600	female	20	13.5	34	16	2	100
64361 HLX-Z/C 150-15	4008321345714	J1/83	150	1500	3600	male	20	13.5	34	16	2	100
64382 HLX-A 200-15	4008321345738	J1/84	200	1500	4800	female	20	13.5	36	21	2	100
64382 HLX-C 200-15	4008321345752	J1/84	200	1500	4800	male	20	13.5	36	21	2	100



Single-ended lamps, for series operation at 6.6 Ampere

Product Name	EAN	LIF ANSI	W	t [h]	lm			d max. [mm]	LCL a [mm]	l1 max. [mm]	No.	
58750	4008321100160	EZL	200	1300	5200	GY(GZ)9.5	any	13	39.1	65	3	12
64311 at 6.0A	4008321106346	EYM	36	1500	600	G6.35	s90	11.5	23	47	1	40
64320	4008321100122	EXM	45	1500	900	GZ9.5	s90	11.5	25.4	44.5	3	12
64321	4008321106360	J1/57	45	1500	900	G6.35	s90	11.5	33	47	1	40
64322	4008321100146	EXL	30	1500	430	GZ 9.5	s90	11.5	25.4	44.5	3	12
64346	4008321106384	J1/58	100	1200	2300	G6.35	s90	13.5	33	47	2	40
64350	4052899605442	EVV	110	1000	2700	GZ(GY)9.5	any	13.5	39.1	63.5	3	100
64354	4008321100207	EWR	150	1500	3700	GZ(GY)9.5	s90	13.5	39.1	65	3	12
64386	4008321106407	J1/39	200	1500	4700	G6.35	s90	13.5	33	47	2	40

Standardised nomenclature

Thanks to the OSRAM standard order codes, wattage, life time and type of connector are easy to identify.

1. Reference	2. Product feature	3. Connector	4. Wattage	5. Lifetime
64331	FL (Flood)	A	30	10 = 1000h
64333	SP (Spot)	B	40	15 = 1500h
64337	IRC (IR-coated)	C	45	20 = 2000h
64338	HLX (Xenon gas inside)	AC	48	30 = 3000h

For example:
64337 IRC-C 48-30 (64377 IRC lamp with connector C, male flat, 48 W, 3000 h average life)

Overview Connectors PK30d and with reflector

Connector A, female
Complies with DIN 46247

Connector B, female round
For contacts Ø 4 mm

Connector C, male flat
Complies with DIN 46248

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