

Photo lamps

Set lights for B/W and colour photography

Special features:

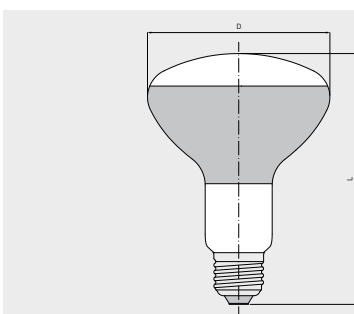
- correspond to Philips Argaphoto lamps
- high-quality materials
- light colour: 3200 K
- matt on the inside
- mirrored on the inside ('R' in the description)

Specific benefits:

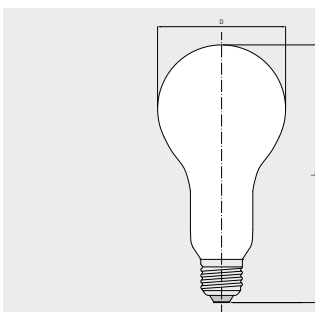
- conventional devices can still be used
- the specification of the lamps corresponds to the specification of these devices
- the light colour corresponds to the specification of these devices

Areas of use:

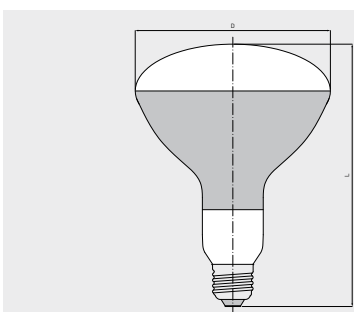
- dark room/set lights for B/W and colour photography



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Luminous flux lm	Average life h	Colour tempera- ture K	Burning position	PU
77841423	220V 150W E27/27 R.95x131	220	150		E27	96	135			100	3,200	any	



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Luminous flux lm	Average life h	Colour temperature K	Burning position	PU
77841407	220V 500W E27 A.80x165	220	500		E27	81	165		11,000	100	3,200	any	
77841409	240V 500W E27 A.80x165	240	500		E27	81	165		11,000	100	3,200	any	



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Luminous flux lm	Average life h	Colour temperature K	Burning position	PU
77841410	220V 500W E27 R125x168	220	500		E27	126.5	171			100	3,200	any	
77841411	240V 500W E27 R125x168	240	500		E27	126.5	171			100	3,200	any	

Photo lamps

Set lights for B/W and colour photography and video

Special features:

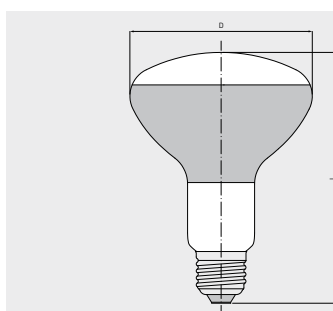
- correspond to Philips Photolita lamps
- matt on the inside
- mirrored on the inside ('R' in the description)
- colour temperature adapted for B/W and colour films

Specific benefits:

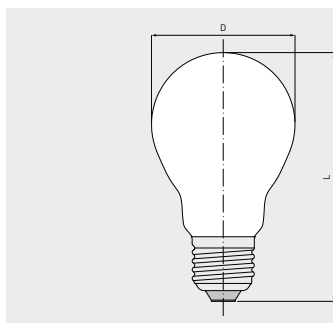
- diffuse yet uniform light distribution
- higher efficiency due to internal reflector

Areas of use:

- set lights for B/W and colour photography and video



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Colour temperature K	Burning position	PU
77841420	220V 250W E27/27 R.95x131	220	250		E27	96	135			3	3,400	any	

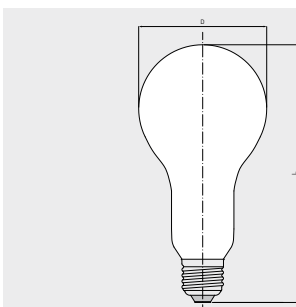


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Colour temperature K	Burning position	PU
77841401	220V 250W E27/27 A.60x104	220	250		E27	61	107		7,500	3	3,400	any	
77841402	230V 250W E27/27 A.60x104	230	250		E27	61	107		7,500	3	3,400	any	
77841404	240-250V 275W E27/27 A.60x104	240-250	275		E27	61	107		7,400	3	3,400	any	
77841405	250V 250W E27/27 A.60x104	250	250		E27	61	107		7,500	4	3,400	any	

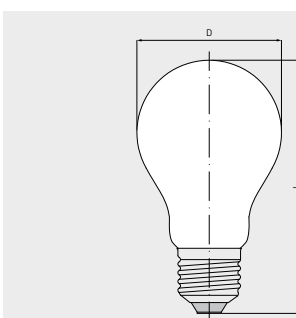
Photo lamps

Set lights for B/W and colour photography and video

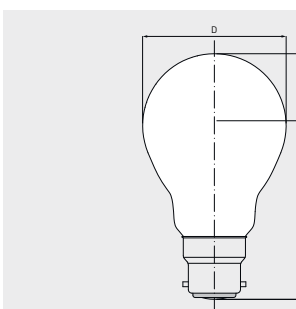
For special features, specific benefits and areas of use see page 143



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Colour temperature K	Burning position	PU
77841413	240V 500W B22d A.80x159.5	240	530		B22d	81	163.5		14,400	6	3,400	any	
77841414	220V 500W E27 A.80x166	220	530		E27	81	165		14,400	6	3,400	any	
77841408	240V 500W E27 A.80x166	240	500		E27	81	165		14,400	6	3,400	any	



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Colour temperature K	Burning position	PU
00845275	230V 250W E27/27 60x105 blue	230	250		E27	61	105		3,400	25	ca. 4,000		



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Colour temperature K	Burning position	PU
77841403	240-250V 275W B22d A.60x102.5	240-250	275		B22d	61	105.5		7,400	4	3,400	any	

Photo lamps

Darkroom lamps (B/W photography)

Special features:

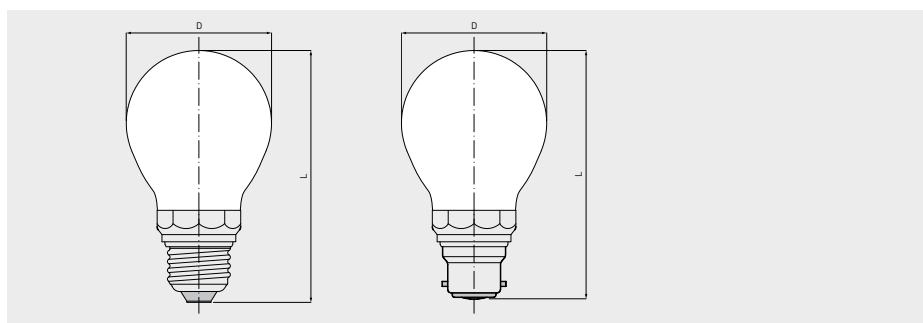
- correspond to Philips dark room lamps
- high-quality materials
- cadmium-free internal coating
- yellow-green: max. 6 minutes at 1 metre (100 ASA and above under 6 minutes)
- red: max. 0.5 - 6 minutes at 1 metre (depending on the film/developing fluid combination)
- cap between socket and bulb

Specific benefits:

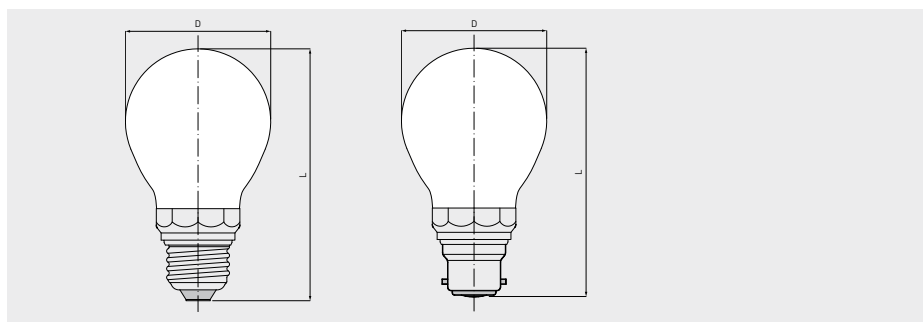
- no unwanted wavelengths
- no light emanation between socket and bulb

Areas of use:

- dark room lamp for B/W photography
Yellow-green: photo emulsions on bromide and chlorine basis respectively and changeable contrast paper
red: orthochromatic emulsions and changeable contrast paper



Article no.	Description	V	W	Amperage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Luminous flux lm	Average life h	Burning position	PU
77841421	230V 15W E27 A.60x104 Yellow/green dark	230	15		E27	61	107		8	1,000	any	
77841424	230V 15W B22d A.60x104 Yellow/green dark room	230	15		B22d	61	105.5		8	1,000	any	



Article no.	Description	V	W	Amperage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Luminous flux lm	Average life h	Burning position	PU
77841422	230V 15W E27 A.60x104 red dark room	230	15		E27	61	107		7	1,000	any	
77841425	230V 15W B22d A.60x104 red dark room	230	15		B22d	61	105.5		7	1,000	any	

Photo lamps

Enlarger lamps (B/W photography)

Special features:

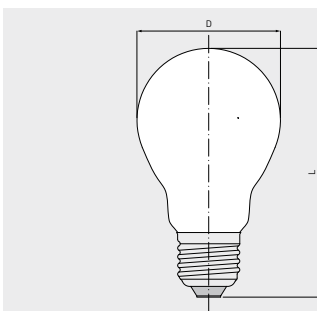
- corresponds to Philips Photocrescenta
- high-quality materials
- white internal coating

Specific benefits:

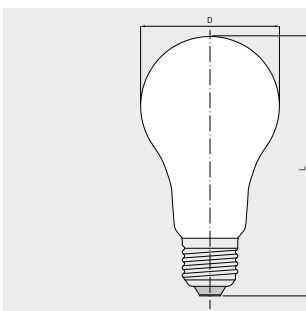
- conventional devices can still be used
- the specification of the lamps corresponds to the specification of these devices
- very even light emission
- high light yield

Areas of use:

- enlarger lamp for B/W photography



Article no.	Description	V	W	Am-perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Luminous flux lm	Average life h	Colour temperature K	Burning position	PU
77841412	230V 75W E27/27 A.60x104 coated	230	75		E27	61	107		1,100	100	2,800	any	
77841417	230V 100W E27/27 A.60x104 coated	230	100		E27	61	107		1,540	100	2,800	any	



Article no.	Description	V	W	Am-perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Luminous flux lm	Average life h	Colour temperature K	Burning position	PU
77841406	230V 150W E27/27 A.65x119 coated	230	150		E27	66	123		2,500	100	2,800	any	
77841419	230V 250W E27/27 A.65x119 coated	230	250		E27	66	123		6,500	3	3,000	any	

Domestic lamps

There are a lot of "hidden" lamps in an average household. Lamps whose existence is only really noticed when they stop working. These are the small lamps that are so easy to forget: the lamps in the oven, in the fridge, in microwaves or cooker hoods.

They have no decorative function, are installed mainly in hidden positions and usually only provide light. But it is precisely these lamps that must

fulfil very special demands: extreme temperatures, shocks, vibrations etc. are a real endurance test. And since the lamps must not be too conspicuous they are usually positioned in inaccessible places in the appliances. For this reason it is often difficult to change them. So domestic lamps must not only work economically but also very stable and durable.

DR FISCHER domestic lamps have been special-

ly developed for heavy household demands. Our factory in Alpignano focuses on domestic lamps and has been manufacturing them successfully for many years.

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Domestic Oven lamps

Special features:

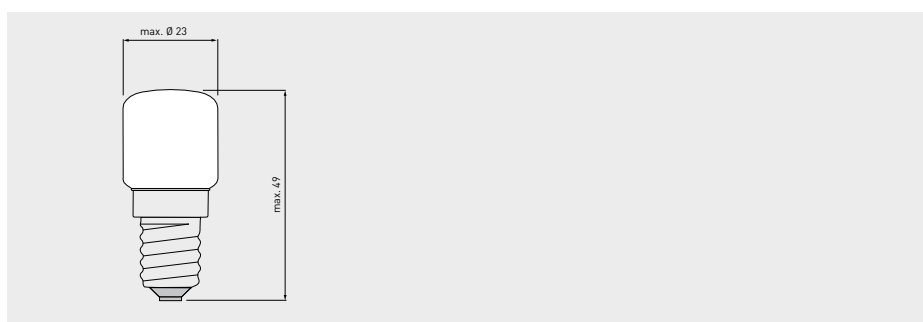
- vacuum or gas-filled incandescent lamps with a clear bulb or an internal glazed/iced finish, only A6 bulbs
- manufactured with special, heat-resistant solder
- available in tubular (Ø 22.25 and 29 mm), spherical (Ø 45 mm) and all A60 versions with wound filament

Specific benefits:

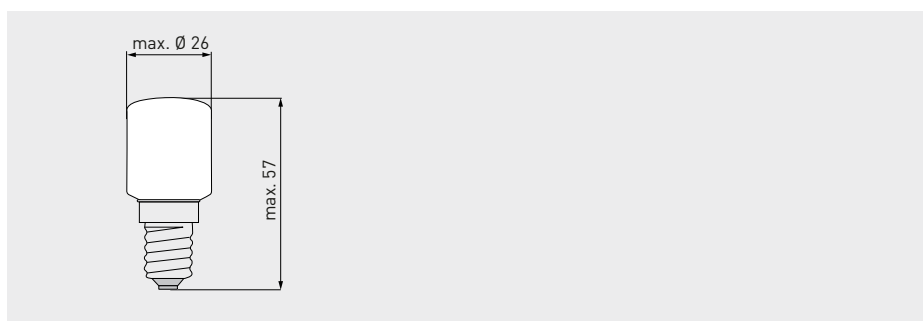
- high temperature resistance
- specific oven illumination available in 15, 25 and 40 watts

Areas of use:

- high-temperature areas
- domestic and electric ovens
- grills



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
4196235600	T22 15W 125-130V E14 CL OVEN	125-130	15		E14	23	49		90	1,000		n.a.	
4196244400	T22 15W 230-240V E14 CL OVEN	230-240	15		E14	23	49		90	1,000		n.a.	
4196245700	T22 15W 240-250V E14 CL OVEN	240-250	15		E14	23	49		90	1,000		n.a.	

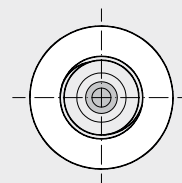
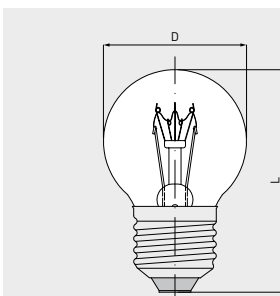


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
4198235600	T25 25W 125-130V E14 CL OVEN	125-130	25		E14	26	57		172	1,000		n.a.	
4198244400	T25 25W 230-240V E14 CL OVEN	230-240	25		E14	26	57		172	1,000		n.a.	
4198245700	T25 25W 240-250V E14 CL OVEN	240-250	25		E14	26	57		172	1,000		n.a.	

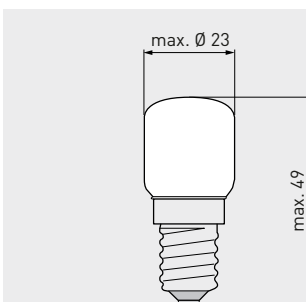
Domestic

Oven lamps

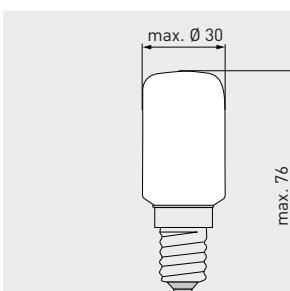
For special features, specific benefits and areas of use see page 151



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00845304	230V 40W E27 300°C OVEN	230	40		E27	45	70	Centre Bulb	370	1,000			



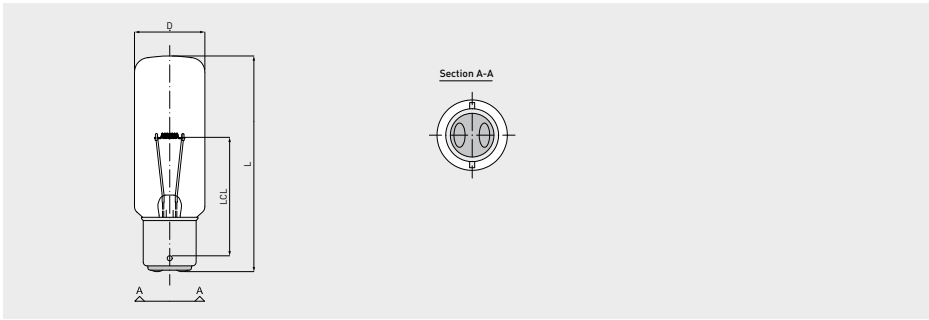
Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
4198544200	T22 10W 230V E14 CL	230	10		E14	23	49		35	1,000		n.a.	



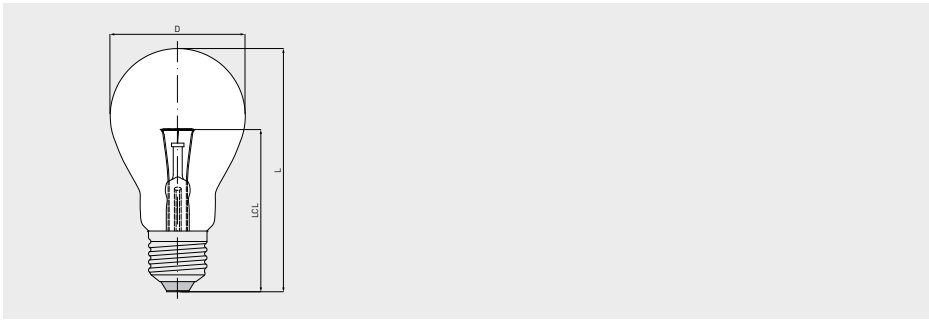
Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
4103044400	T29 40W 230-240V E14 CL OVEN	230-240	40		E14	30	76		400	1,000		n.a.	

Domestic
Oven lamps

For special features, specific benefits and areas of use see page 151



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00845303	24V 60W B22d/22 300°C OVEN	24	60		B22d/22	30	90	49	750	500			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00845312	24V 60W E27 300°C OVEN	24	60		E27	60	108	75	1,000	500			



Signal lamps

Medical lamps

Photo, studio and stage lamps

Oven lamps

Other special lamps

Domestic

For refrigerators and freezers

Special features:

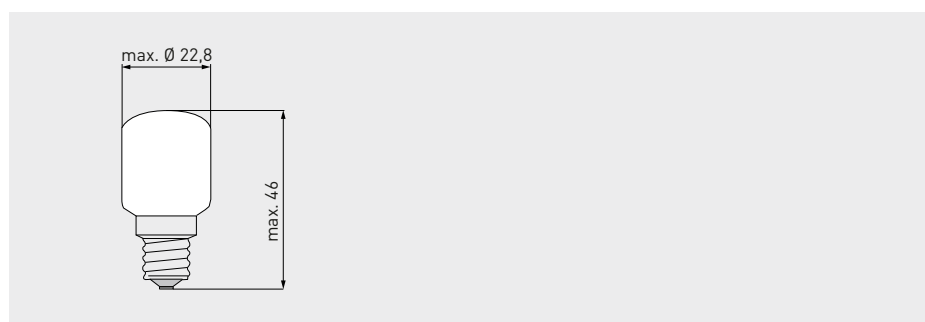
- suitable for refrigerators and general lighting
- high luminous power
- universal burning position

Specific benefits:

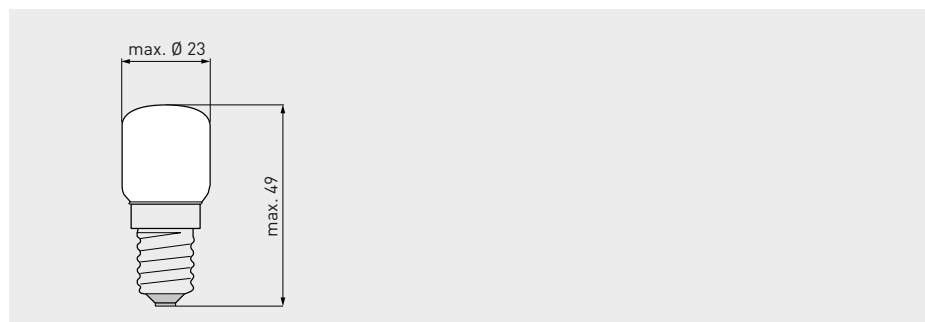
- bright light quality, making it especially suitable for refrigerators

Areas of use:

- refrigerators
- freezers



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
4109635600	T22 10 W 120 V E12	120	10		E12	23	46		61	1,000		n.a.	

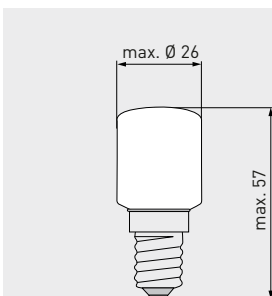


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
4109944400	T22 12 W 230-240 V E14 CL REFR	230-240	12		E14	23	49		70	1,000		n.a.	

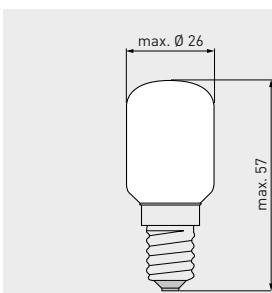
Domestic

For refrigerators and freezers

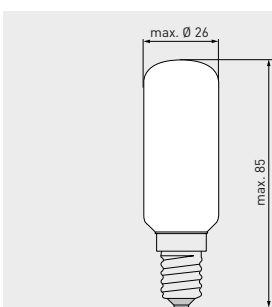
For special features, specific benefits and areas of use see page 155



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous flux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
4100844400	T25 10W 230-240V E14 CL	230-240	10		E14	26	57		35	1,000		n.a.	
4197444400	T25 12W 230-240V E14	230-240	12		E14	26	57		70	1,000		n.a.	
4107435600	T25 12W 125-130V E14	125-130	12		E14	26	57		70	1,000		n.a.	
4197735600	T25 15W 125-130V E14 CL REFR	125-130	15		E14	26	57		110	1,000		n.a.	
4197744400	T25 15W 230-240V E14 CL REFR	230-240	15		E14	26	57		110	1,000		n.a.	
4107744400	T25 15W 230-240V E14 CL REFR	230-240	15		E14	26	57		110	1,000		n.a.	
4199735600	T25 25W 125-130V E14 CL REFR	125-130	25		E14	26	57		172	1,000		n.a.	
4199744400	T25 25W 230-240V E14 CL REFR	230-240	25		E14	26	57		172	1,000		n.a.	



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous flux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
41 07144400	T25 25W 230-240V E14 DB REFR	230-240	25		E14	26	57		146	1,000		n.a.	
4107244400	T25 15W 230-240V E14 DB REFR	230-240	15		E14	26	57		94	1,000		n.a.	

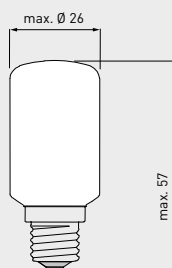


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous flux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
4105135600	T25L 25W H.E. 125-130V E14 CL	125-130	25		E14	26	100		255	1,000		n.a.	
4105144400	T25L 25W H.E. 230-240V E14 CL	230-240	25		E14	26	100		217	1,000		n.a.	

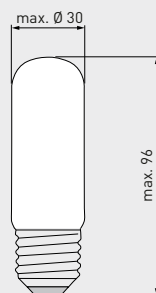
Domestic

For refrigerators and freezers

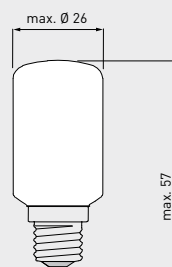
For special features, specific benefits and areas of use see page 155



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
4105435600	T25L 40W 125-130V E14 DA.	125-130	40		E14	26	100		225	1,000		n.a.	
4105444400	T25L 40W E14 230-240V DA	230-240	40		E14	26	100		210	1,000		n.a.	
4105535600	T25L 25W 125-130V E14 DA	125-130	25		E14	26	100		127	1,000		n.a.	
4105544400	T25L 25W 230-240V E14 DA.	230-240	25		E14	26	100		108	1,000		n.a.	



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
4190444200	T29L 40W 230V E27 CL	230	40		E27	30	96		280	1,000		n.a.	
4190435600	T29L 40W 125-130V E27 CL	125-130	40		E27	30	96		280	1,000		n.a.	



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
4108144400	T25 25W 230/240V E14 FR	230-240	25		E14	26	57		172	1,000		n.a.	

Lamps for microwaves

Because of the high transmitting power of the magnetrons, currents of more than 20 amps can flow in metal parts in the oven chamber. Thin metal layers such as aluminium foil and dishes with metal decorations can therefore melt in a microwave oven.

But the filament in a lamp is there precisely to become hot. And the lamp glass is also designed to withstand heat well.

So lamps for microwaves do not have to withstand any serious burdens. They must above all be small and light intensive.



Domestic
For microwaves

Special features:

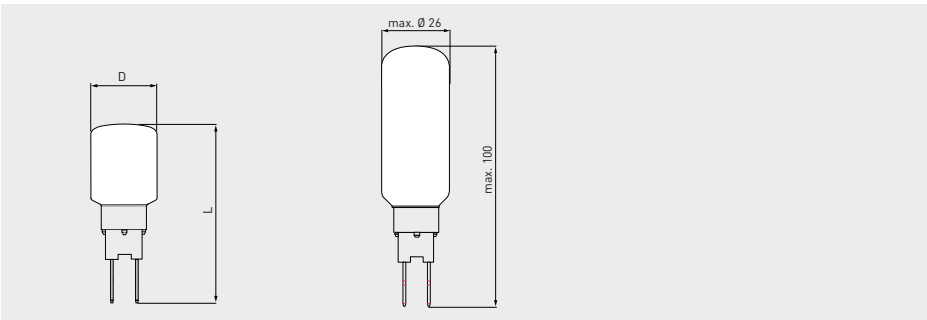
- tube-shaped vacuum incandescent lamps with strengthened single / double-filament filament and a clear bulb
- T-CLICK design
- universal burning position

Specific benefits:

- easy to assemble
- vibration-resistant due to strengthened filament

Areas of use:

- microwave appliances



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous flux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
4101144419	T25 15W 230-240V	230-240	15		T-CL	26	70.5	110	1,000				200
4101244412	T25 25W 230-240V	230-240	25		T-CL	26	70.5	172	1,000				200
4101944419	T25 40W 230-240V	230-240	40		T-CL	26	100	420	1,000				150

T25 lamps can also be produced with these special sockets:



Lamps for cooker hoods

These lamps have to withstand strong vibrations. In addition to steam and heat it is the heaviest burden lamps for cooker hoods have to withstand. Lamps that are used in traffic are subjected to stronger vibrations.

But the constant vibration of the cooker hood that the lamps have to withstand is a real chal-

lenge. And being able to provide the highest quality products so consistently does make us a little pride.



Domestic

For cooker hoods

Special features:

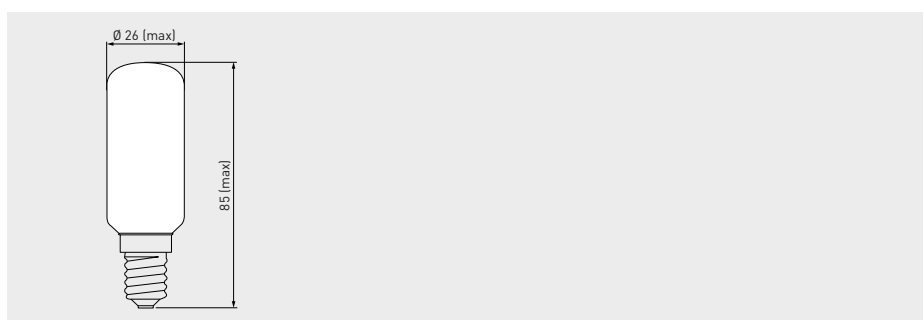
- gas-filled incandescent lamps with a clear bulb

Specific benefits:

- shock-resistant
- functional safety
- long, disturbance-free life

Areas of use:

- cooker hoods



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous flux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
4129035600	T25L 40W 125-130V E14 CL C.H.	125-130	40		E14	26	100		450	1,000		n.a.	
4129044400	T25L 40W 230-240V E14 CL C.H.	230-240	40		E14	26	100		420	1,000		n.a.	
4106035600	T25L 40W 125-130V E12 CL C.H.	125-130	40		E12	26	100		420	1,000		n.a.	

Hidden light

There are many lamps that you only notice when they no longer work. Sewing machine lamps are an example. They are there, inconspicuously illuminating what they are supposed to. They are not essential and it is really not the job of a sewing machine to provide light. But when such a little

lamp does go out it becomes clear how important it really is.

It is similar with the small lamps in piano and reading lights. They do not impose themselves but illuminate discreetly wherever they are needed.



Domestic

For other household equipment

Special features:

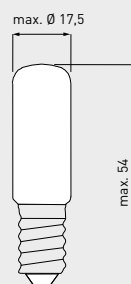
- vacuum or gas-filled incandescent lamps with a clear bulb or an internal glazed/iced finish,
- high luminous power

Specific benefits:

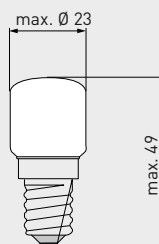
- easy to assemble
- long, disturbance-free life
- shock-resistant

Areas of use:

- other household appliances
- sewing machines
- piano lighting



Article no.	Description	V	W	Am- perage	Socket	Bulb dia- meter max. mm	Total length max. mm	Light centre length mm	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
4151144400	T17 7W E14 230-240V CL	230-240	7		E14	17.5	54		21	1,000		n.a.	
4151445700	T17 10W E14 240-250V CL	240-250	10		E14	17.5	54		37	1,000		n.a.	
4152844400	T17 15W 230-240V E14 CL	230-240	15		E14	17.5	54		97	1,000		n.a.	
4153244200	T17 15W 230V B15d CL	230	15		BA15d	17.5	54		74	1,000		n.a.	

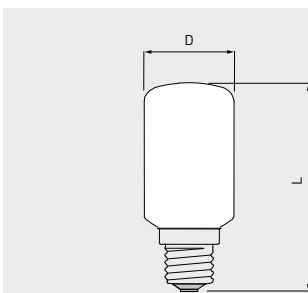


Article no.	Description	Voltage	W	Am- perage	Socket	Bulb dia- meter max. mm	Total length max. mm	Light centre length mm	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
4195444400	T22 20W 230-240V E14 CL SM	230-240	20		E14	23	49		120	1,000		n.a.	

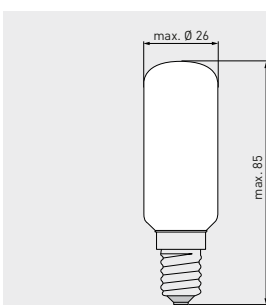
Domestic

For other household equipment

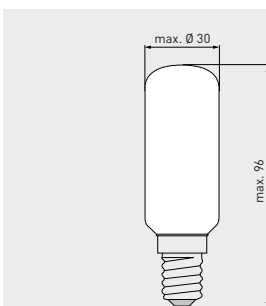
For special features, specific benefits and areas of use see page 163



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
4196444400	T25 15W 230/240V E14 FR	230-240	15		E14	26	57		110	1,000		n.a.	
4196944400	T25 25W 230/240V E14 FR	230-240	25		E14	26	57		172	1,000		n.a.	
4198944200	T25 15W 230V B15d CL	230	15		BA15d	26	52		103	1,000		n.a.	
4199144200	T25 25W 230V B15d CL	230	25		BA15d	26	52		160	1,000		n.a.	



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous flux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
4128044400	T25L 40W 230-240V E14 CL	230-240	40		E14	26	85		217	1,000		n.a.	
4127244400	T25L 25W 230-240V E14 CL	230-240	25		E14	26	85		420	1,000		n.a.	

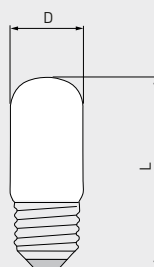


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous flux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
4184944200	T29 25W 230V E14 CL	230	25		E14	30	96		200	1,000		n.a.	
4190544400	T29 40W 230V E14 CL	230	40		E14	30	96		385	1,000		n.a.	
4130143400	T29L 60W 230V E14 CL	230	60		E14	30	96		680	1,000		n.a.	

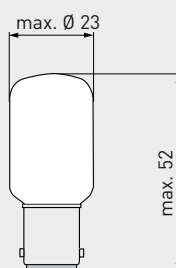
Domestic

For other household equipment

For special features, specific benefits and areas of use see page 163



Article no.	Description	Voltage	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous flux lm	Average life h	Individual life h [<2% malfunction]	Burning position	PU
1526545500	T29M 15W 240V E27 CL	240	15		E27	30	61		78	1,000		n.a.	
4350541700	T29M 7.5W 210-240V E27 WH	210-240	7.5		E27	30	73		16	5,000		n.a.	
4350641700	T29M 7.5W 210-240V E14 WH	210-240	7.5		E14	30	76		21	5,000		n.a.	



sewing machines

Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous flux lm	Average life h	Individual life h [<2% malfunction]	Burning position	PU
1131844400	T22X51 15W 230-240V B15d CL SM	230-240	15		BA15d	23	52		82	1,000		n.a.	
1132044420	T22X51 25W 230-240V B15d CL SM	230-240	25		BA15d	23	52		120	1,000		n.a.	





Bringing light to darkness

Special lamps are used in the most varied of places and for the most varied of purposes. They are sometimes also very special lamps that must fulfil very precise conditions. This could be a necessity for very strong luminous power that as discharge lamps fulfil. Or the necessity of marking escape routes permanently and reliably. But maybe it is the case that goods of all kinds

must be given the right light. Whether it is fashion articles where the right colour reproduction is crucial or food that must not be heated but must still look good.

The companies of the DR FISCHER Group develop and manufacture lamp solutions that fulfil all these purposes.

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Gas discharge lamps

Halogen metal vapour lamps have a high colour reproduction index and a high light yield (up to 117 lm/W with good colour reproduction, up to 110 lm/W with very good colour reproduction). Halogen metal vapour lamps are extremely efficient and convert more than 30% of the total input power into light. A further advantage is their

very long life. Our halogen metal vapour lamps are used to provide daylight-standard lighting with beam lights when long duty cycles, high luminous power and the smallest possible build-up of heat are required. More and more halogen metal vapour lamps are being used to light architecture, halls and stadiums and also for street lights.

Lighting for film shoots is another area where halogen metal vapour lamps are used.

Rescue services often use lights with halogen metal vapour lamps that have a compact construction and a high level of brightness.



Gas discharge lamps

Halogen metal vapour lamps

Special features:

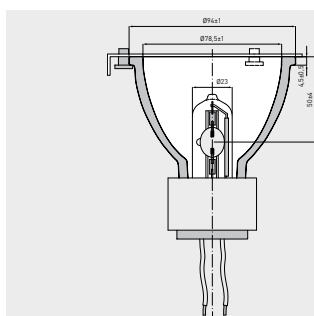
- only operates with ballasts
- spotlights for tanning purposes may only be used in appliances that are intended for them
- halogen metal vapour lamps for fibre optics systems

Specific benefits:

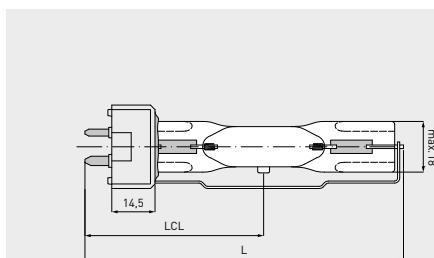
- high radiancy in special spectral ranges
- materials used are highly temperature-resistant
- lamps easy to change without the necessity for readjustment

Areas of use:

- inside lighting
- spas and swimming pools
- solarium/tanning

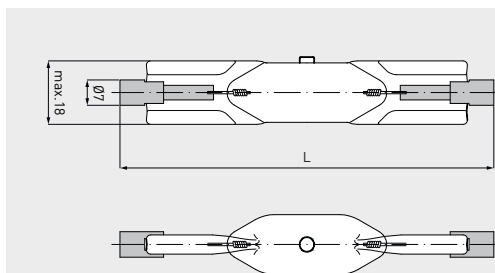


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00848703	light module 150W 3000K	230*	150		Special		110±7		14,000	10,000		horizontal	



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00848213	300/500W SE Gy 9.5	230*	300/500	3.08	GY9.5	18	110	ca. 60		500			

* operates with ballast



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length mm	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00848214	400W DE R7s	230*	400	3.08	GY9.5	18	106			500			

When brightness is required

One important product group is projection lamps.

These lamps, for projectors, measuring devices, microscopes, optical devices and other special applications have a high luminous flux and high light density.

On account of the heavy burdens and because

the most important aspects of these lamps are the high luminous flux and high light density the life of these lamps is limited.

So that the lamps perform at maximum capacity during their lives, they are manufactured with high precision and above all adapted exactly to the purpose they are intended for.



Projection and beam lamps

For optics and optoelectronics

Special features:

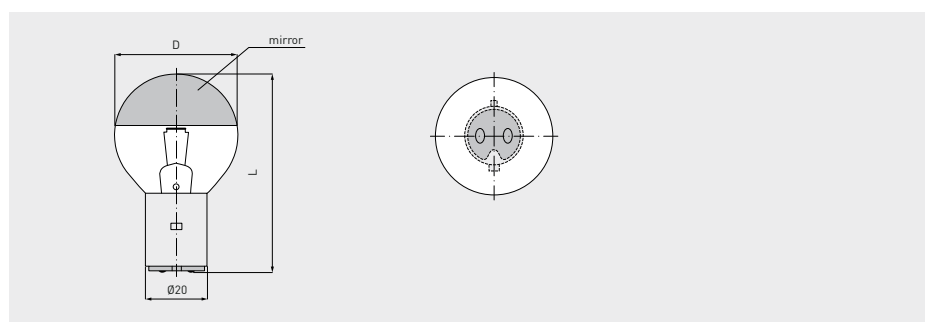
- precision of manufacture
- minimal tolerances in the positioning of the filaments
- can be adapted exactly to the intended purpose of use

Specific benefits:

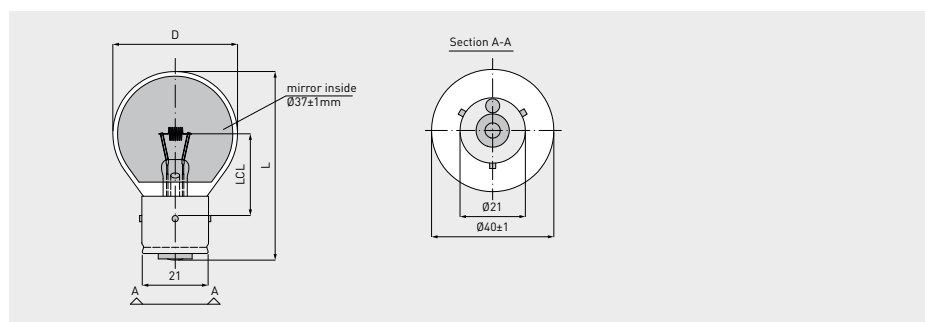
- high light yield
- corrosion-proof nickel-plated socket

Areas of use:

- projectors
- talking film
- measuring devices
- microscopes
- light barriers
- special applications



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length mm	Luminous flux lm	Average life h	Individual life h	Burning position	PU
00833317	12V 30W BA20d	12	30		BA20d	41	65		400	600			

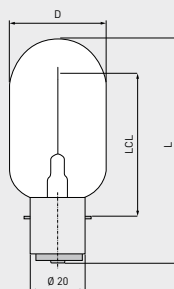


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Luminous flux lm	Average life h	Individual life h	Burning position	PU
00833407	12V 70W Ba21s3 SM	12	70		Ba21s3	41	61	26.2	1,200	25			

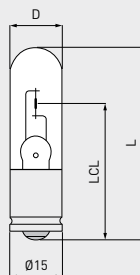
Projection and beam lamps

For optics and optoelectronics

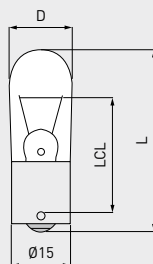
For special features, specific benefits and areas of use see page 171



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumino- us f ux lm	Average life h	Individual life h	Burning position	PU
00843423	6V 30W BA20d without cable	6	30		BA20d	35	86	51	400	400			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Luminous f ux lm	Average life h	Individual life h	Burning position	PU
00843004	4V 0.75A SX15s	4	3	0.75	SX15s/19	16	55	39.5	17	1,500			

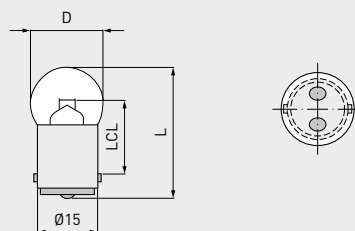


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Luminous f ux lm	Average life h	Individual life h	Burning position	PU
00843007	6V 5W BA15s 1500h	6	5		BA15s/19	16	46	29.5	40	1,500			

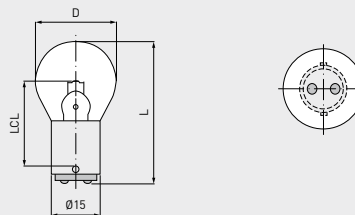
Projection and beam lamps

For optics and optoelectronics

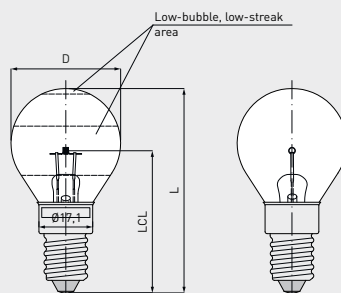
For special features, specific benefits and areas of use see page 171



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Luminous flux lm	Average life h	Individual life h	Burning position	PU
00843010	6V 5W BA15d/19	6	5		Ba15d/19	18	35	18	30	1,500			
00843012	6V 5W BA15d	6	5		BA15d	25	45	30.5	40	800			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Luminous flux lm	Average life h	Individual life h	Burning position	PU
00843011	6V 5W BA15d	6	5		BA15d	25	45	26.8	35	5,000			



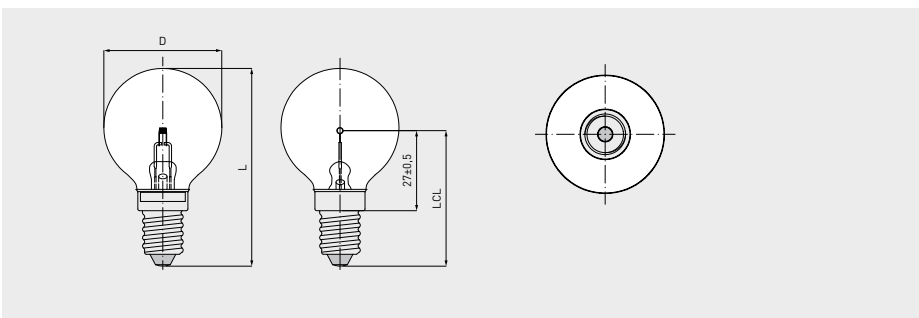
Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
00843364	6V 4.35A E14 nickel-plated	6		4.35	E14	35	65	8*	480	100			
00843016	6V 5A E14	6		5	E14	35	65	45	385	600			

* distance between filament and bulb dome

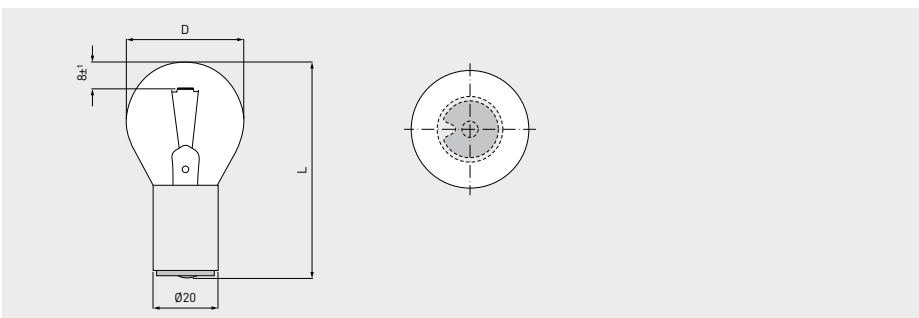
Projection and beam lamps

For optics and optoelectronics

For special features, specific benefits and areas of use see page 171

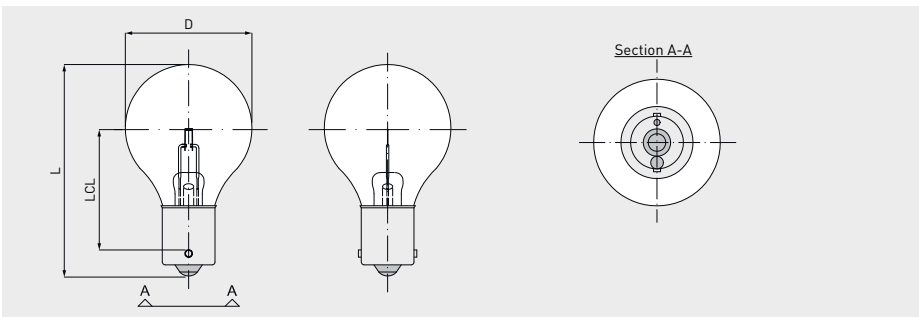


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
00843018	6V 30W E14/25x17 40x67 clear	6	30		E14	41	67	46.5	420	800			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
00843029	6V 30W BA20d 35x67 clear	6	30		Ba20d/26	35	67	9*	450	300		h105	
00843030	6V 30W BA20d 35x60 clear	6	30		Ba20d/23	35	60	9*	400	300		h105	
00843031	6V 30W S20s	6	30		S20s/28	35	65	8*	580	100			
00843165	12V 50W BA20d	12	50		BA20d	35	69	39.5	1,200	50			
00843057	12V 60W BA20d	12	60		BA20d	35	64.2	9*	1,200	100			

* distance between filament and bulb dome

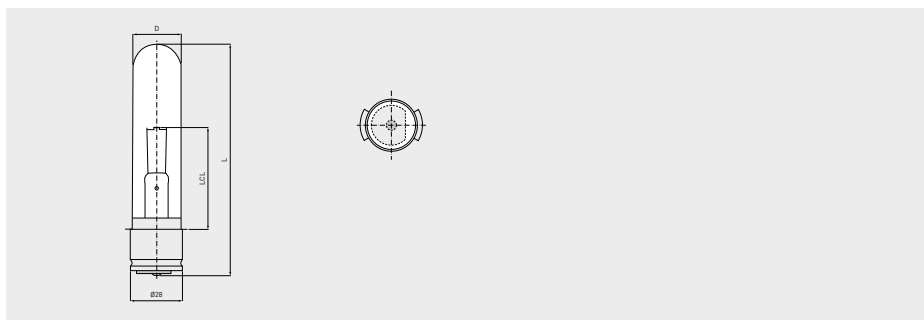


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
00843042	12V 5A Ba15s	12		5	BA15s	36	60	34.5	1,500	100			

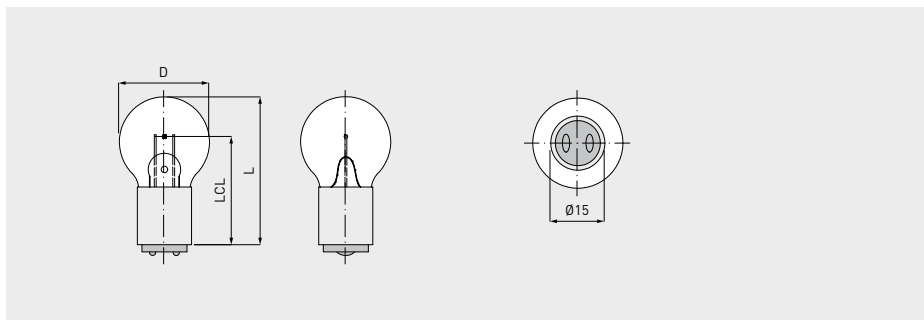
Projection and beam lamps

For optics and optoelectronics

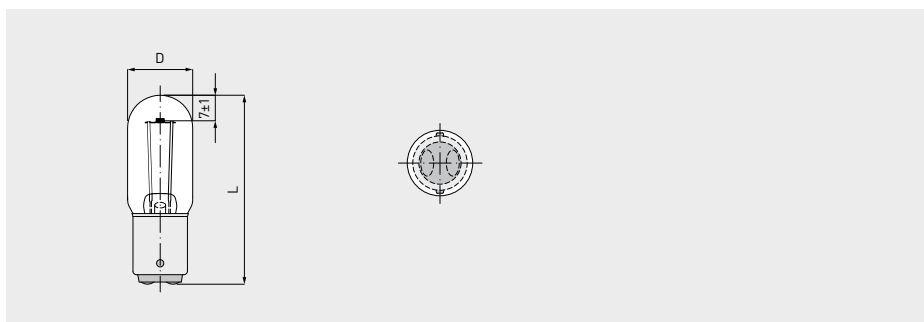
For special features, specific benefits and areas of use see page 171



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Luminous flux lm	Average life h	Individual life h	Burning position	PU
00843058	12V 100W P28s	12	100		P28s/24	26	125	56.1	2,750	100			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Luminous flux lm	Average life h	Individual life h	Burning position	PU
00843065	6V 5W S15d	6	5		S15d	26	42	31	40	1,500			



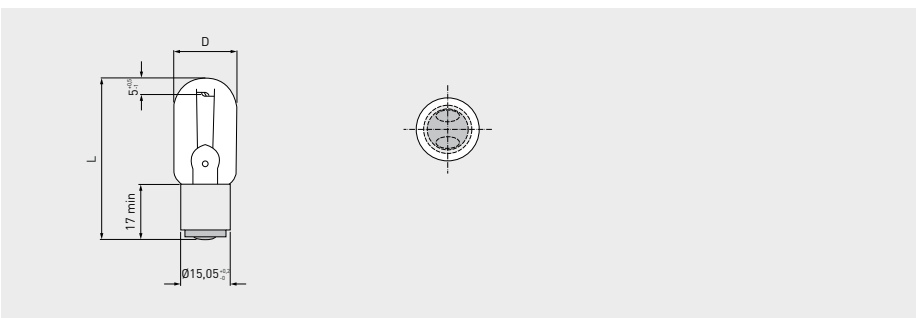
Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
00843413	6V 15W BA15d/19 18x60 clear Longlife	6	15		BA15d/19	18	57	7*	150	2,000			

* distance between filament and bulb dome

Projection and beam lamps

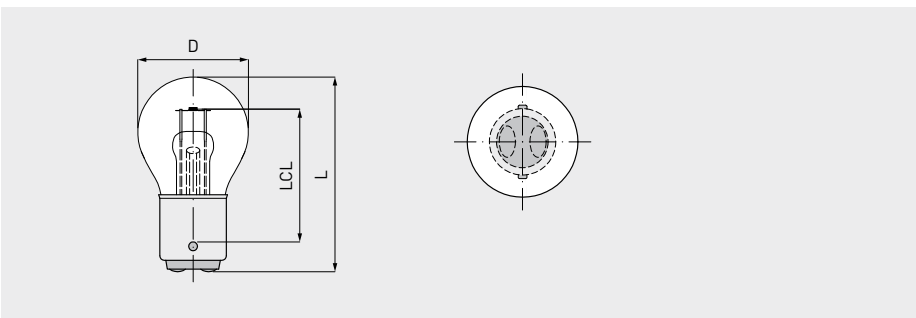
For optics and optoelectronics

For special features, specific benefits and areas of use see page 171

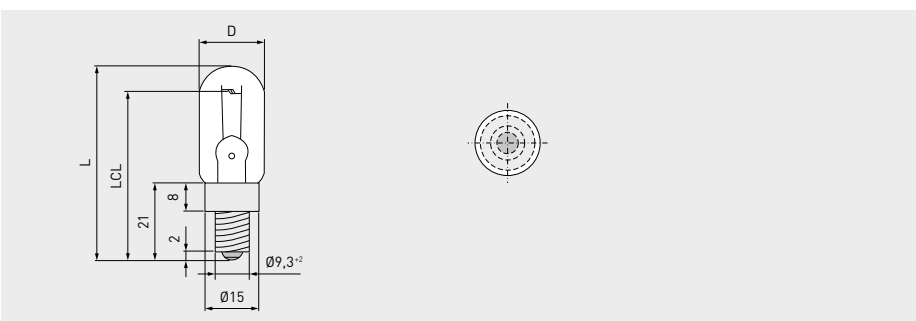


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00843084	6V 20W S15d/19 with ring flat core-filament	6	20		S15d/19	19	50	5*	200	100			

* distance between filament and bulb dome



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00843093	6V 10W BA15d	6	10		BA15d/19	25	44	30	120	200			
E0843374	6V 10W BA15s transversal	6	10		BA15s	25	44	27	90	600			
00843068	12V 10W BA15s	12	10		BA15s	25	43	22.5	110	5,000			
00843434	12V 10W BA15s/19 18x35 clear	12	10		BA15s/19	18	35	20	90	5,000			

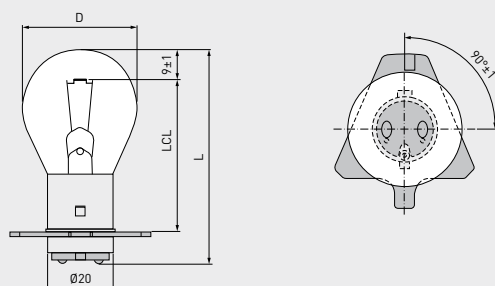


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00843103	6V 15W E10/19x13 T.18x55 clear	6	15		E10	18.5	55	48	200	500			

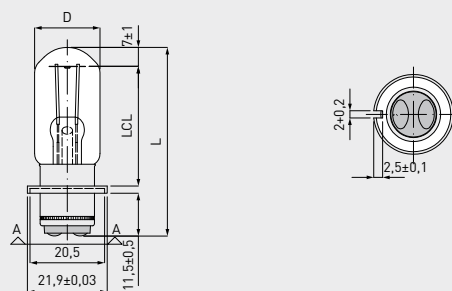
Projection and beam lamps

For optics and optoelectronics

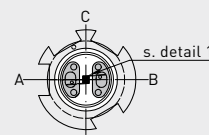
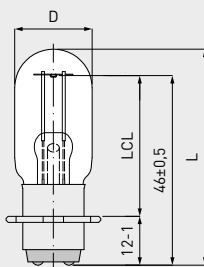
For special features, specific benefits and areas of use see page 171



Article no.	Description	V	W	Amperage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Luminous flux lm	Average life h	Individual life h	Burning position	PU
00843110	6V 30W P47d	6	30		Ba20d/26 w. ring	35	64.5	44	580	100			
00843112	6V 30W BA20S with ring P42	6	30		BA20s/26 w. ring	35	65	46.3	580	100			
00843307	6V 30W P47s	6	30		S20s/28 w. ring	35	65	49	580	100			
00843359	6V 30W Ba20s with ring P43	6	30		Ba20s/23 w. ring	35	60	44	580	100			
00843111	6V 50W P47d	6	50		Ba20d/26 w. ring	35	64.25	43.8	850	300			
00843078	12V 35W P47d	12	35		Ba20d/26 w. ring	35	67	45	560	100			



Article no.	Description	V	W	Amperage	Socket	Bulb diameter mm	Total length max. mm	Light centre length mm	Luminous flux lm	Average life h	Individual life h	Burning position	PU
00843120	6V 15W S15d with ring (P15d)	6	15		S15d/19 w.ring	18	52	33	180	100			



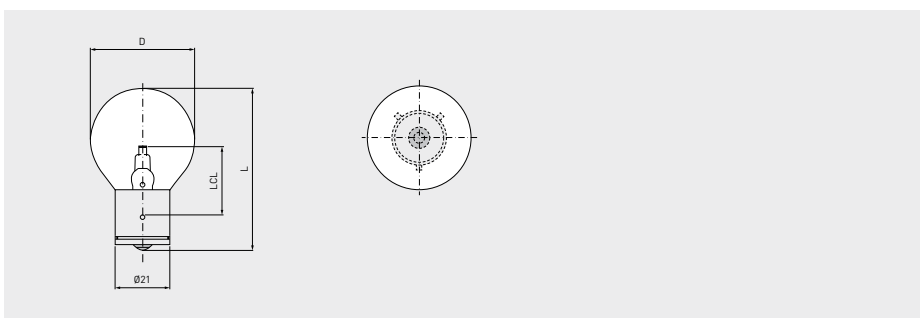
Luminary axis perpendicular to the conduit of the base contacts.

Article no.	Description	V	W	Amperage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Luminous flux lm	Average life h	Individual life h	Burning position	PU
00843121	6V 15W P24d flat-core filament	6	15	2.5	S15d/19 w.ring	19	53	34.5	180	100			
00843350	6V 15W P24d round-core filament	6	15		S15d/19 w.ring	19	53	33	140	1,000			

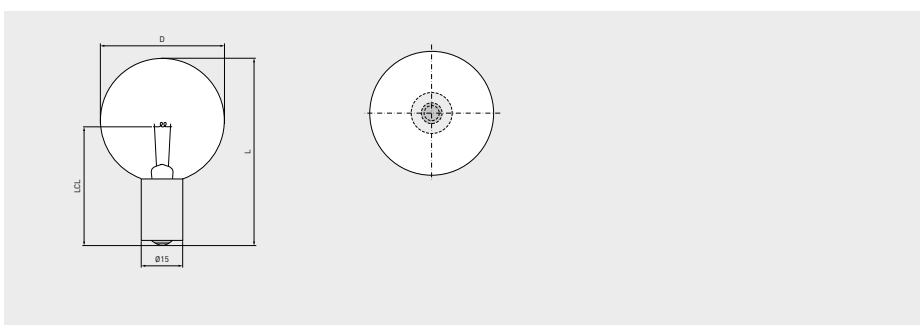
Projection and beam lamps

For optics and optoelectronics

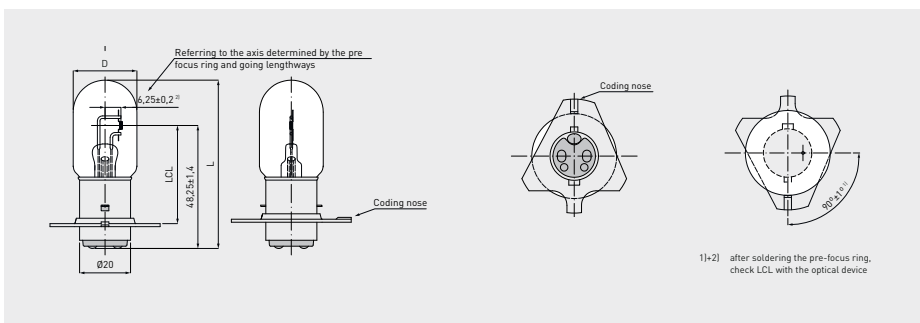
For special features, specific benefits and areas of use see page 171



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00843142	6V 5A BA21s	6	30	5	Ba21s-3	40	62	26.2	520	400			
00843432	6V 5A Ba21s-3	6	30	5	Ba21 s-3	35	57	35.5	460	300			
00843406	12V 5A BA21s-3	12	60	5	BA21s-3	40	62	26.2	1,300	100			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Luminous f ux lm	Average life h	Individual life h	Burning position	PU
00843146	12V 100W H20s	12	100		H20s	60	69	45.5	1,700	100			

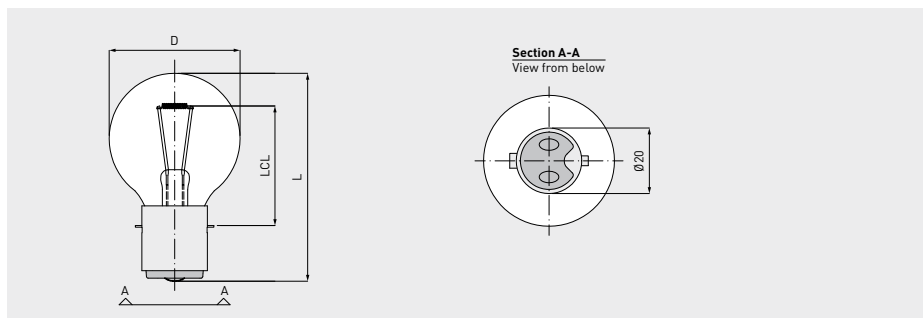


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00843222	6V 25W BA20d with ring	6	25	4.17	Ba20d/23 with ring	25	67	48.25	370	75			

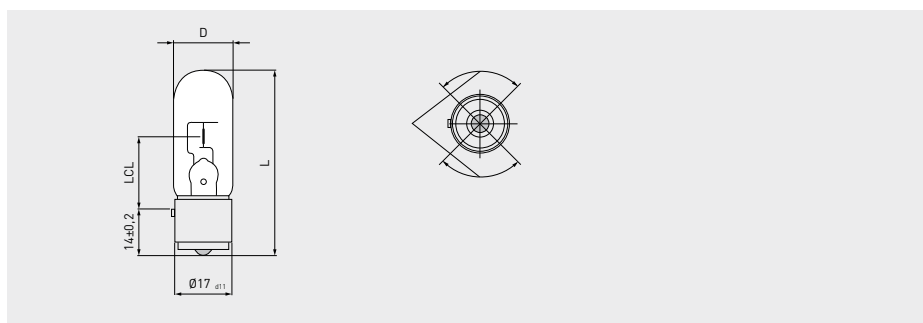
Projection and beam lamps

For optics and optoelectronics

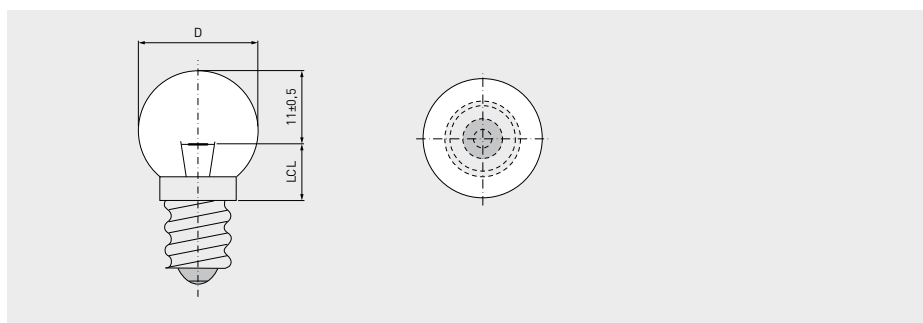
For special features, specific benefits and areas of use see page 171



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00843274	12V 60W BA20d	12	60		BA20d	40	62	36.5	800	200			
00843170	12V 100W BA20d	12	100		BA20d	50	74	47	1,900	50			
00843271	12V 5A BA20d	12		5	BA20d	40	62	36.5	800	200			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00843278	12V 25W S15s with ring	12	25		Sx15s/19 with ring	18	56.5	22	240	500			

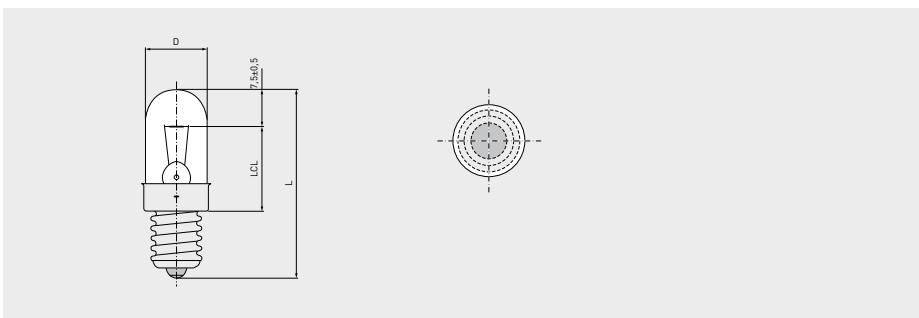


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
E0843310	25V 1A E10	25		1	E10	18		8.5	40	5,000			

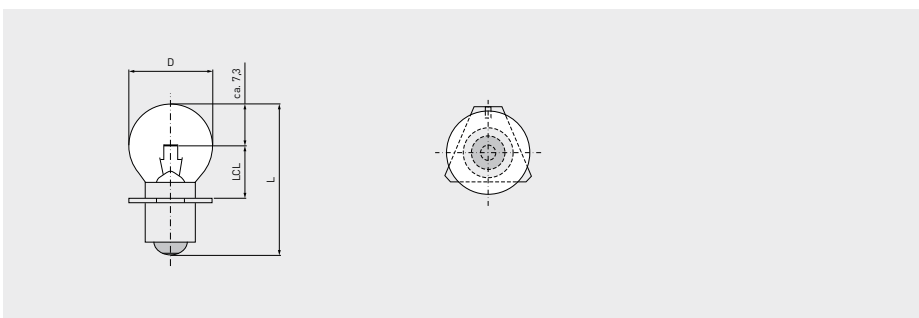
Projection and beam lamps

For optics and optoelectronics

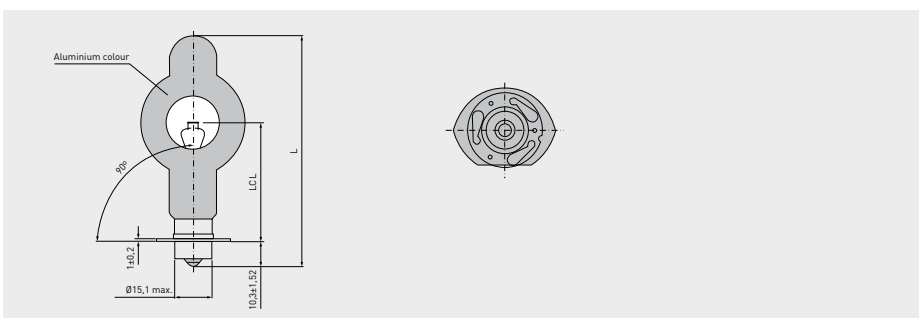
For special features, specific benefits and areas of use see page 171



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
E0843316	6.3V 5W E10	6.3	5		E10/19x13	12.5	38	17	35	800			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00843325	6V 5W PX16s	6	5		S9s/13 with ring	15.5	27	9.5					
00843337	6V 5W PX16s	6	5		S9s/13 with ring	15.5	28	11	45	100		h105	

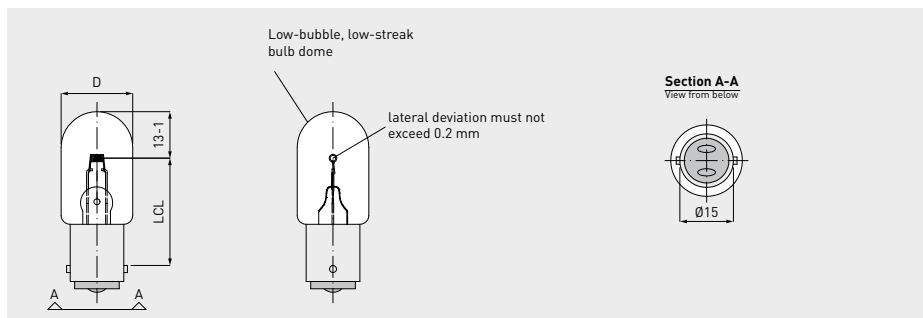


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00843365	8V 50W P30s	8	50		SX15s/19 with ring		93	48					

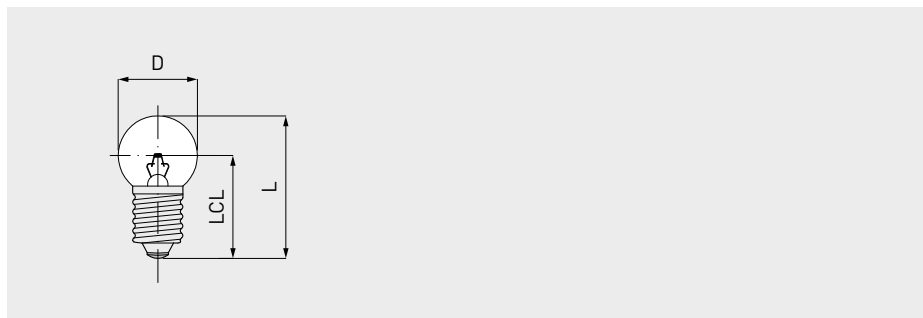
Projection and beam lamps

For optics and optoelectronics

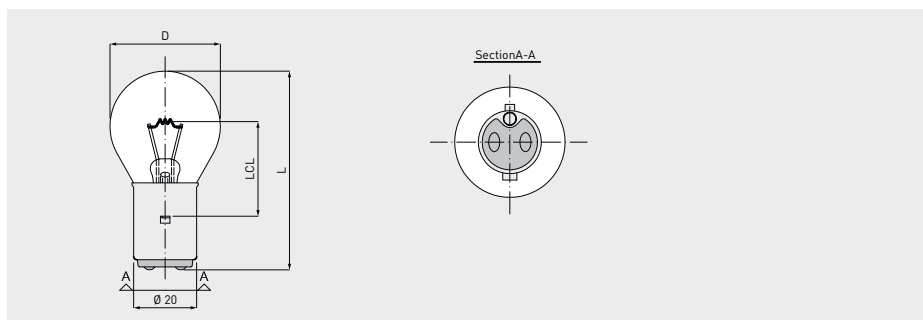
For special features, specific benefits and areas of use see page 171



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00843370	6V 6W BA15d 20mm tube	6	6		BA15d	20		30.2	65	600			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00843372	6V 6W E10 GK15 round	6	6		E10	15	27	15	25				

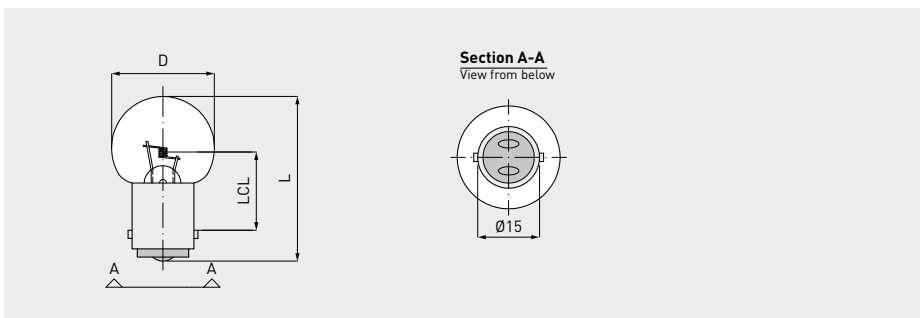


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00163500	6V 35W BA20s	6	35		BA20s	35	64	30	580	100			
00843377	15V 60W BA20d	15	60		BA20d	35	67	30	1,200	100			

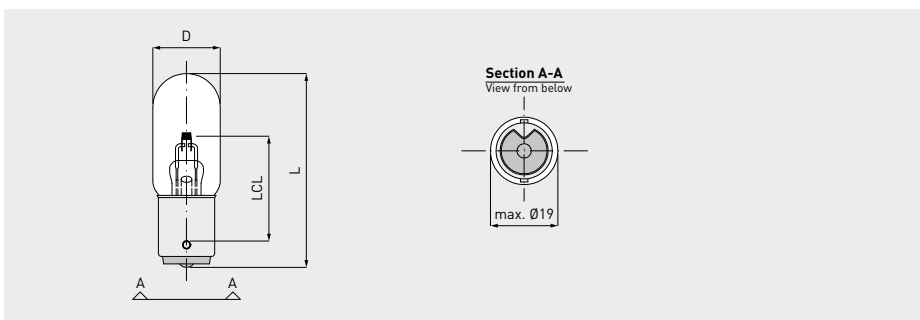
Projection and beam lamps

For optics and optoelectronics

For special features, specific benefits and areas of use see page 171

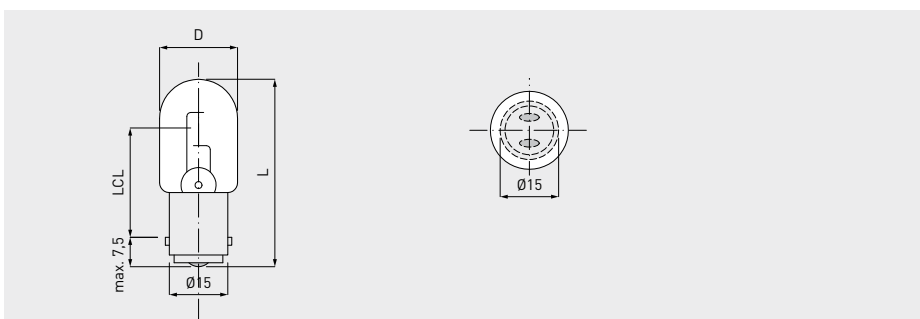


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f u x lm	Average life h	Individual life h	Burning position	PU
00843383	6V 7W BA15d/19	6	7		BA15d/19	25	40	19	70	2,000			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length LCL mm	Lumi- nous f u x lm	Average life h	Individual life h	Burning position	PU
00843079	6V 15W BA15d	6	15		BA15d/19	19	52	7*	140	1,000			
E0843341	6V 25W BA15s	6	25		BA15s	19	53	27	420	250			
00843403	6V 5A BA15s	6	30	5	Ba15s/19	19	55	28	540	50			
00843106	25V 1.0A BA15s	25		1	BA15s	19.5	50	24	450				

* distance between filament and bulb dome

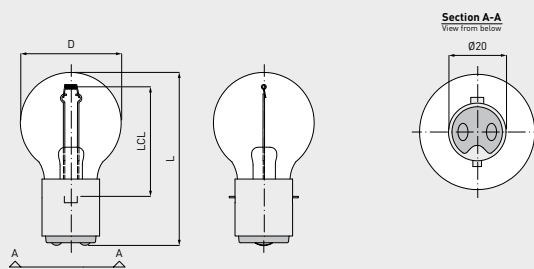


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter mm	Total length max. mm	Light centre length LCL mm	Lumi- ous f u x lm	Average life h	Individual life h	Burning position	PU
00843410	12V 15W BA15d	12	15		Ba15d/19	20	48	28	160	2,000			
00843416	12V 15W BA15d	12	15		BA15d	16	48	28	160	2,000			

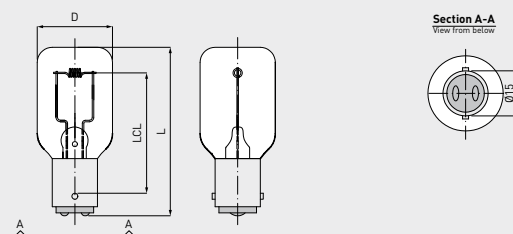
Projection and beam lamps

For optics and optoelectronics

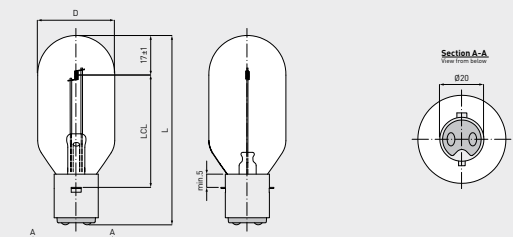
For special features, specific benefits and areas of use see page 171



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
00843418	6V 25W BA20d	6	25		BA20d	35	60	38	430	250			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
00843422	12V 30W Ba15d/19	12	30		BA15d/19	25	56	40	400	1,500			

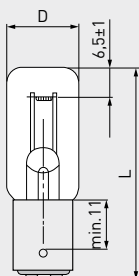


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
00843171	12V 50W BA20d	12	50		BA20d	35	86	51	400	400			

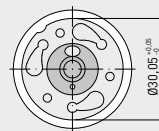
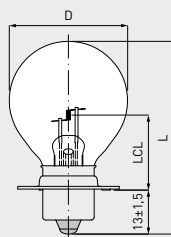
Projection and beam lamps

For optics and optoelectronics

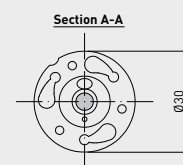
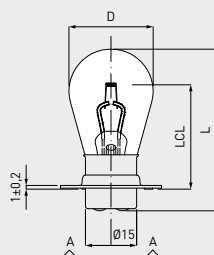
For special features, specific benefits and areas of use see page 171



Article no.	Description	V	W	Am-perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Luminous flux lm	Average life h	Individual life h	Burning position	PU
00843424	6V 30W BA15d	6	30		BA15d/19	17	53	6.5	400	300			



Article no.	Description	V	W	Am-perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Luminous flux lm	Average life h	Individual life h	Burning position	PU
00843426	6.3V 4A P30s	6.3	25.2	4	P30s	35	59	22.4	302	1,500			

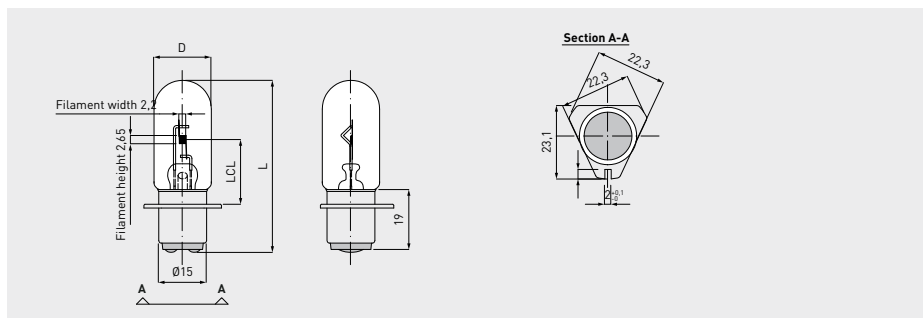


Article no.	Description	V	W	Am-perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Luminous flux lm	Average life h	Individual life h	Burning position	PU
00843428	6V 4.5A P30s	6	27	4.5	P30d	25	48	31	300	80			
00843425	6.1V 25W P30s	6.1	25		P30s	35	59	22.2	402	500			

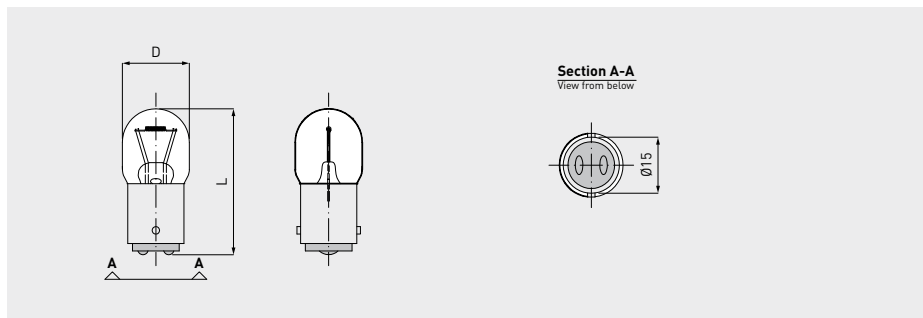
Projection and beam lamps

For optics and optoelectronics

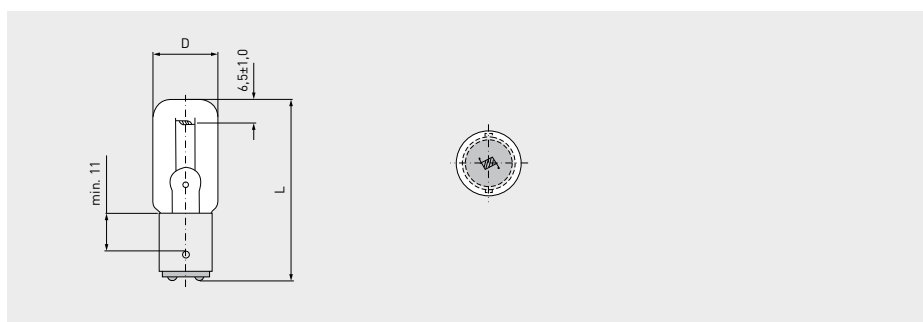
For special features, specific benefits and areas of use see page 171



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
00843429	6V 30W P27d 18x57 clear axial flat-core	6	30	5	P27d	18	56	20	430	100			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
00843431	6V 15W BA15d 17x39 clear	6	15		BA15d	17	39		180	100			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
00843474	6V 15W BA15d/19 17x52 clear	6	15		BA15d/19	18	52	5.0*	205	100			
77843174	6V 15W BA15d/19 18x53 clear	6	15		Ba15d/19	18	53	6.5*	210	100			

* distance between filament and bulb dome

Signal lamps

Medical lamps

Photo, studio and stage lamps

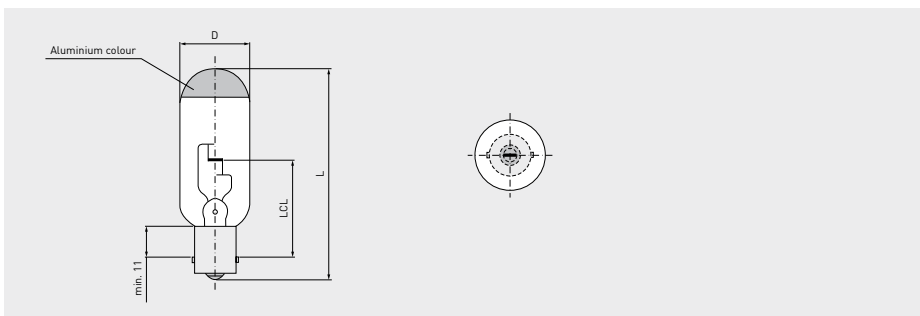
Domestic lamps

Projection and beam lamps

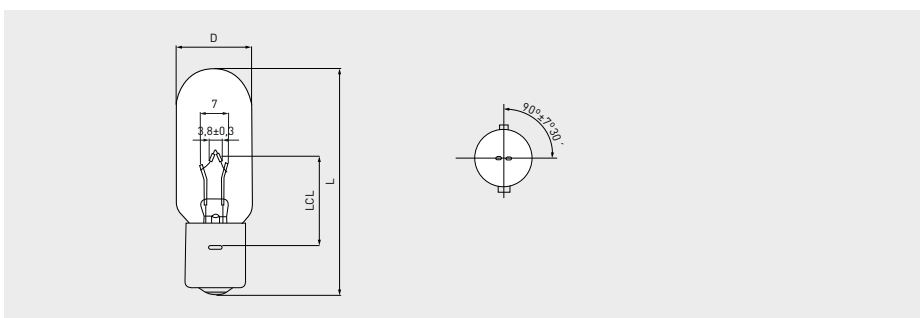
Projection and beam lamps

For optics and optoelectronics

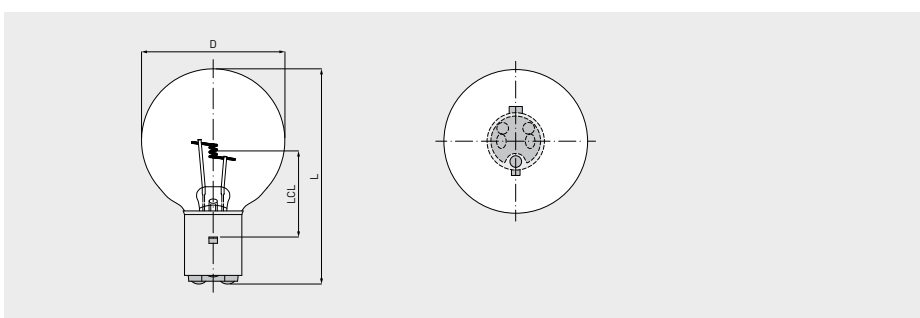
For special features, specific benefits and areas of use see page 171



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
70843175	12V 100W BA15s Alu-Kuppe	12	100		BA15s	25	78	35	2,790	20			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
77841022	12V 35W BA20s/23 T.25x78	12	35		Ba20s/23	25	78	30	630	100			

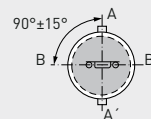
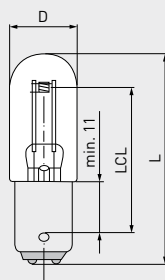


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Luminous f ux lm	Average life h	Individual life h	Burning position	PU
00844064	24V 100W BA20d	24	100		Ba20d	50	75	30	2,000	100		S135	

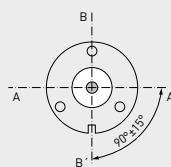
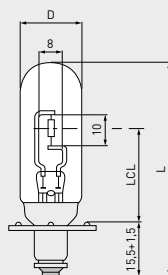
Projection and beam lamps

For optics and optoelectronics

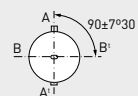
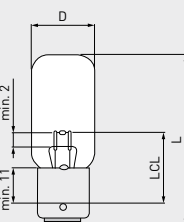
For special features, specific benefits and areas of use see page 171



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
77843173	6V 15W BA15d	6	15		BA15d	17.0	53	35	218	100			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
77843180	5V 4A S10s with PX28s-ring	5		4	Px28s	18.5	70	31.5	260	1,000			

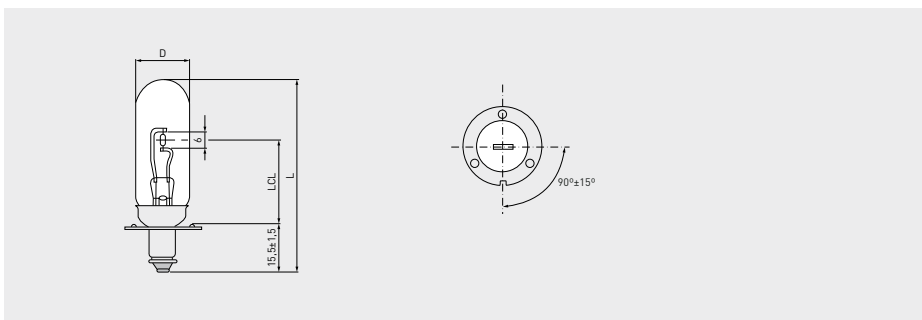


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
77843184	12V 0.5A Ba15s	12		0.5	BA15s	17	54	20	78	100			

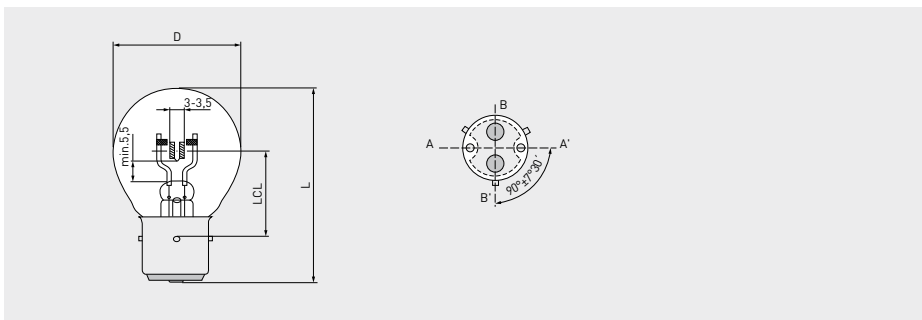
Projection and beam lamps

For optics and optoelectronics

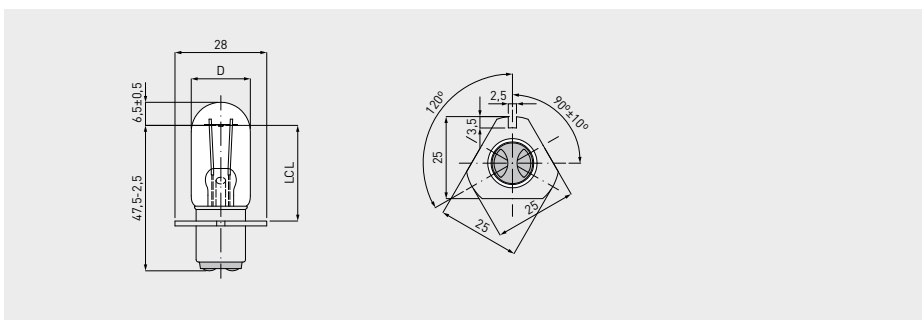
For special features, specific benefits and areas of use see page 171



Article no.	Description	V	W	Am-perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Luminous flux lm	Average life h	Individual life h	Burning position	PU
77843195	6.5V 1.48A S10s with PX28s-ring	6.5		1.48	PX28s-ring	18.5	70	31.5	117	500			



Article no.	Description	V	W	Am-perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Luminous flux lm	Average life h	Individual life h	Burning position	PU
77843202	16V 8A BA21d-3	16		8	BA21d-3	41	65	26.2	3,456	25			

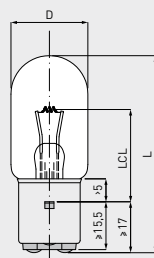


Article no.	Description	V	W	Am-perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Luminous flux lm	Average life h	Individual life h	Burning position	PU
77843373	6V 15W S15d with centring ring	6	15	2.5	S15d/19	18	54	30	170	100			

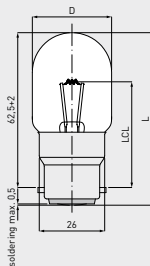
Projection and beam lamps

For optics and optoelectronics

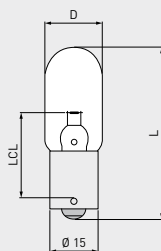
For special features, specific benefits and areas of use see page 171



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
E0843279	12V 24W BA20d/23	12	24		Ba20d	25	63	30	240	2,000			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
E0843281	12V 24W B22d	12	24		B22d	32	72.5	42	240	2,000			

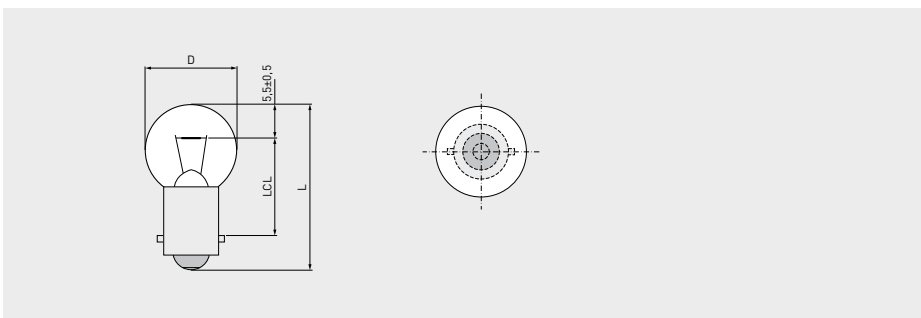


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
E0843285	6V 10W BA15s	6	10		Ba15s/19	19	53	27	115	5,000			
E0843286	6V 10W SX15s	6	10		SX15s	19	51	33.5	130	800			

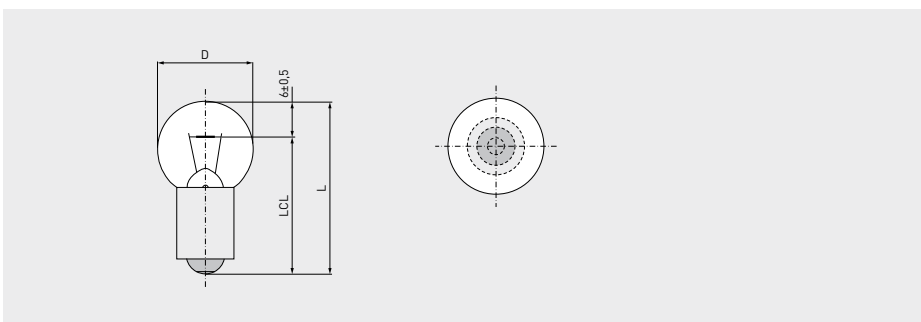
Projection and beam lamps

For optics and optoelectronics

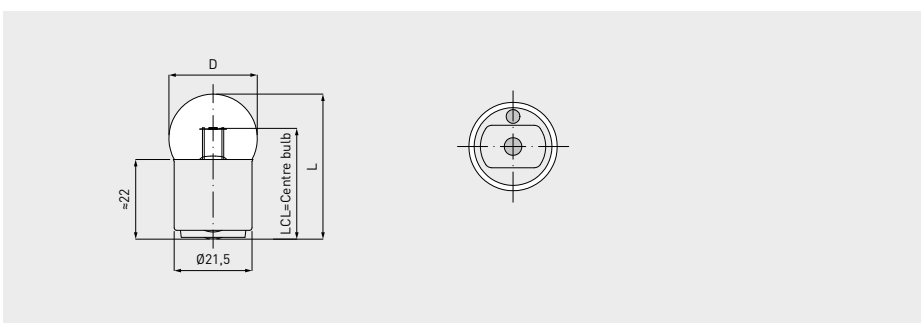
For special features, specific benefits and areas of use see page 171



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
E0843290	6V 1A BA9s/13	6		1	Ba9s/13	15	27	16	56	600			
E0843291	4V 4.5W S9s/13	4	4.5		S9s/13	15	27	21	36	500			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
E0843293	24V 3W S9s/13 without ring	24	3		S9s/13	15	27	21	9	10,000			
E0843291	4V 4.5W S9s/13	4	4.5		S9s/13	15	27	21	36	500			

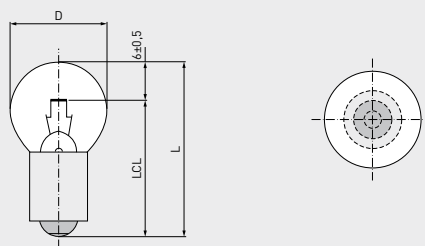


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length mm	Luminous flux lm	Average life h	Individual life h	Burning position	PU
00843419	6V 1A 6W B22s 25x40 clear	6	6	1	B22s	25	42		60	200			

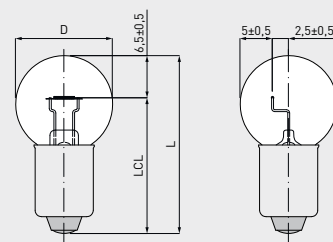
Projection and beam lamps

For optics and optoelectronics

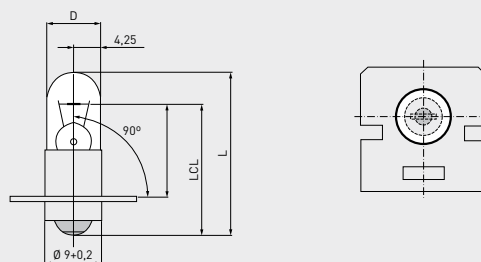
For special features, specific benefits and areas of use see page 171



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
E0843295	6V 6W S9s/13 without ring	6	6	0.9	S9s/13	15	27	21	63	200			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
E0843296	6V 6W S9s/13 without ring	6	6		S9s/13	15							

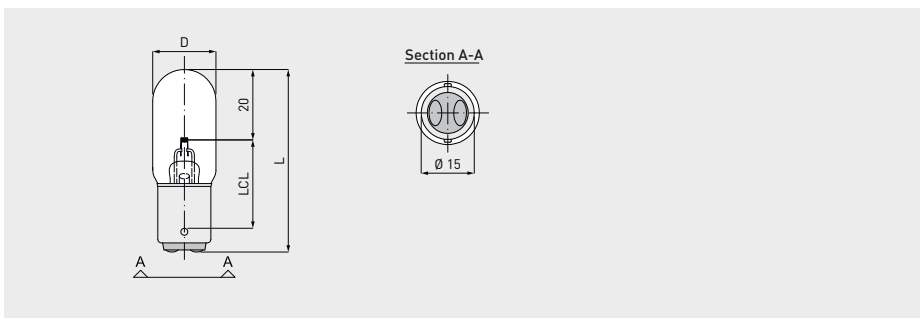


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
E0843304	20V 5W S9s/13 with flange plate	20	5		S9s/13	8.5	27	14.8	20	1,000			
E0843351	24V 6W S9s/13 with flange plate	24	6		S9s/13	8.6	27	14.8	20	1,000			

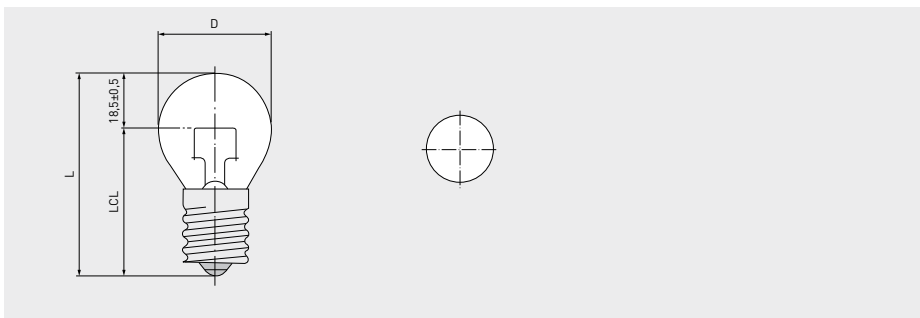
Projection and beam lamps

For optics and optoelectronics

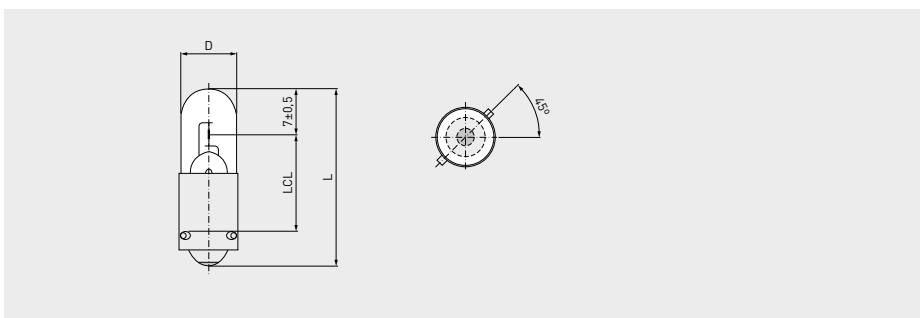
For special features, specific benefits and areas of use see page 171



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
E0843309	6V 15W BA15d	6	15		BA15d	19	54	25	220	200			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
E0843332	6.3V 5A E 27 projection lamp	6.3		5	E27	40	65	46		120			

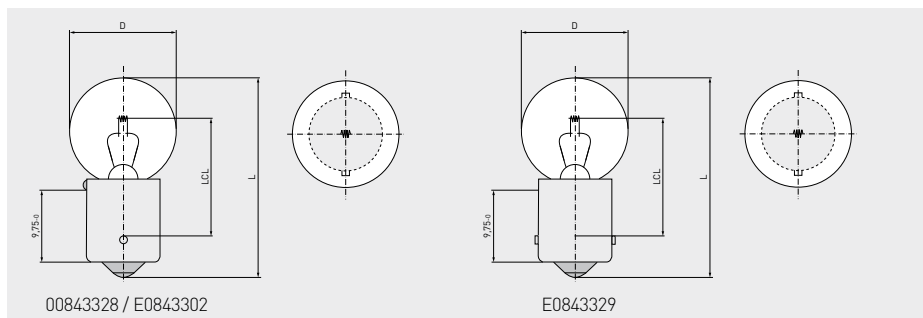


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
E0843324	6V 4W BA9s transversal	6	4		BA9s	8.5	25.5	15.5	22	1,000			
E0843327	6V 4W BA9s axial	6	4		Ba9s/14	8.5	27	15	26	1,000			
E0843301	6V 4W BA9s/14 transversal	6	4		Ba9s/14	8.5	25.5	15	17				
E0843338	6V 5W Ba9s/14 transversal	6	5		Ba9s/14	8.5	27	15.5	28.5	5,000			
E0843386	6V 6W BA9s	6	6		BA9s	8.5	28	15	60	200			
E0843298	6V 6W BA9s/14 transversal	6	6		Ba9s/14	8.5	27	14.4	27	10,000			
E0843369	6V 6W BA9s transversal	6	6		BA9s	8.5	27	16	68	500			

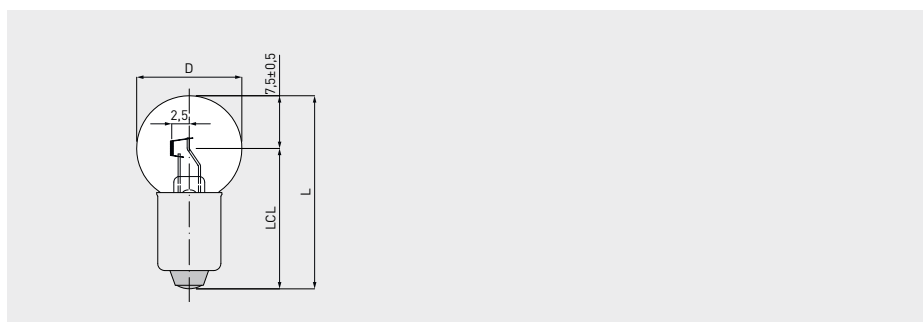
Projection and beam lamps

For optics and optoelectronics

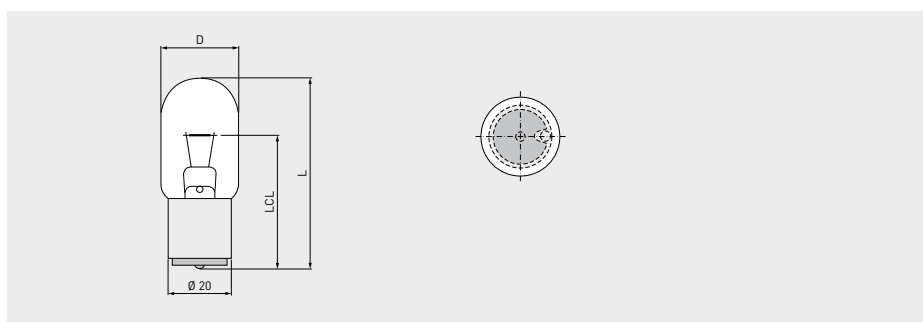
For special features, specific benefits and areas of use see page 171



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
00843328	6V 6W BA9s	6	6		BA9s	15	27	15	60	200			
E0843329	6V 6W BA9s	6	6		BA9s	15	27	16	60	200			
E0843302	6V 10W BA9s/14	6	10		Ba9s/14	15	27	15	130	200			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
E0843330	6V 0.55A S9s/13 o.ring	6		0.55	S9s/13	15	28	19.5	19	500			

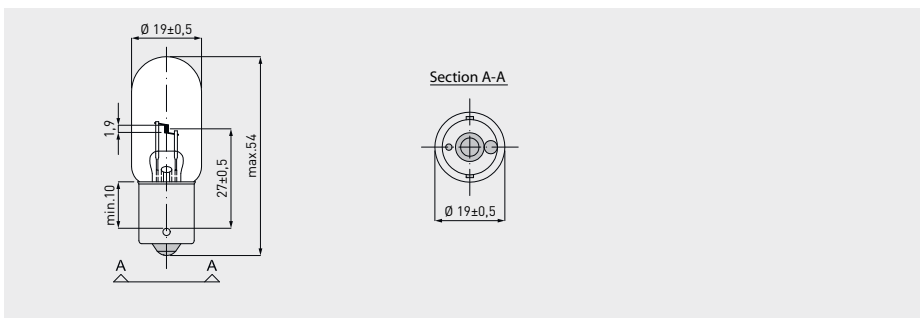


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
E0843334	6V 20W H20s	6	20		H20s	25	60	42	280	500			

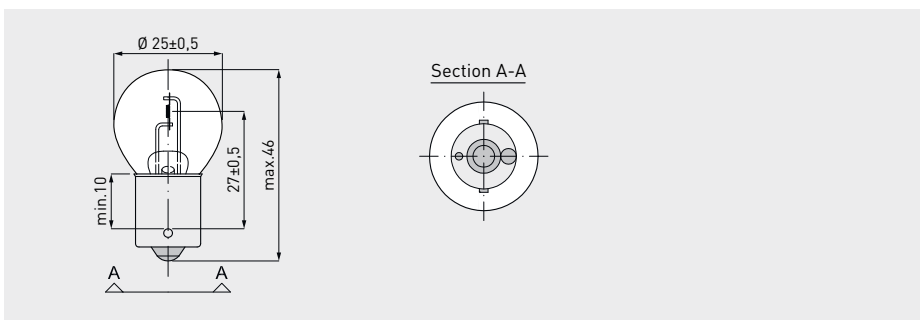
Projection and beam lamps

For optics and optoelectronics

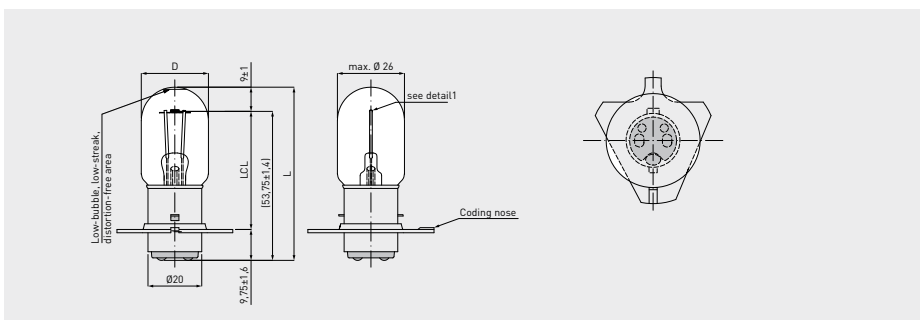
For special features, specific benefits and areas of use see page 171



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
E0843335	6V 15W Ba15s	6	15		BA15s	19	54	27	150	600			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
E0843340	6V 10W BA15s axial	6	10		BA15s	26	46	27	90	600			

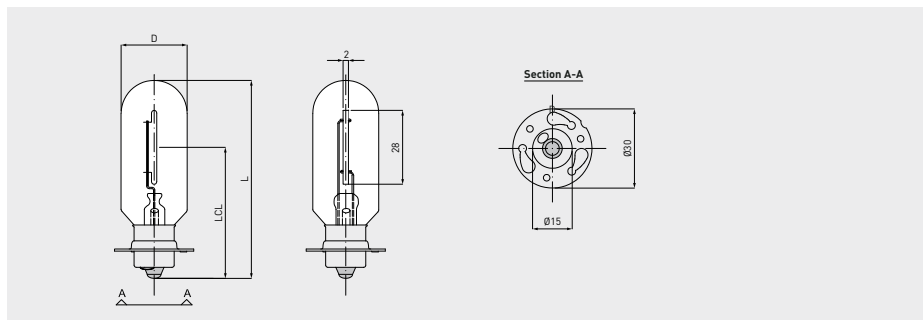


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
X0843113	6V 30W P47d [BA20d with ring] 26x65 clear	6	30	5	Ba20d/26	26	65	44	580	100		S10	

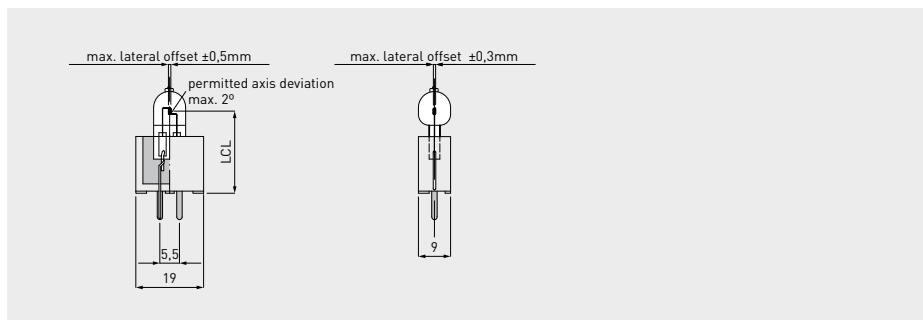
Projection and beam lamps

For optics and optoelectronics

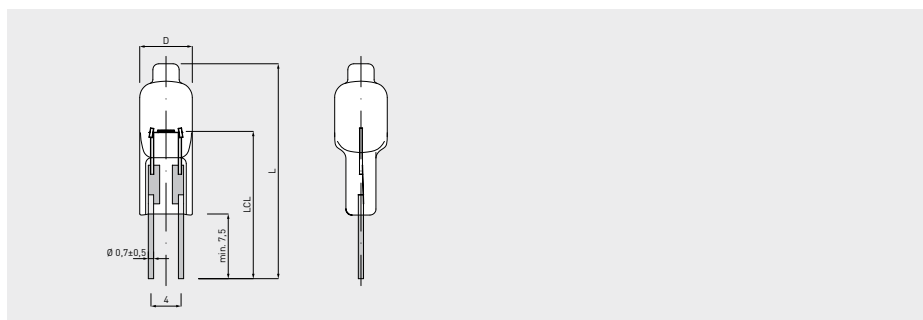
For special features, specific benefits and areas of use see page 171



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter	Total length	Light centre length	Lumi- nous f ux lm	Average life	Individual life	Burning position	PU
00845302	2V 10A Sx15s with P30 ring 25x75 W-band	2		10	P30s	mm 25	max. mm 75	mm			h		



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter	Total length	Light centre length	Luminous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00847115	6V 10W G 5.3 Halogen	6	10		G 5.3	max. mm 10	max. mm	mm 23	90	4,000			

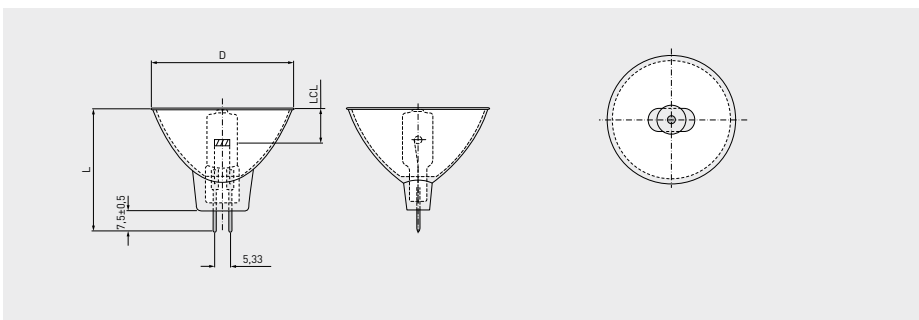


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D	Total length L	Light centre length LCL	Luminous f ux lm	Average life h	Individual life h	Burning position	PU
00847121	4V 4W T7.7x31 CL	4	4		G4	max. mm 7.7	max. mm 31	mm 19.6	56	250			
00847133	4V 5.5W G4 T.8x31 CL	4	5.5		G4	max. mm 8	max. mm 31	mm 19.5	80	100			

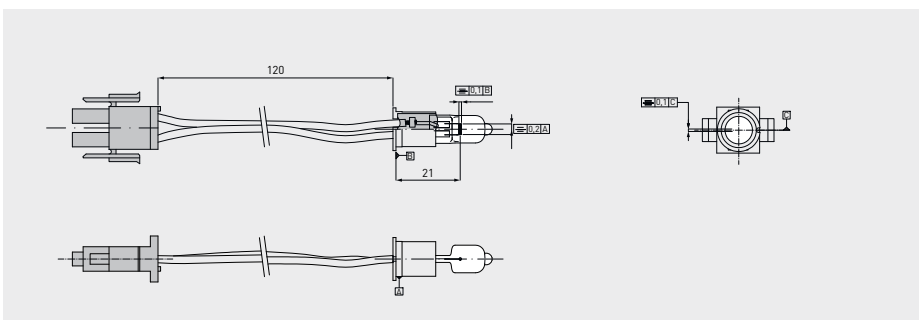
Projection and beam lamps

For optics and optoelectronics

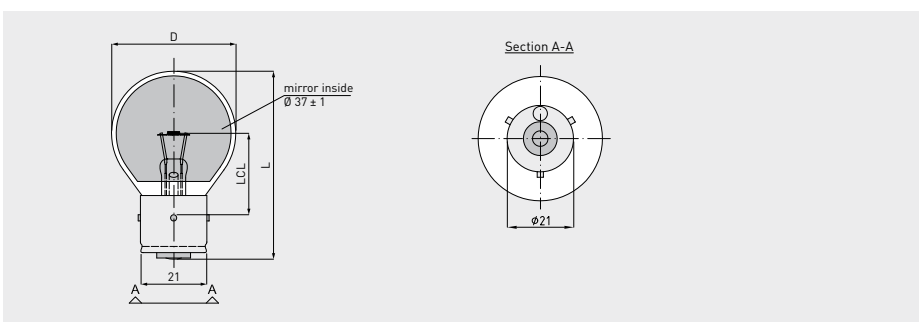
For special features, specific benefits and areas of use see page 171



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
00847500	24V 250W GX5.3 CC6 50MM reflector	24	250		GX 5.3	50	44		7,000	50			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
TONLAMPE	6V 20W G4 + special socket	6	20			10	33	21					

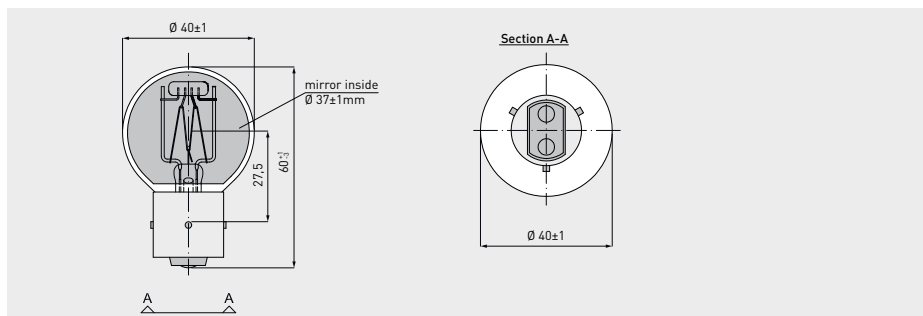


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
00833409	6V 30W Ba21s3 SM	6	30		Ba21s3	40	61	26.2	465	300			

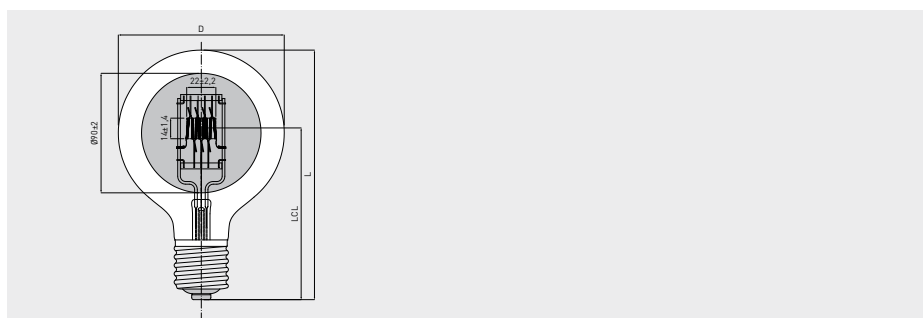
Projection and beam lamps

For optics and optoelectronics

For special features, specific benefits and areas of use see page 171

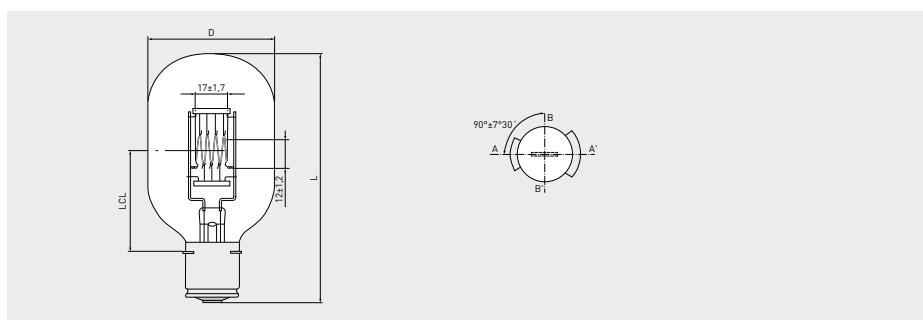


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter	Total length	Light centre length	Lumi- nous f ux lm	Average life	Individual life	Burning position	PU
00833408	230V 75W Ba21d3 SM	230	75		BA21d3	40	61	26.2	820	300			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life	Individual life	Burning position	PU
70833243	230V 1000W E40/45 SM	230	1,000		E40/45	125	193	125	23,000	100			
70833254	230V 1000W E40 SM	230	1,000		E40	125	193	125	26,000	40			

SM = side mirror

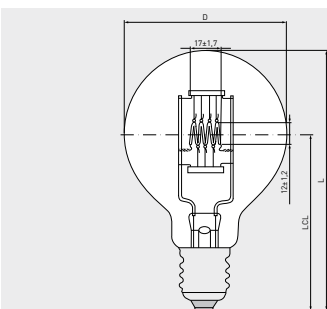


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life	Individual life	Burning position	PU
70843265	220V 500W P28s	220	500		P28s	65	135	55.6	10,950	100			

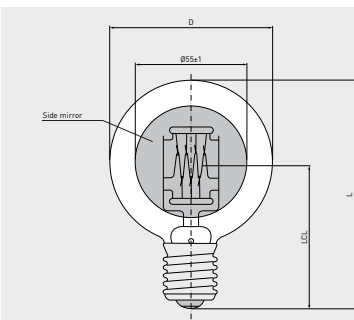
Projection and beam lamps

For optics and optoelectronics

For special features, specific benefits and areas of use see page 171

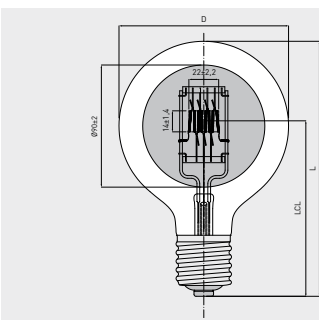


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
70843276	220V 500W E27	220	500		E27	80	129	85	10,950	100			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
77833215	220V 250W E27/30 SM	220	250		E27/30	80	115	70	4,375	70			
70833219	220V 500W P28s SM	220	500		P28s	80	125	55.6	10,950	70			

SM = side mirror



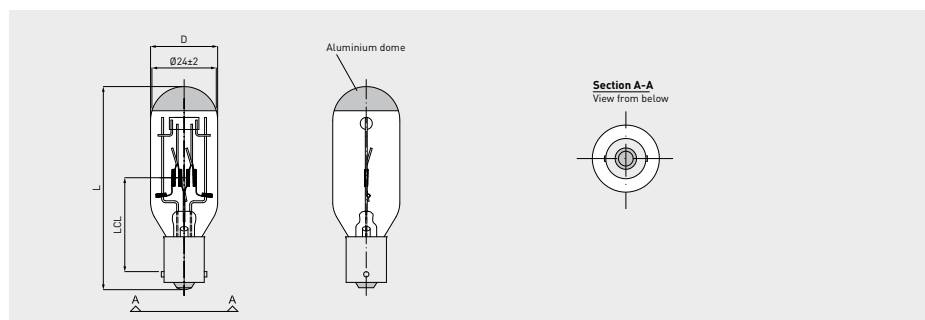
Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00833228	240V 1,000W E40 SM	240	1,000		E40	125	193	125	23,000	100			

SM = side mirror

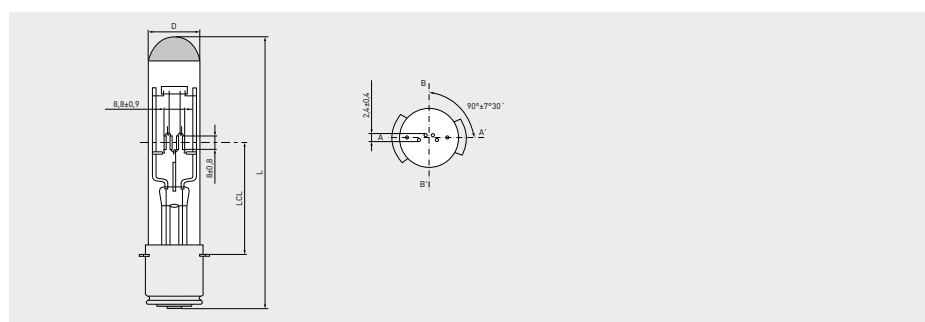
Projection and beam lamps

For optics and optoelectronics

For special features, specific benefits and areas of use see page 171



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
77843179	220V 100W BA15s Aluminium dome	220	100		BA15s	25	78	35	1,680	25			
77843178	220V 150W BA15s Aluminium dome	220	150		BA15s	25	90	35	2,740	25			
77843208	240V 300W BA15s Aluminium dome	240	300		BA15s	28	104	35	6,000	25			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
77843246	220V 150W P28s/33 Aluminium dome	220	150		P28s/33	29	135	55.6	2,740	25			
77843389	230V 100W P28s Aluminium dome	230	100		P28s	29	135	55.6	1,700	25			
77843247	230V 250W P28s Aluminium dome	230	250		P28s	32	135	55.6	4,880	50			



Lamps for scales

Transparency scales from different manufacturers are still in operation. They are a stable, functional form of scales that many people swear by. We make every effort to keep appropriate lamps for most constructions in stock. We can, under certain circumstances, manufacture outdated models individually.

Lamps for scales

For transparency scales

Special features:

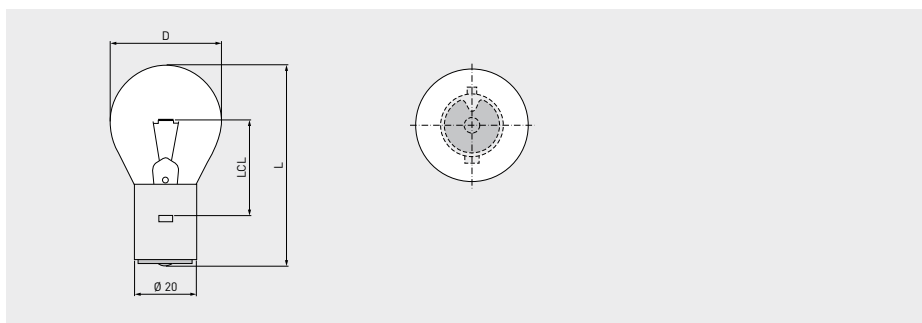
- precision of manufacture
- minimal tolerances in the positioning of the filaments

Specific benefits:

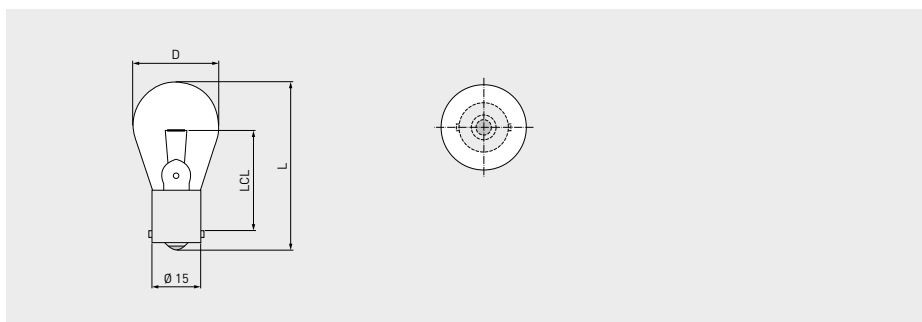
- original lamps for optimum device function

Areas of use:

- transparency scales



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Luminous flux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00841001	5.5V 30W BA20s	5.5	30		BA20s	36	64	30	350	800		S135	

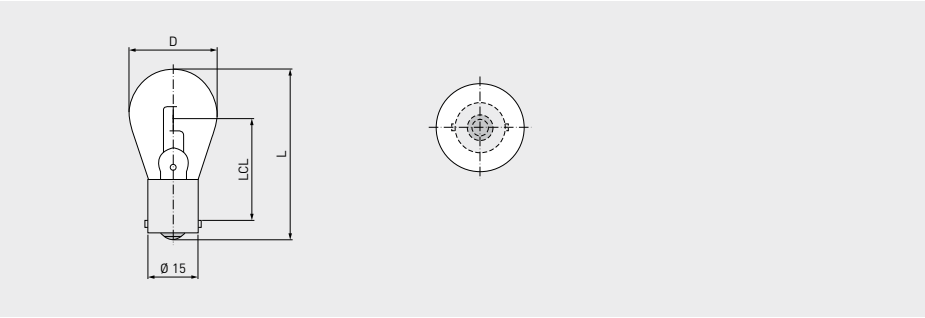


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Luminous flux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00841002	6V 1.4A BA15s	6		1.4	BA15s	26	50	30	85	2,000		S135	

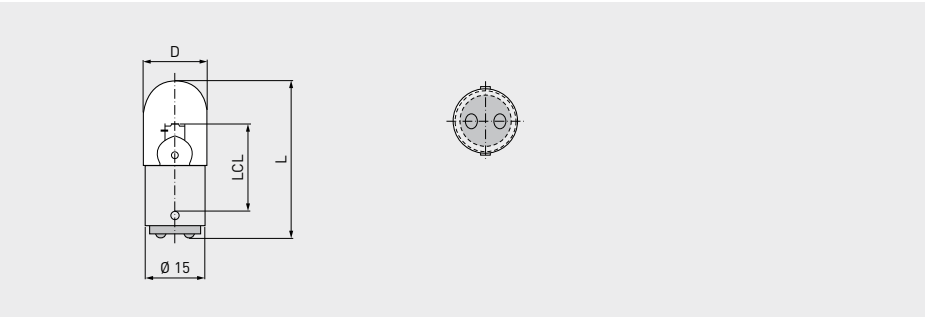
Lamps for scales

For transparency scales

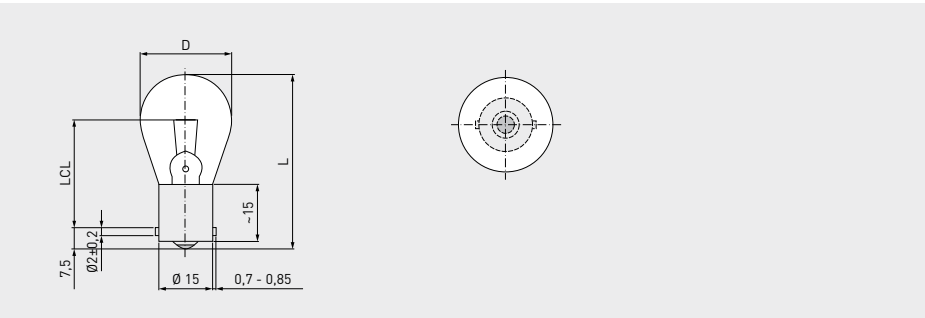
For special features, specific benefits and areas of use see page 201



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Luminous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00841005	6V 15W BA15s	6	15		Ba15s	25.5	52	31	145	2,500		S135	
00841006	6V 15W BA15d	6	15		Ba15d/19	25.5	52	31	145	2,500			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter mm	Total length max. mm	Light centre length mm	Luminous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00841007	6.3V 5W BA15d	6.3	5		BA15d	16	40	22.5	45	1,000		S135	



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00841008	6.5V 9,1W BA15s	6.5	9.1	1.4	BA15s	25	48	30	90	700		S135	

Signal lamps

Medical lamps

Photo, studio and stage lamps

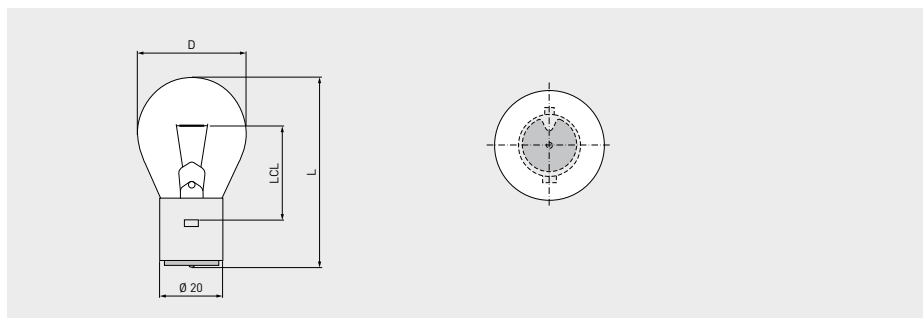
Domestic lamps

Lamps for scales

Lamps for scales

For transparency scales

For special features, specific benefits and areas of use see page 201



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00841009	12V 35W BA20s cc6	12	35		BA20s	36	60	30	390	400		S135	
00841010	12V 35W BA20s c6	12	35		BA20s	36	60	30	400	200		S135	
00841014	12V 40W BA20d/23	12	40		BA20d	36	67	30	795	500		S135	
00841012	12V 45W BA20s	12	45		BA20s	36	60	30	510	2,500		S135	

Selling is showing

Anyone who presents their goods, shows them in their proper light, sells. Shop lighting has now become an important discipline of goods presentation. Shop window lighting, light to create an atmosphere in a room or spotlights highlighting specific goods: the right lamp is the sine qua non for the emotional added value of shops and products.

Lamps for shop lighting have a longer life, a good light yield at low consumption and pleasant light colours. Because shop lighting must create a comfortable light atmosphere and illuminate the products as faithfully to their colour and attractively as possible.



Lamps for shop lighting

Special features:

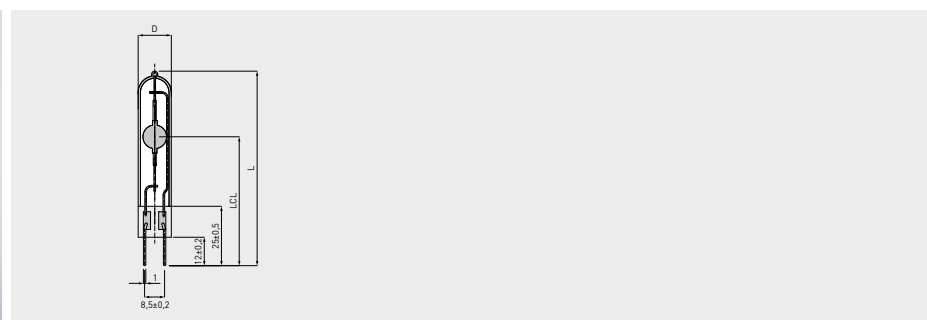
- precision of manufacture
- special colour temperature
- long life

Specific benefits:

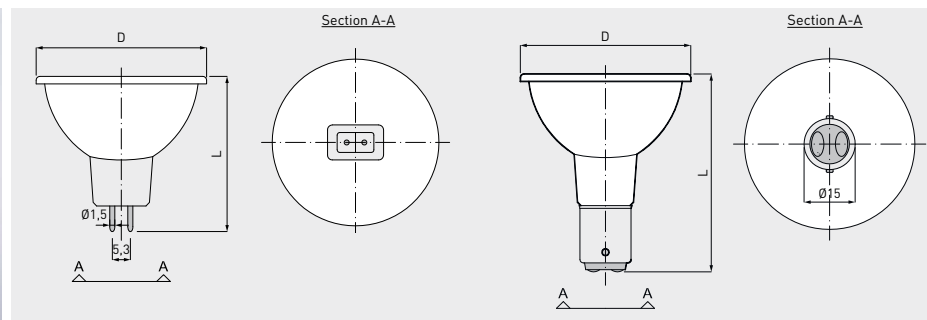
- the sales-promoting illumination of goods

Areas of use:

- shop lighting
- illumination for specific goods such as wurst and baked goods



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
00014728	12V 45W G8.5 Masterline TC	12	45		G8.5	14	85	52	1,100	5,000			
00014729	12V 60W G8.5 Masterline TC	12	60		G8.5	14	85	52	1,600	5,000			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	angle of radia- tion	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
8500310501	cold mirror reflector lamp 12V 20W disc 01	12	20		Gu5.3	51	46	35°	550	4,000			
8500310601	cold mirror reflector lamp 12V 35W disc 01	12	35		Gu5.3	51	46	35°	1,020	4,000			
8500310602	cold mirror reflector lamp 12V 35W disc 02	12	35		Gu5.3	51	46	35°	1,080	4,000			
8500310603	cold mirror reflector lamp 12V 35W disc 03	12	35		Gu5.3	51	46	35°	1,200	4,000			
8500310701	cold mirror reflector lamp 12V 50W disc 01	12	50		Gu5.3	51	46	35°	1,530	4,000			
8500310702	cold mirror reflector lamp 12V 50W disc 02	12	50		Gu5.3	51	46	35°	1,620	4,000			
8500310703	cold mirror reflector lamp 12V 50W disc 03	12	50		Gu5.3	51	46	35°	1,800	4,000			
8500311503	cold mirror reflector lamp 12V 20W Ba15d disc 03	12	20		BA15d	51		35°	550	4,000			
8500311701	cold mirror reflector lamp 12V 50W Ba15d disc 01	12	50		BA15d	51		35°	1,530	4,000			
8500311703	cold mirror reflector lamp 12V 50W Ba15d disc 03	12	50		BA15d	51		35°	1,800	4,000			

Disc 01 used for: meat products;

Disc 02 used for: baked goods, milk products, fruit and vegetables;

Disc 03 used for: with UV filter glasses

Light has many meanings

Light is not only used for signal lamps or projection purposes, not only is light indispensable in the field of medicine, in the studio or on the stage: architecture, including the illumination of rooms, external and internal, also needs special lamps.

If art is to be presented attractively in a gallery or

museum, then there must be good lighting conditions. And it really takes the right lighting to turn a swimming-pool into a wellness oasis.

And just as it is only light that can make the events on the stage what they are, architects and planners need light to generate the right atmosphere for rooms and spaces.



Lamps for special lighting purposes

Individual applications

Special features:

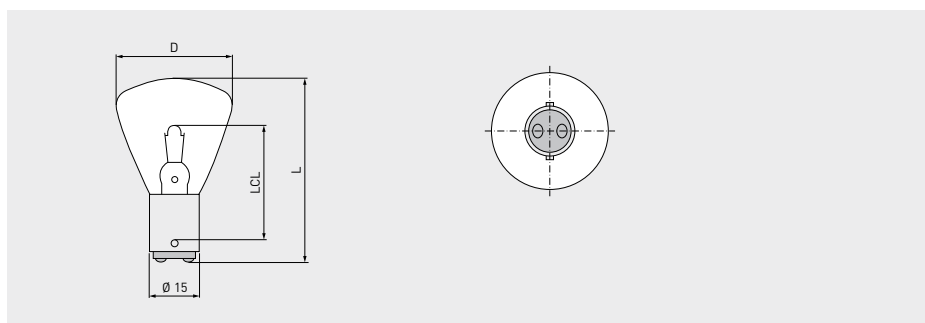
- special types made to customer specification
- precision of manufacture

Specific benefits:

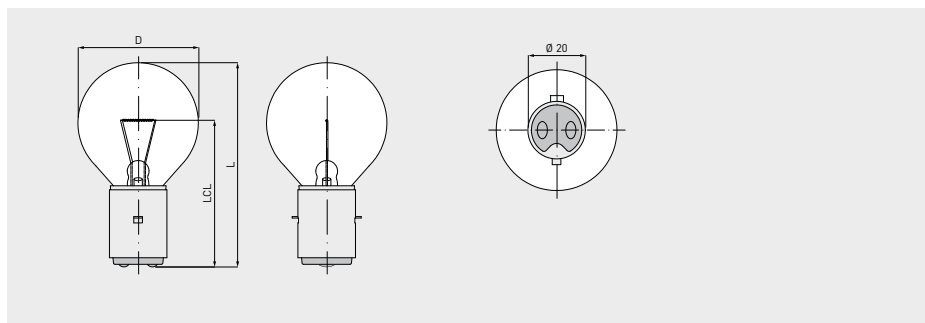
- conventional types with a corrosion-proof nickel-plated socket
- also available in halogen and LED versions

Areas of use:

- special illuminating purposes
- low-voltage swimming-pool lighting



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
00842008	12V 35W BA15d	12	35		BA15d	35	56	33	480	1,000			
00944012	12V 35W BA15s	12	35		BA15s	35	56	32.5	460	200			

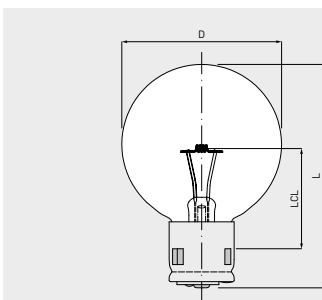


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
00842443	24V 50W BA20d/26	24	50		Ba20d	42	71	36.5	500	2,000		S135	

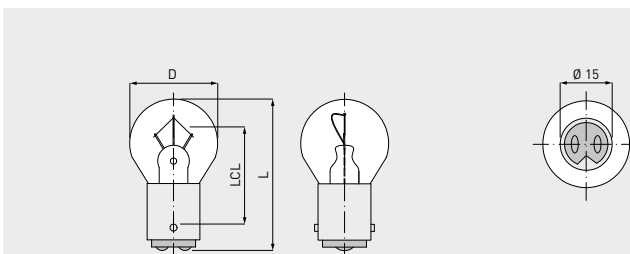
Lamps for special lighting purposes

Individual applications

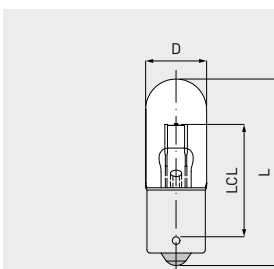
For special features, specific benefits and areas of use see page 207



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00842121	24V 100W B24s/3	24	100		B24s/3	60	85	37	2,000	100			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00842507	30V 10W BA15d/19	30	10		BA15d/19	25	46	22.5	85	1,000			
00842015	30V 15W BA15s	30	15		BA15s	25	45	20	190	800			
00845301	85V 10W Ba15s/19 25x43 clear	85	10		Ba15s/19	25	45	Centre bulb	90	1,000			

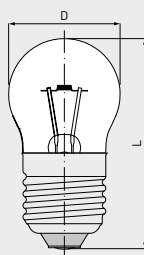


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length mm	Luminous f ux lm	Average life h	Individual life h	Burning position	PU
00843001	3V 1.5A BA15s	3		1.5	BA15s	16	49	30	40	500			

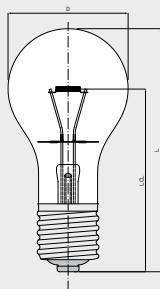
Lamps for special lighting purposes

Individual applications

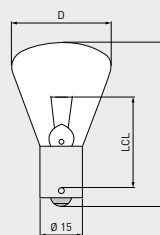
For special features, specific benefits and areas of use see page 207



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
00843033	6V 48W E27	6	48		E27	35	70	Centre bulb	850	300			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
00843404	24V 300W E40	24	300		E40	80	165	121	6,000	100			
00845320	48V 300W E40	48	300		E40	110	235	Centre bulb	3,300	2,000			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
00845001	6V 15W BA15s	6	15		BA15s	35	57	31.8	175	1,500			
00845004	12V 10W BA15s	12	10		BA15s	16	44	28	145	15,000*			
00944017	24V 35W BA15s	24	35		BA15s	35	56	31.8	300	1,000			
00945038	24V 35W BA15d	24	35		BA15d	35	56	31	600	300			
00144500	24V 45W BA15s	24	45		BA15s	35	56	31.8	500	1,000			
00845149	24V 15W BAU 15d	24	15		Bau15d	35	57	24	170	1,000			

* at 10V

Signal lamps

Medical lamps

Photo, studio and stage lamps

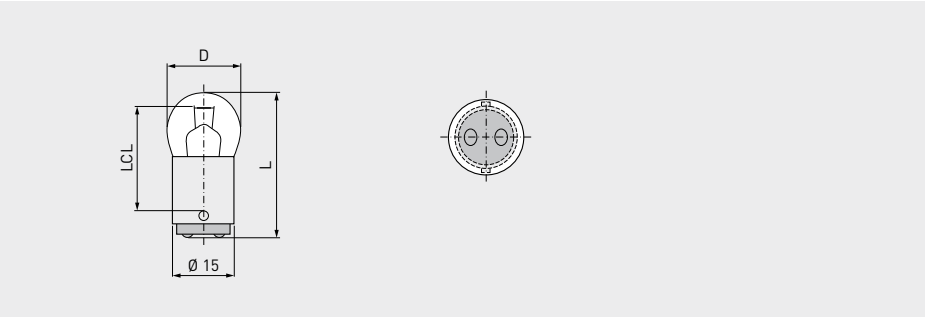
Domestic lamps

Special lighting purposes

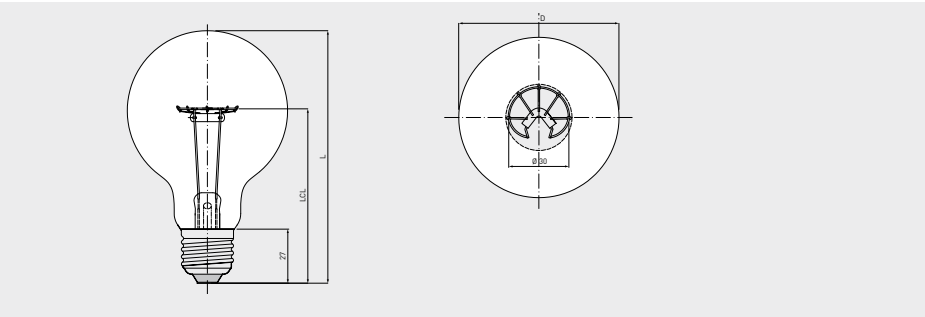
Lamps for special lighting purposes

Individual applications

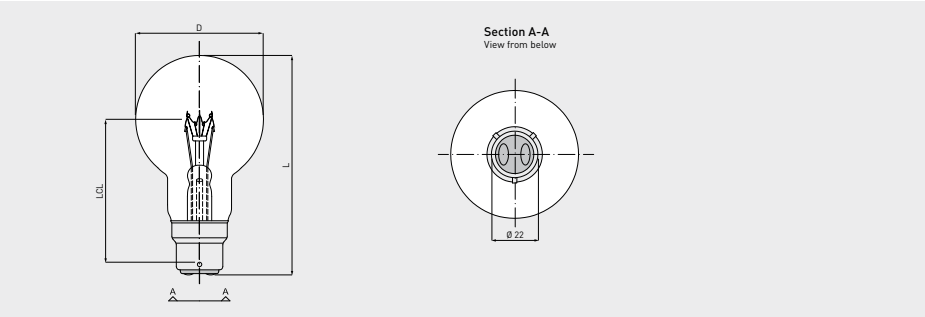
For special features, specific benefits and areas of use see page 207



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00845006	24V 5W BA15d	24	5		BA15d	18	35	20	40	1,000			
00845128	24V 5W BAU15d	24	5		Bau15d	18	38	8*	25	6,000			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00845272	85V 250W E27/27	85	250		E27/27	80	126	87	3,300	1,000			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00845295	55V 25W B22d clear shock-resistant	55	25		B22d/25x26	60	103	Centre bulb	220	1,000			

Signal lamps

Medical lamps

Photo, studio and stage lamps

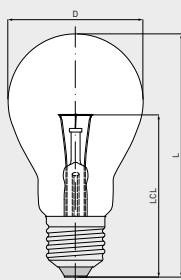
Domestic lamps

Special lighting purposes

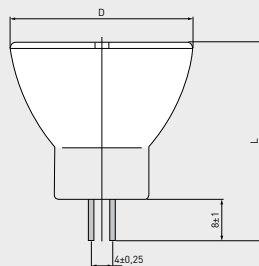
Lamps for special lighting purposes

Individual applications

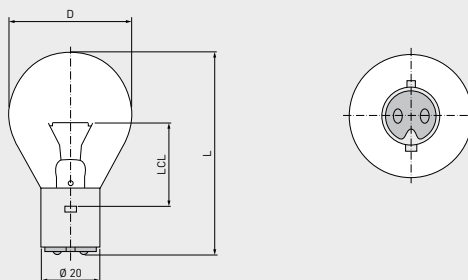
For special features, specific benefits and areas of use see page 207



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
00845298	27V 60W E27	27	60		E27	60	103	Centre bulb	850				



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
00847081	12V 10W G4 KLS reflector w. frontal disc	12	10		G4	35	38		100	2,000			
00847079	12V 20W G4 KLS reflector	12	20		G4	35	38		250	2,000			

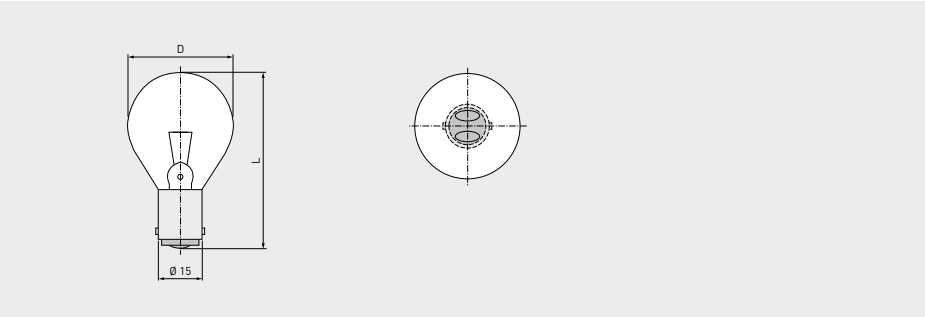


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
00944018	24V 35W BA20d	24	35		BA20d	35	67	30	550	100			
00945019	12V 50W BA20d	12	50		BA20d	40	67	30	700	1,000			
00945024	12V 75W BA20d clear	12	75		BA20d	40	72	30	850	500			
00845251	24V 50W BA20d	24	50		BA20d	40	68	34.5	670	300			
00945084	24V 50W BA20d	24	50		BA20d	40	67	30	580	1,500			
00945068	24V 75W BA20d	24	75		BA20d	40	69	30	1,060	1,500			
00935046	24V 100W BA20d	24	100		BA20d	40	72	30	1,000	1,000			
00945045	24V 100W BA20d	24	100		BA20d	40	69	30	1,000	1,000			
00935054	42V 100W BA20d	42	100		BA20d	40	67	30	1,100	1,000			
00945053	42V 100W BA20d	42	100		BA20d	40	69	30	1,100	1,000			

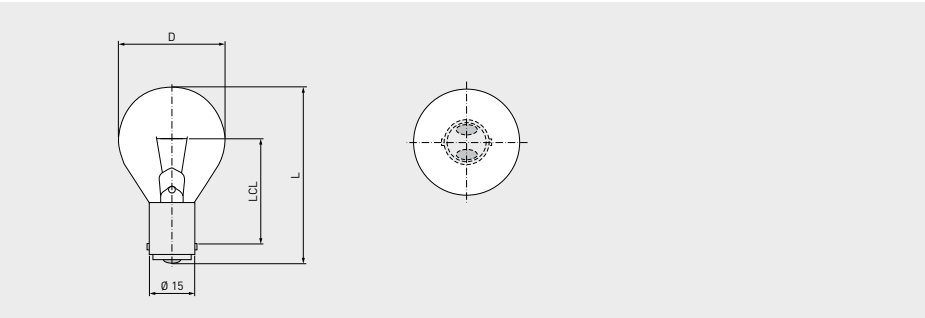
Lamps for special lighting purposes

Individual applications

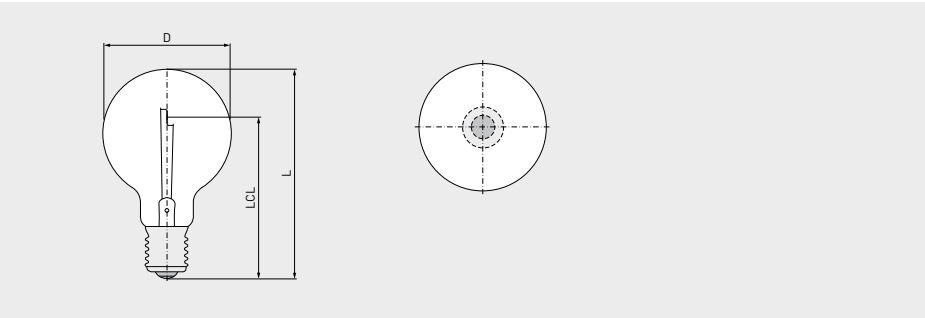
For special features, specific benefits and areas of use see page 207



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00945033	24V 25W BA15d	24	25		BA15d	36	60		410	300			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00945042	24V 50W BA15d	24	50		BA15d	35	58.5	35	650	1,000			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00945205	24V 150W E27	24	150		E27	80	130	100	3,800	200			

Signal lamps

Medical lamps

Photo, studio and stage lamps

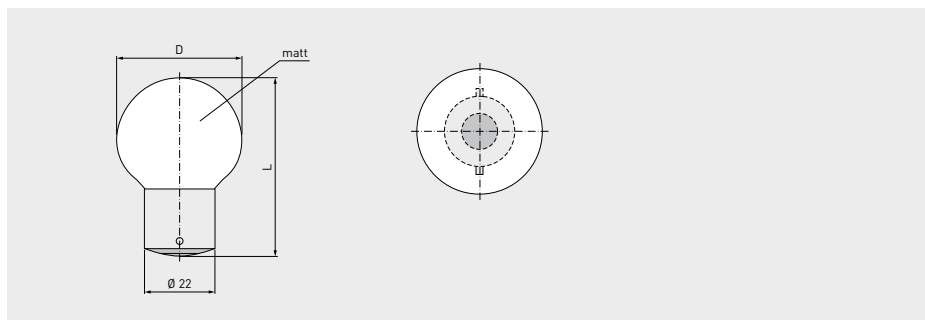
Domestic lamps

Special lighting purposes

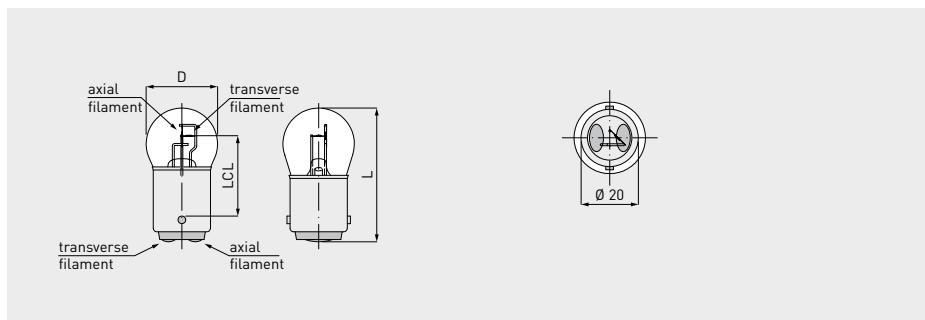
Lamps for special lighting purposes

Individual applications

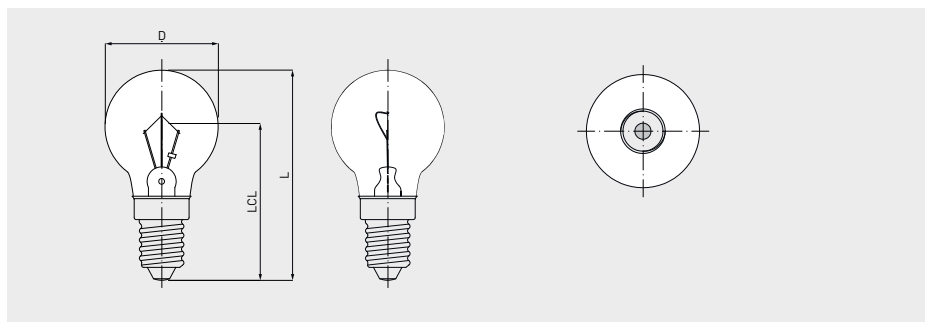
For special features, specific benefits and areas of use see page 207



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter mm	Total length max. mm	Light centre length mm	Luminous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00825005	12V 15W B22s	12	15		B22s	40	56.5		230	200		S135	



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00845321	3.75V 1/1A Ba15d head lamp	3.75		1/1	Ba15d	18.7	36.5	21	30	300			

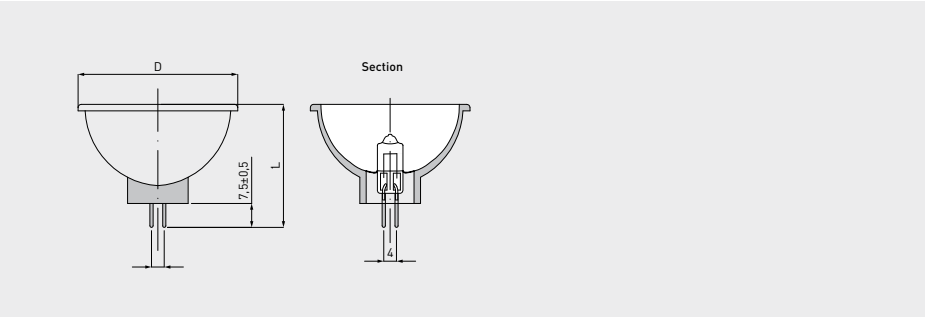


Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Luminous f ux lm	Average life h	Individual life h	Burning position	PU
00845293	40V 6W E27 35x62 clear	40	6		E27	35	62						
00845297	42V 7W E14 35x48 clear	42	7		E14	35	65	48					

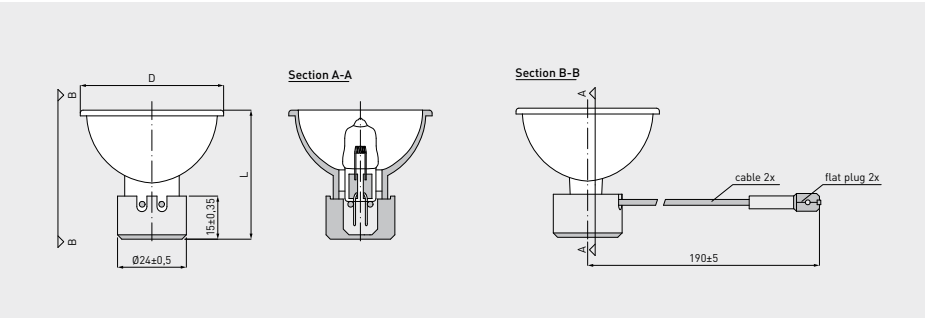
Lamps for special lighting purposes

Individual applications

For special features, specific benefits and areas of use see page 207



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous flux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00847046	7V 7W KLS-reflector without frontal glass disc	7	7		Special	35	41						



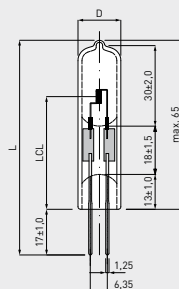
Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous flux lm	Average life h	Individual life h	Burning position	PU
00847101	12V 50W KLS reflector and plug connection 6.3x0.8	12	50		K23d	50			900	2,000			



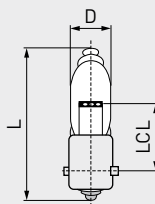
Lamps for special lighting purposes

Individual applications

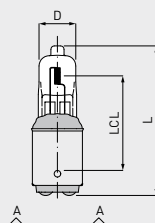
For special features, specific benefits and areas of use see page 207



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00847146	30V 200W G6.35 short flex clear T16x80	30	200		G6.35	16	80	63	4,500				
00847144	30V 200W G6.35 short flex matt T 16/80	30	200		G6.35	16	80	63	4,500	1,000			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00847149	24V 10W Ba9s T8x30 clear	24	10		Ba9s	10	32	13.5	140	2,000			



Section A-A



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00847152	12V 50W BA15d 11x45 clear	12	50		BA15d	11	45	28.5	950	3,000			

Signal lamps

Medical lamps

Photo, studio and stage lamps

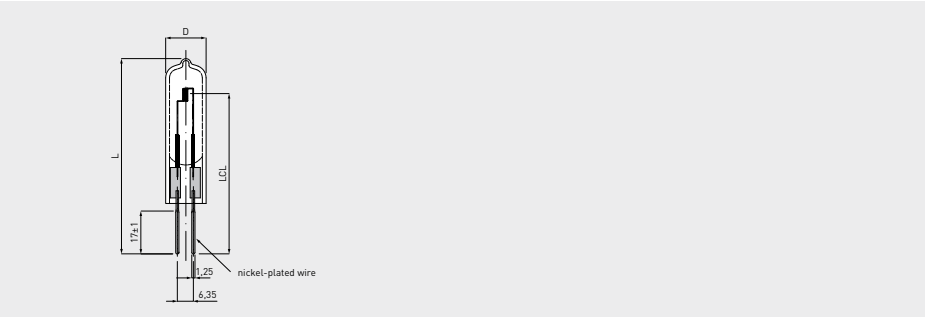
Domestic lamps

Special lighting purposes

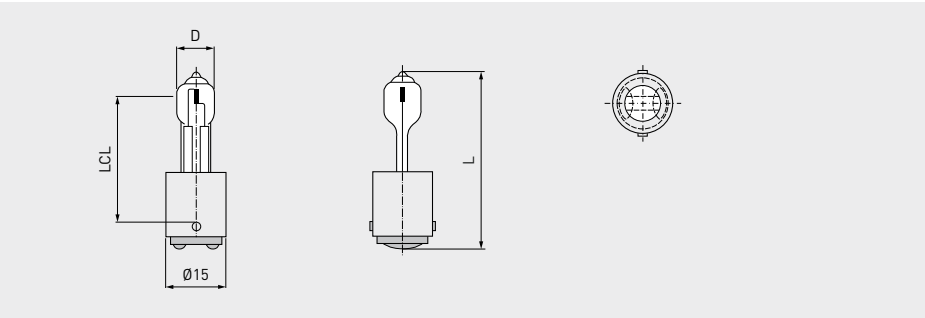
Lamps for special lighting purposes

Individual applications

For special features, specific benefits and areas of use see page 207



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter	Total length	Light centre length	Lumi- nous f ux lm	Average life	Individual life	Burning position	PU
						mm	max. mm	mm		h	h		
00847610	12V 175W G6.35 T.16x80 clear 3500lm	12	175		G6.35	16.5	80	63	3,500	1,000			
00847611	30V 200W G6.35 T.16x80 clear 4000lm	30	200		G6.35	16.5	80	63	4,000	1,000			
00847612	30V 400W G6.35 T.16x80 clear 8000lm	30	400		G6.35	16.5	80	63	8,000	1,000			



Article no.	Description	V	W	Am- perage	Socket	Lampen- durchmesser	Total length	Light centre length	Lumi- nous f ux lm	Average life	Individual life	Burning position	PU
						max. mm	max. mm	mm		h	h		
8500003006	Halogen lamp 10.8V 35W BA 15d	10.8	35		BA15d	17	49		525	6,000			
8500003007	Halogen lamp 10.8V 50W BA 15d	10.8	50		BA15d	17	49		780	6,000			
8500003008	Halogen lamp 10.8V 75W BA 15d	10.8	75		BA15d	17	49		1,330	6,000			



Signal lamps

Medical lamps

Photo, studio and stage lamps

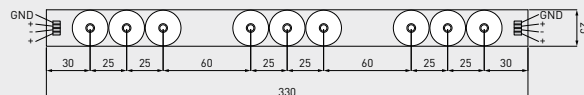
Domestic lamps

Special lighting purposes

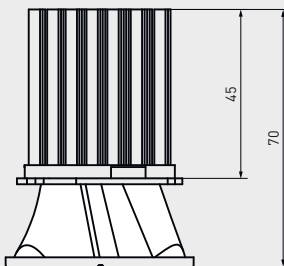
Lamps for special lighting purposes

Individual applications

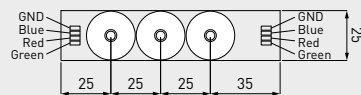
For special features, specific benefits and areas of use see page 207



Article no.	Description	V	W	Am- perage	Socket	dimensions max. mm	Light centre length mm	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00330001	LED board blue 9x1W (350mA) incl. power source		9	0.35		25 x 330			30,000		any	



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00330002	LED board blue blau round d=50 Opt.45° 3x1W		3	0.35		50	70			30,000		any	
00330005	LED board green round d=50 Opt.45° 3x1W		3	0.35		50	70			30,000		any	
00330006	LED board warm white round d=50 Opt.45° 3x1W		3	0.35		50	70			30,000		any	
00330007	LED board blue cold white round d=50 Opt.45° 3x1W		3	0.35		50	70			30,000		any	



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00330008	LED board blue 3x1W (350mA) incl. power source		3	0.35		50	70			30,000		any	

Signal lamps

Medical lamps

Photo, studio and stage lamps

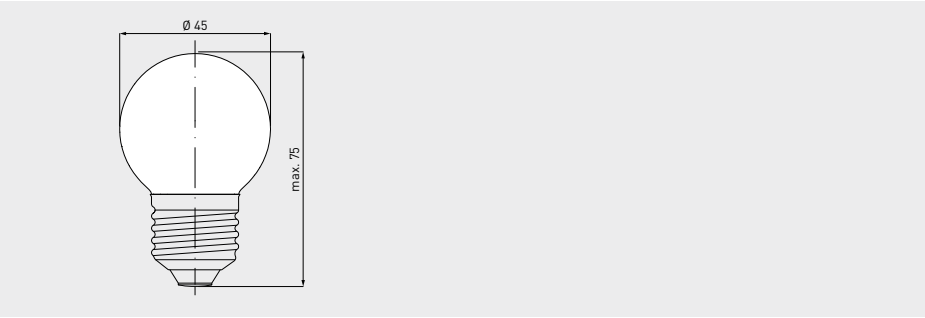
Domestic lamps

Special lighting purposes

Lamps for special lighting purposes

Individual applications

For special features, specific benefits and areas of use see page 207

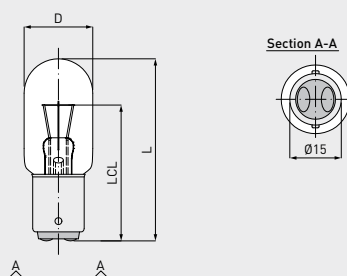


Article no.	Description	V	W	Am- perage mA	Socket	Bulb diameter mm	Total length max. mm	Light centre length mm	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00331201	LED drip lamp G45 230V 1.2W E27 warm white	230	1.2	14	E27	45	75		25	25,000		any	
00331202	LED drip lamp G45 230V 1.2W E27 red	230	1.2	14	E27	45	75		25	25,000		any	
00331203	LED drip lamp G45 230V 1.2W E27 yellow	230	1.2	14	E27	45	75		25	25,000		any	
00331204	LED drip lamp G45 230V 1.2W E27 green	230	1.2	14	E27	45	75		25	25,000		any	
00331205	LED drip lamp G45 230V 1.2W E27 blue	230	1.2	14	E27	45	75		25	25,000		any	

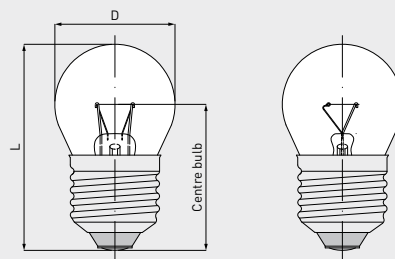
Lamps for special lighting purposes

Individual applications

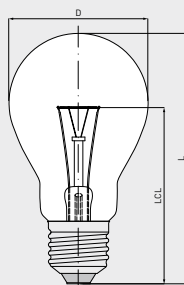
For special features, specific benefits and areas of use see page 207



Article no.	Description	V	W	Amperage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Luminous flux lm	Average life h	Individual life h	Burning position	PU
00845276	110V 15W BA15d T.20x53 clear	110	15		BA15d	20	53	Centre bulb	120	1,000			



Article no.	Description	V	W	Amperage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Luminous flux lm	Average life h	Individual life h	Burning position	PU
00845314	220V 15W E27 35x60 clear	220	15		E27	36	60	Centre bulb	30	1,000			
00845315	220V 15W E27 35x60 frosted	220	15		E27	36	60	Centre bulb	20	1,000			
00845316	220V 15W E27 30x49 frosted	220	15		E27	31	49	Centre bulb	20	1,000			

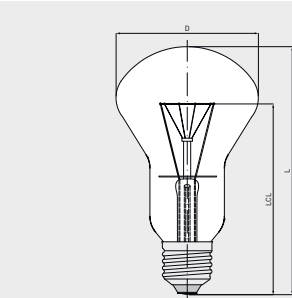


Article no.	Description	V	W	Amperage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Luminous flux lm	Average life h	Individual life h	Burning position	PU
00845310	230V 60W E27 300°C oven	230	60		E27	60	108	75	640	1,000			
00845309	230V 75W E27 300°C oven	230	75		E27	60	108	75	850	1,000			

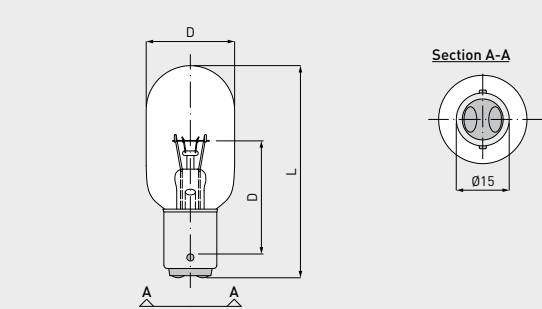
Lamps for special lighting purposes

Individual applications

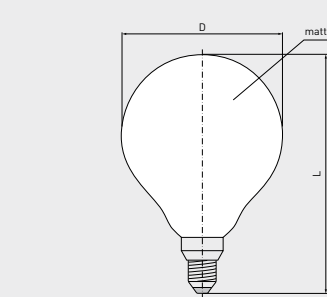
For special features, specific benefits and areas of use see page 207



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00845307	240V 200W E27 E75x130 clear	240	200		E27	75	130	100	2,000	8,000			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00845266	260V 40W BA15d/19	260	40		BA15d/19	25	64	32					



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00823132	220V 500W E27	220	500		E27	130	228						
00823133	220V 1000W E27	220	1,000		E27	130	228		20,800	100			

Signal lamps

Medical lamps

Photo, studio and stage lamps

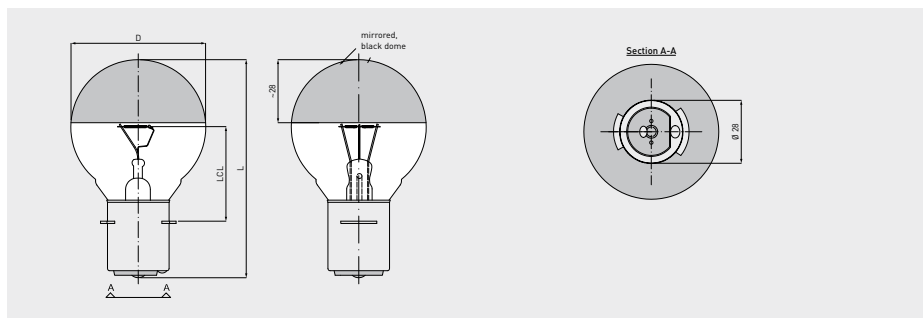
Domestic lamps

Special lighting purposes

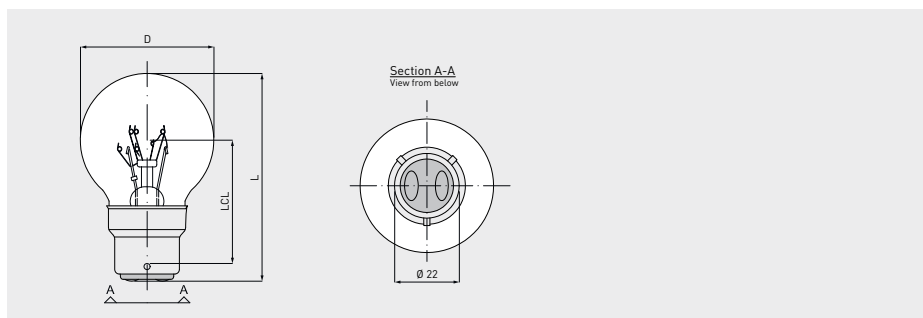
Lamps for special lighting purposes

Individual applications

For special features, specific benefits and areas of use see page 207



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00835317	115V 135W P28s S.60x90 kv	115	135		P28s	60	90	42					



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00845311	300V 11W B22 S.45x70 clear 30lm	300	11		B22s	45	70		30				

Safety voltage

In large constructions (buildings, tunnels) but also on ships, trains and aeroplanes orientation must be possible even when there is power failure. At least the escape routes must always be clearly marked and recognisable. For this reason it is compulsory in many countries to install an emergency lighting system with its own electrici-

ty supply, independent of the standard supply. In addition to illumination of escape routes, this system can also serve as anti-panic lighting and security lighting for hazardous workplaces. Back-up lighting is also part of safety voltage. It is aimed at guaranteeing that there is enough light so that work can continue for a while even

after a power cut. The best known example is the back-up lighting in operating theatres at hospitals.



Safety voltage

Lamps for orientation lights

Special features:

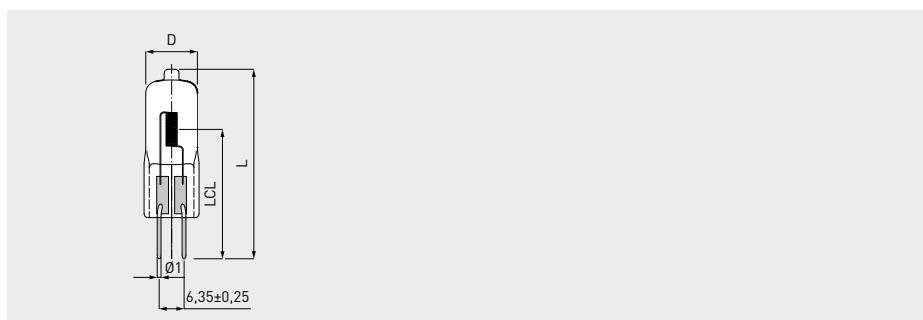
- low-voltage halogen lamps
- premium-quality inert gas filling

Specific benefits:

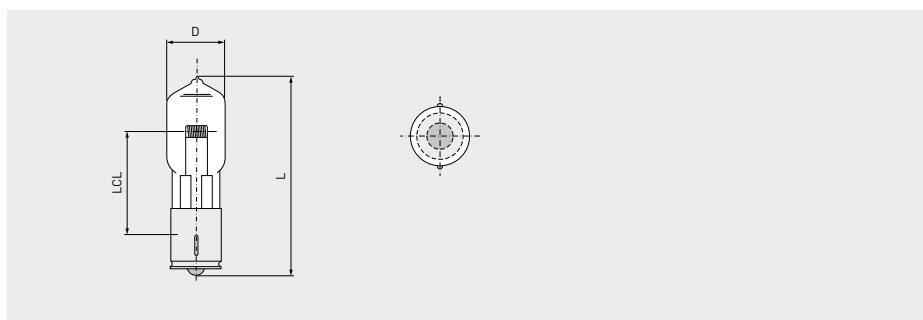
- high resistance to outside influences
- high resistance to shock and vibration

Areas of use:

- orientation lights
- ex lights



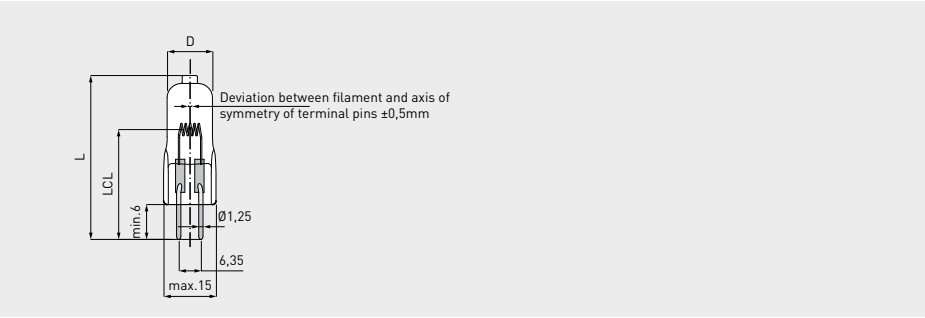
Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
8800024100	Halogen lamp 24V 100W	24	100		Gy6.35	12	44	30	2,200	1,000			
8802415000	Halogen lamp 24V 150W	24	150		Gy6.35	14	48	33	3,200	300			



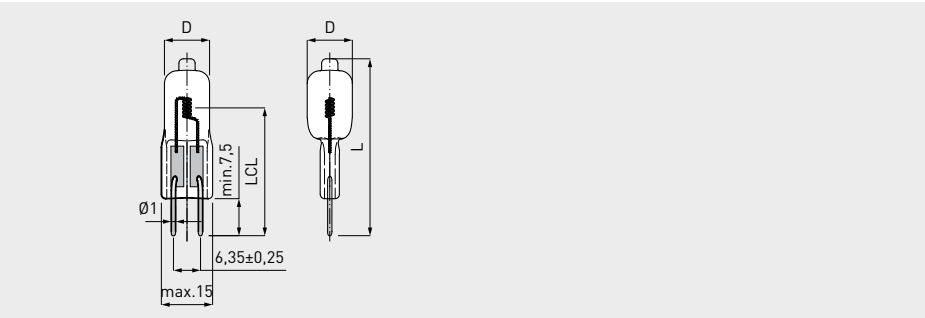
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8800024207	Halogen lamp 24V 20W BA 7	24	20		BA7	9	32	14	300	2,000			

Safety voltage
Lamps for orientation lights

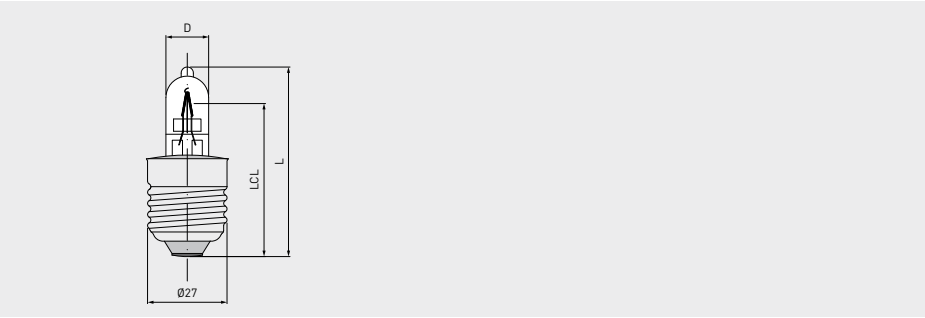
For special features, specific benefits and areas of use see page 223



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter	Total length	Light centre length	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
8800042150	Halogen lamp 42V 150W G 6.35	42	150		G6.35	15	47	31.5	2,800	1,000			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter	Total length	Light centre length	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
8800247500	Halogen burner 24V 75W G6.35	24	75		Gy6.35	11	44	30	1,200	1,000			
8800245000	Halogen lamp 24V 50W	24	50		Gy6.35	12	44	30	800	1,000			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter	Total length	Light centre length	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
8800247527	Halogen lamp 24V 75W E27	24	75		E27	13	64		1,200	1,000			

Signal lamps

Medical lamps

Photo, studio and stage lamps

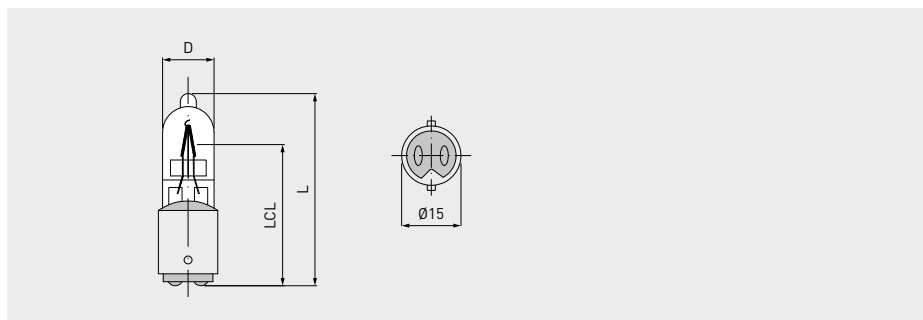
Domestic lamps

Lamps for safety voltage

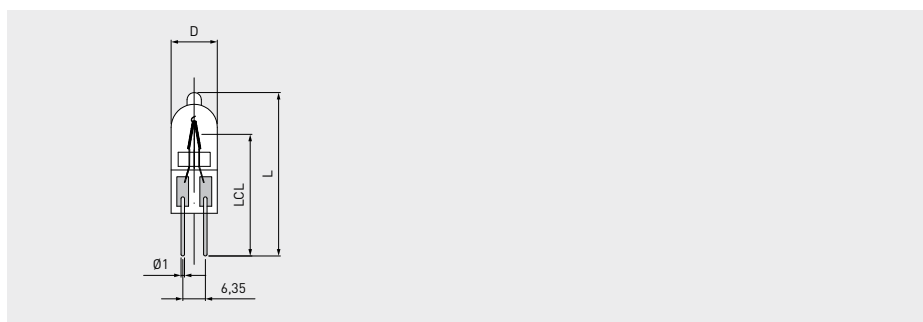
Safety voltage

Lamps for orientation lights

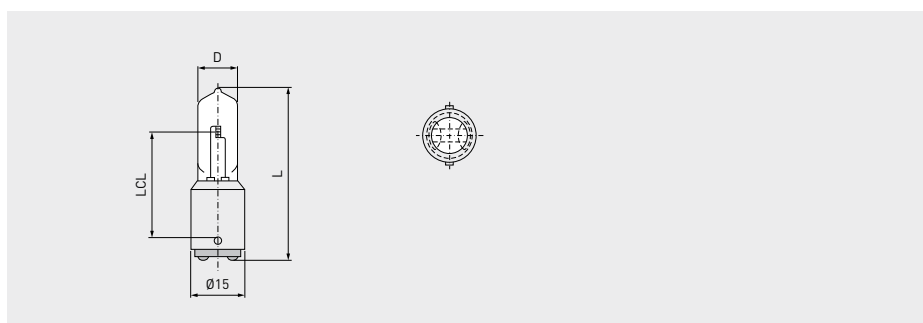
For special features, specific benefits and areas of use see page 223



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
8800427515	Halogen lamp 42V 75W BA 15d	42	75		BA15d	14	51		1,000	1,000			
8800425015	Halogen lamp 42V 50W BA 15d	42	50		BA15d	14	51		500	1,000			



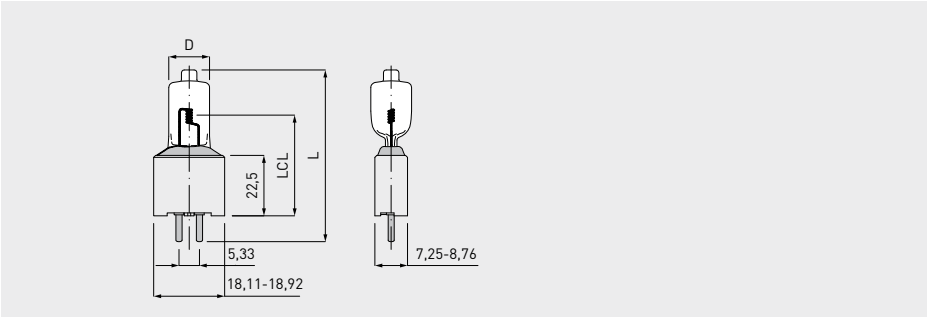
Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
8800427500	Halogenbrenner 42V 75W pin socket	42	75		Gy635	14	47		1,000	1,000			
8800425000	Halogen lamp 42V 50W pin socket	42	50		Gy6.35	14	47		500	1,000			



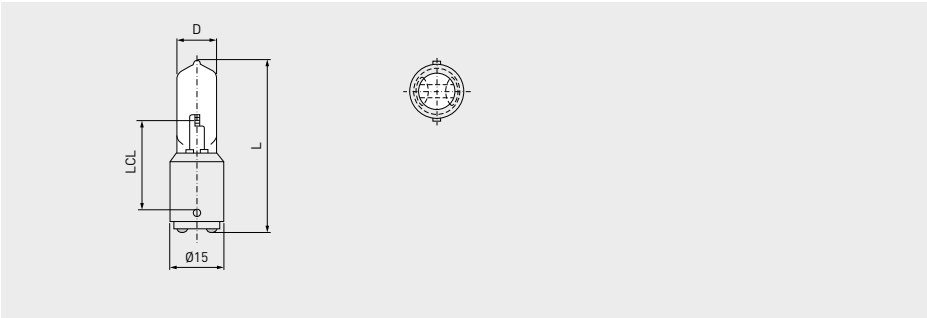
Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
8802415015	Halogen lamp 24V 150W BA 15d	24	150		BA15d	14	61	37	3,200	300			
884215015K	Halogen lamp 42V 150W BA15d ceramic	42	150		BA15d	15	61	38	2,800	1,000			

Safety voltage
Lamps for orientation lights

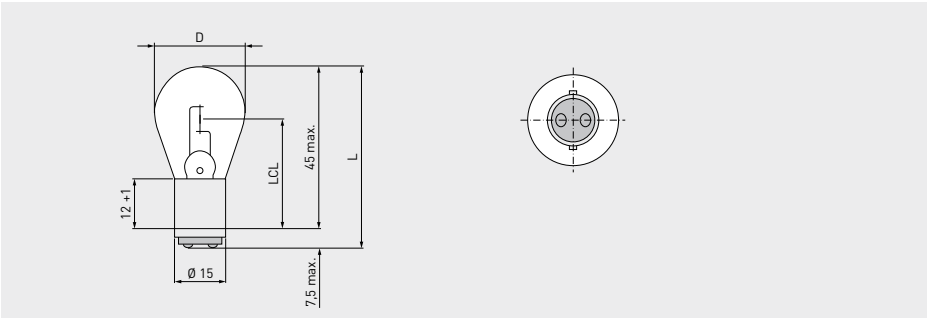
For special features, specific benefits and areas of use see page 223



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
880002470P	Halogen lamp 24V 70W ceramic plug G 5.3	24	70		G5.3	12	46	26	1,400	1,000			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi- nous f ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
880121015D	Halogen lamp 12V 10W BA 15d	12	10		BA15d	9	45	28	120	2,000			
8800245015	Halogen lamp 24V 50W BA 15d	24	50		BA15d	12	47	28	800	1,000			
8800247515	Halogen lamp 24V 75W BA 15d	24	75		BA15d	12	47	28	1,200	1,000			



Article no.	Description	V	W	Am- perage	Socket	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Lumi- nous f ux lm	Average life h	Individual life h	Burning position	PU
00844052	4.8V 8W BA15d	4.8	8		BA15d	26.5	52.5	31.8	120	260		S135	
00124500	12V 45W BA15s	12	45		BA15s	25.5	50	29.5	132	1,000			

Signal lamps

Medical lamps

Photo, studio and stage lamps

Domestic lamps

Lamps for safety voltage

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