DR. FISCHER
Group


DB

Oncoming light

There were already rail tracks in mines at the beginning of the 16th century. But there was still a long way to go before the advent of the railway. The first public trains did not set off until the Stockton and Darlington Railway in 1825. Within a few decades, a large rail network had come about.
It soon became no longer possible to control the ever-expanding rail traffic with simple means such as whistles or the waving of flags or lanterns. Complex signal systems were created which also had to be illuminated themselves since the trains also ran in poor visibility and eventually at night too (in Germany from 1852).

At this early stage, the railway companies in the different countries were developing very different signal systems. This development must still be taken into consideration today by providers of lamps for railway signals and railways.

DR FISCHER on the right track

Railway signal lamps have to function safely under heavy conditions such as vibrations caused by rail traffic. Furthermore, changing lamps has always involved a great deal of effort. Consequently the requirements made of railway signal lamps must be very high.

DR FISCHER Speziallampenfabrik GmbH manufactures a range of lamps for a variety of state or private railways. They all fulfil the extremely high demands made by the railway operators and the supervising authorities.

Signal lamps for the German railways (Deutsche Bahn)

For railway traffic signals

Special features:

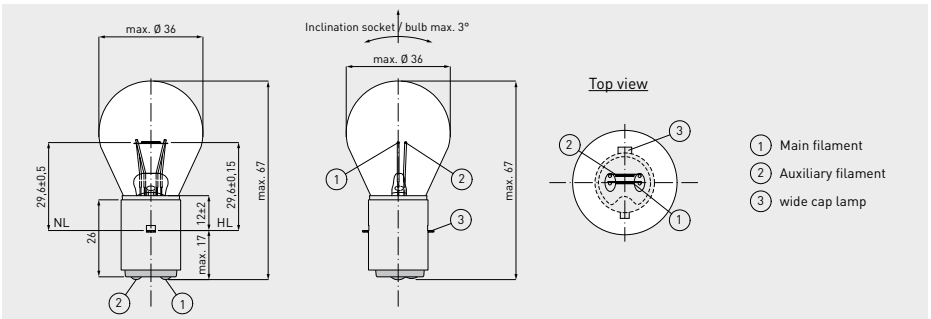
- fulfils the quality requirements of Deutsche Bahn AG
- dual-filament, excess-pressure technology lamps premium-quality inert gas filling
- precision of manufacture, minimum tolerances in the positioning of the filaments
- compact luminary

Specific benefits:

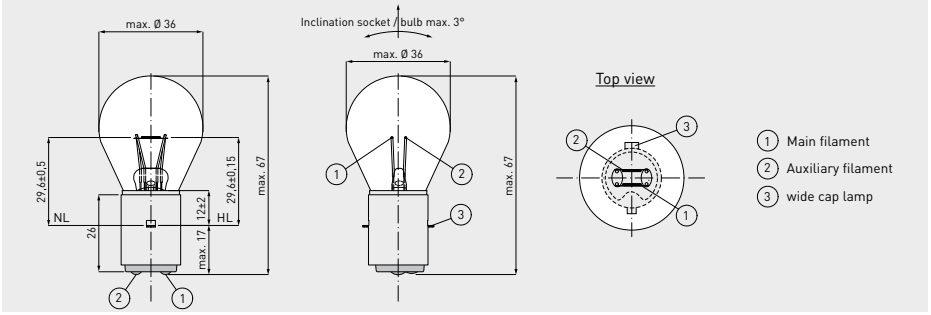
- switches to auxiliary filaments immediately if main filaments should malfunction
- must be replaced every 12 months (1-year lamps), reducing maintenance costs
- high resistance to shock and vibration
- corrosion-proof, nickel-plated cap and nickel-plated base contacts to ensure safe electrical contact

Areas of use:

- railway traffic signals (lamps with a transversal filament must be placed vertically to the luminary axis)



Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light center length mm	Luminous flux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842296	12V 10/10W BA20d	12	10/10	0.85	BA20d	36	67	29.6	140	600	420	S135	200
00842088	12V 20/20W BA20d	12	20/20	1.7	BA20d	36	67	29.6	350	600	420	S135	200
00842089	12V 30/30W BA20d	12	30/30	2.5	BA20d	36	67	29.6	520	600	420	S135	200
00842889	12V 30/30W BA20d JL	12	30/30	2.5	BA20d	36	67	29.6	520	8,800	6,200	S135	200
00842888	12V 20/20W BA20d 30x67 clear JL	12	20/20	1.7	BA20d	36	67	29.6	350	8,800	6,200	S135	200

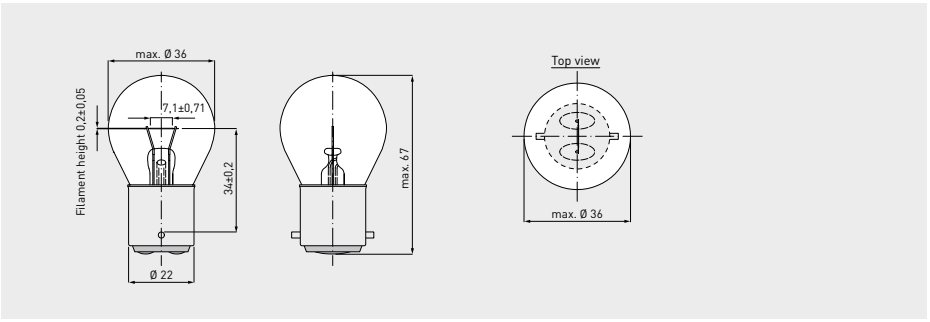


Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light center length mm	Luminous flux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842087	12V 10/10W BA20d	12	10/10	0.85	BA20d	36	67	29.6	140	600	420	S135	200

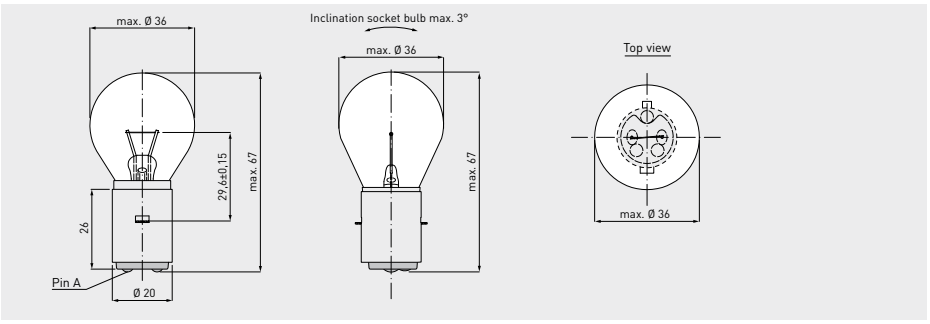
Signal lamps for the German railways (Deutsche Bahn)

For railway traffic signals

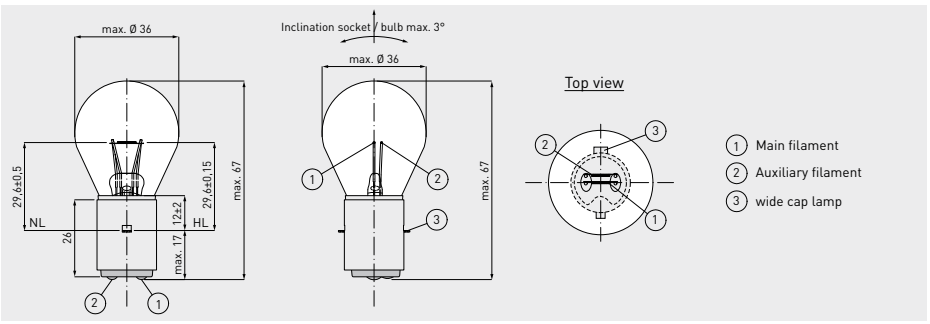
For special features, specific benefits and areas of use see page 42



Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light center length mm	Luminous lux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842084	12V 6W B22d/22	12	6	0.5	BA22d	36	67	34	50	600	420		



Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light center length mm	Luminous lux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842083	12V 6W BA20s	12	6	0.5	BA20s	36	67	29.6	55	600	420	S135	200
00842085	12V 6W BA20d	12	6	0.5	BA20d	36	67	29.6	55	600	420	S135	200
00842086	30V 15W BA20s	30	15	0.5	BA20s	36	67	29.6	170	600	420	S135	200



Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light center length mm	Luminous lux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842090	20V 7/7W BA 20d	20	7/7		BA20d	36	67	29.6	55	600		S135	
00842091	30V 15/15W BA20d	30	15/15	0.5	BA20d	36	67	29.6	220	600	420	S135	200
00842092	50V 25/25W BA20d	50	25/25	0.5	BA20d	36	67	29.6	380	600	420	S135	200

Signal lamps for the Austrian railways

For railway traffic signals

Special features:

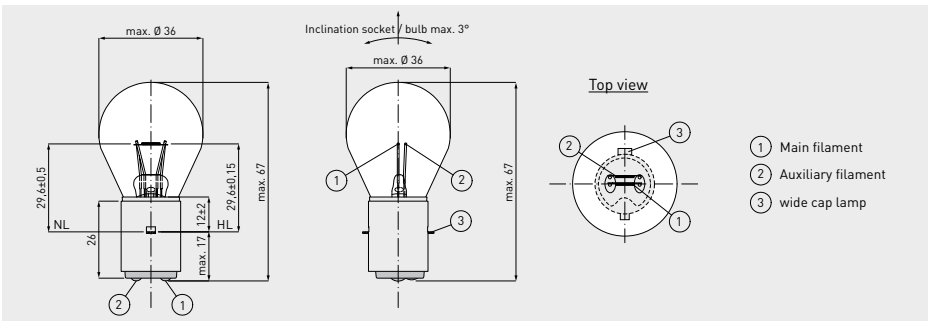
- excess-pressure technology lamps premium-quality inert gas filling
- precision of manufacture, minimum tolerances in the positioning of the filaments
- compact luminary

Specific benefits:

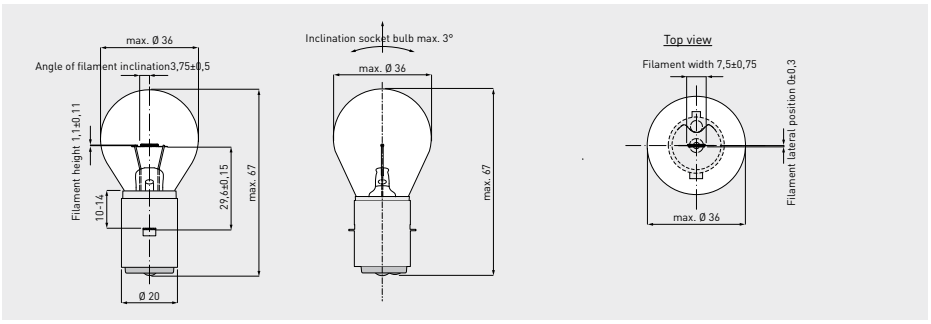
- switches to auxiliary filaments immediately if main filaments should malfunction
- must be replaced every von 12 months (1-year lamps), reducing maintenance costs
- high resistance to shock and vibration
- corrosion-proof, nickel-plated cap and nickel-plated base contacts to ensure safe electrical contact

Areas of use:

- Railway traffic signals



Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light center length mm	Luminous ▯ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842855	12V 35/35W BA20d JL 35x67	12	35/35		BA20d	36	67	29.6	570	8,800	6,200	S135	200



Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light center length mm	Luminous ▯ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842849	12V 35W BA20s JL 35x67 clear	12	35		BA20s	36	67	29.6	570	8,000	6,200	S135	200
00842549	12V 35W BA20s 35x67 clear	12	35		BA20s	36	67	29.6	510	1,700		S135	
00842550	12V 50W BA20s 35x67 clear	12	50		BA20s	36	67	29.6	815	1,700		S135	
00842850	12V 50W BA20s JL 35x67 clear	12	50		BA20s	36	67	29.6	710	8,000	6,200	S135	200

Signal lamps for the French railways

For railway traffic signals

Special features:

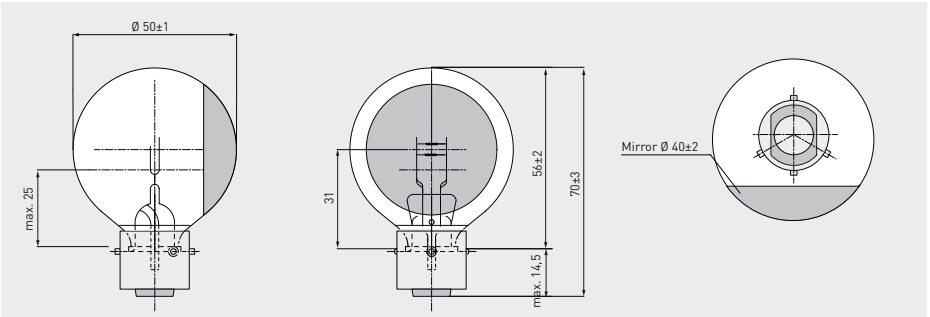
- fulfils the quality requirements of the French railway (SNCF)
- premium-quality inert gas filling
- precision of manufacture, minimum tolerances in the positioning of the filaments

Specific benefits:

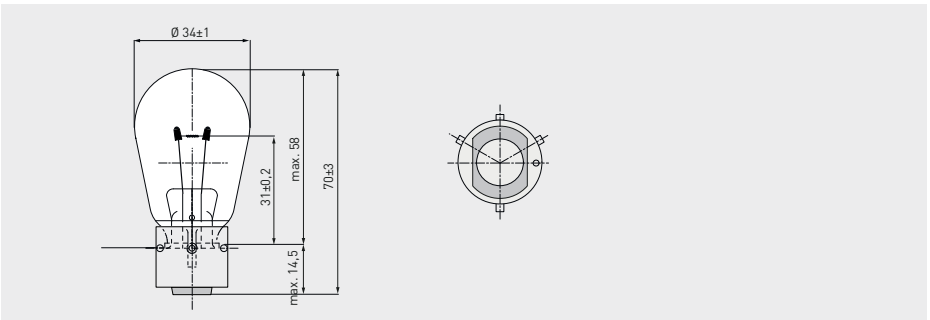
- long life
- high resistance to outside influences, shock and vibration
- corrosion-proof, nickel-plated cap and nickel-plated base contacts to ensure safe electrical contact

Areas of use:

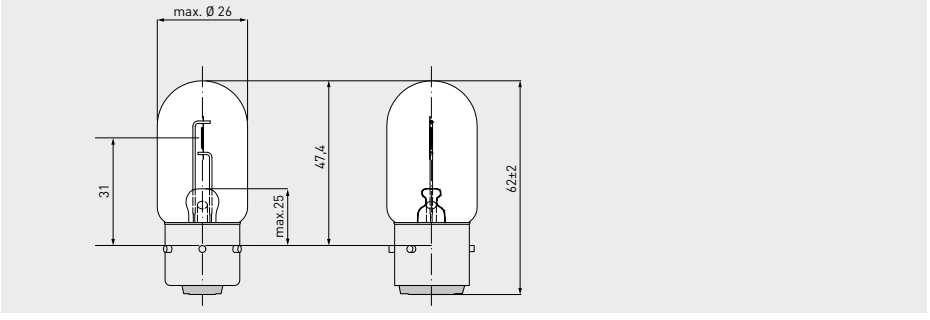
- railway traffic signals



Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light center length mm	Luminous flux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
9228 317 11622	6.5V 12.5/12.5W B21s-4 CL / SPH50	6.5	2 x 12.5		B21s-4	51	73	31	208	2,000			10



Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light center length mm	Luminous flux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
9228 311 11622	6.5V 25W B21s-4 CL / P34	6.5	25		B21s-4	35	73	31	200	4,000			10
9228 312 12822	7.2V 15W B21s-4 CL / P34	7.2	15		B21s-4	35	73	31	110	4,000			10

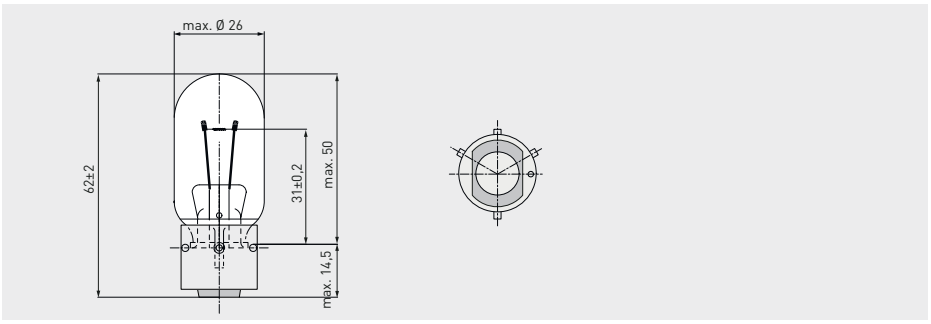


Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light center length mm	Luminous flux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
9210 557 14122	7.7V 6W B21s-4 CL / T25	7.7	6		B21s-4	26	64	31	33	4,000			10

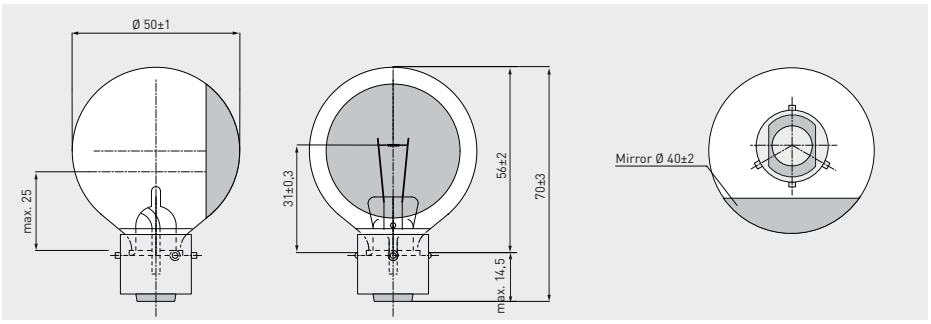
Signal lamps for the French railways

For railway traffic signals

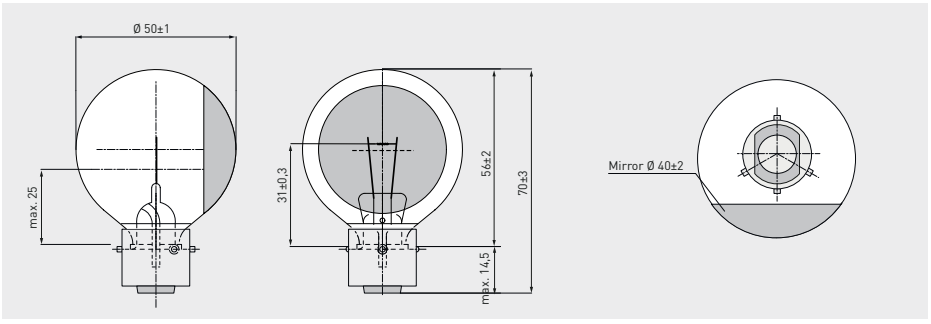
For special features, specific benefits and areas of use see page 45



Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light center length mm	Luminous lux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
9210 592 14522	8V 3W B21s-4 CL / T25	8	3		B21s-4	26	64	31	14	4,000			10



Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light center length mm	Luminous lux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
9228 319 19522	19V 40W B21s-4 CL /SPH50	19	40		B21s-4	51	73	31	360	2,000			10



Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light center length mm	Luminous lux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
9228 320 14422	19.4V 25W B21s-4 CL / SPH50	19.4	25		B21s-4	51	73	31	220	2,000			10

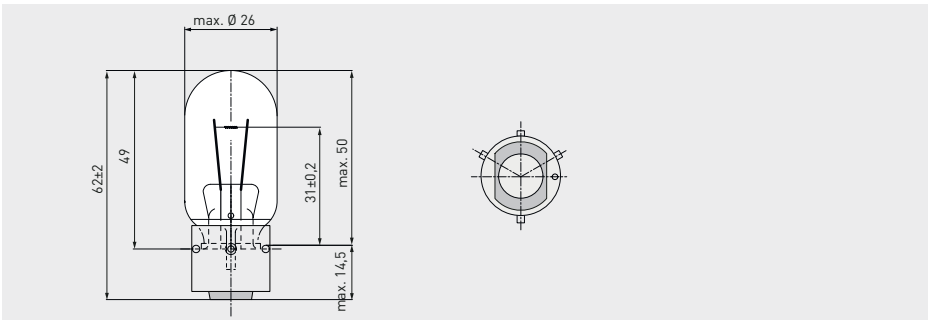
Signal lamps for the French railways

For railway traffic signals

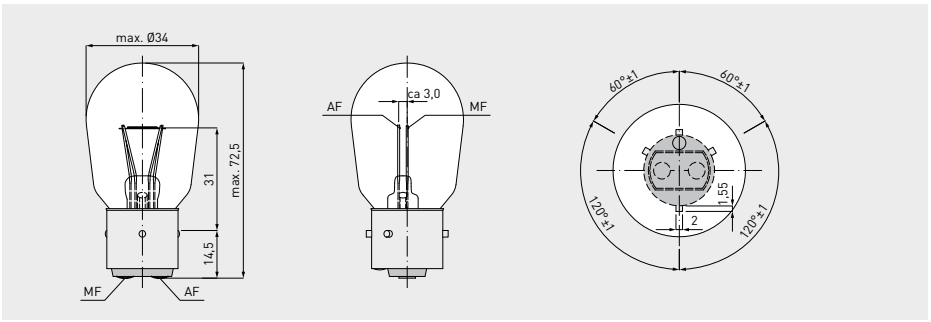
Special features:
- premium-quality inert gas filling
- precision of manufacture, minimum tolerances in the positioning of the filaments

Specific benefits:
- high resistance to outside influences, shock and vibration
- corrosion-proof, nickel-plated cap

Areas of use:
- railway traffic signals



Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light center length mm	Luminous ▯ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
9210 554 06922	4.3V 1.5W B21s-4 CL /T25	4.3	1.5	0.35	B21s-4	26	64	31	7	2,000			10
9210 549 05322	3.6V 0.8W B21s-4 CL /T25	3.6	0.8	0.22	B21s-4	26	64	31	3.6	2,000			10
9210 554 05322	3.6V 1.5W B21s-4 CL /T25	3.6	1.5	0.42	B21s-4	26	64	31	7	2,000			10



Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light center length mm	Luminous ▯ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00845257	12V 20/20W BA21d-4 34x72.5 clear	12	20/20		BA21d-4	34	72.5	31	150	5,000			

Signal lamps for the Italian railways

For railway traffic signals

Special features:

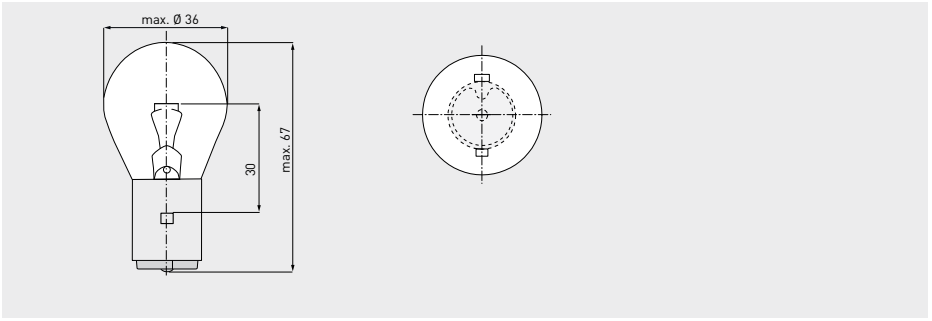
- fulfils the quality requirements of the Italian railway companies
- excess pressure technology, premium-quality inert gas filling
- precision of manufacture, minimum tolerances in the positioning of the filaments
- NEW: 12 V, 20 W, Ba20s now also available as a 1-year lamp (must be changed every 12 months)
- NEW: 12 V, 20 W, G4 halogen now also available in long life version

Specific benefits:

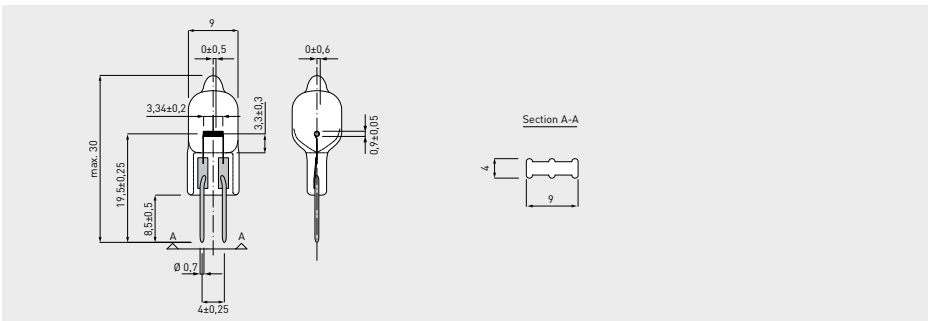
- long life
- must be replaced every 12 months (1-year lamps), reducing maintenance costs
- high resistance to shock and vibration
- corrosion-proof, nickel-plated cap and nickel-plated base contacts to ensure safe electrical contact
- for 12 V, 20 W, G4 halogen: virtually constant luminous flux for its entire life

Areas of use:

- Railway traffic signals (lamps with a transversal filament must be placed vertically to the luminary axis)



Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light center length mm	Luminous flux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842862	12V 20W Ba20s 6.000Std.	12	20		Ba20s	36	67	30	230	6,000	4,500		200
00842863	12V 20W Ba20s 8.800Std.	12	20		Ba20s	36	67	30	220	14,000	8,800		200

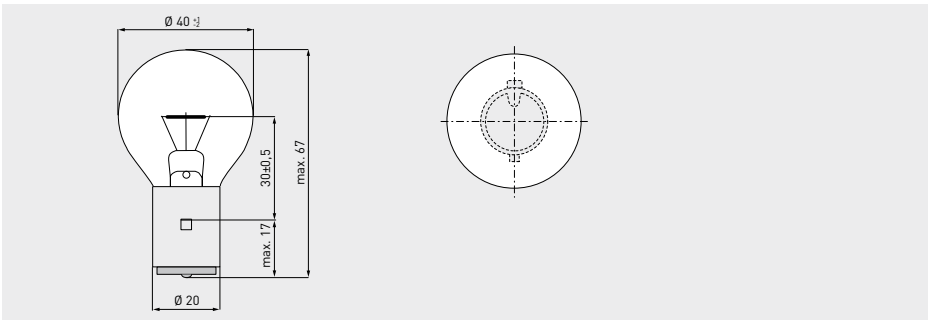


Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light center length mm	Luminous flux lm	Average life h	Individual life h (<3% malfunction)	Burning position	PU
00847091	12V 20W G4	12	20		G4	9	30	19.5	320	2,000	1,500		300
00847891	12V 20W G4	12	20		G4	9	30	19.5	320	4,500	3,000		300

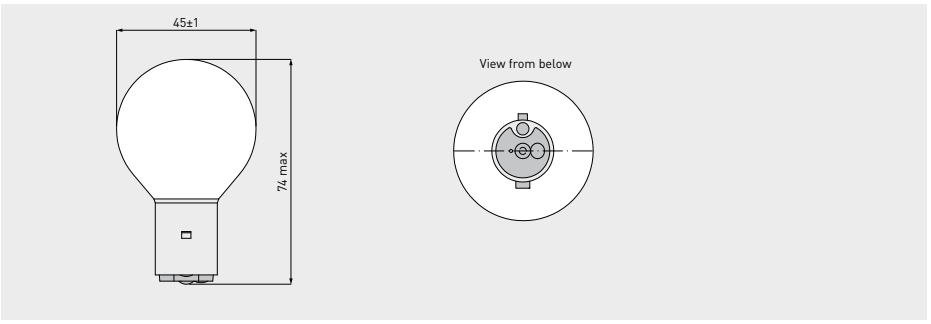
Signal lamps for the Italian railways

For railway traffic signals

For special features, specific benefits and areas of use see page 48



Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light center length mm	Luminous lux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842434	95V 25W BA20s	95	25		BA20s	40	67	30	200	1,500			



Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light center length mm	Luminous lux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00822435	125V 25W BA20s SATINIERT	125	25		BA20s	46	74	35	200	1,000			

Signal lamps for the British railways

For railway traffic signals

Special features:

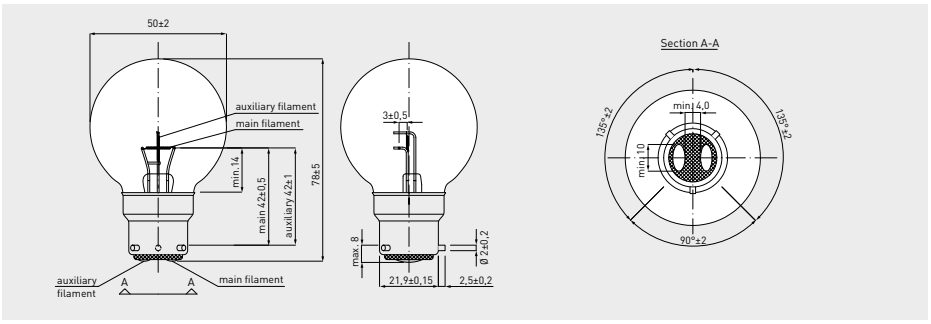
- dual-filament, excess-pressure technology lamps premium-quality inert gas filling
- precision of manufacture, minimum tolerances in the positioning of the filaments

Specific benefits:

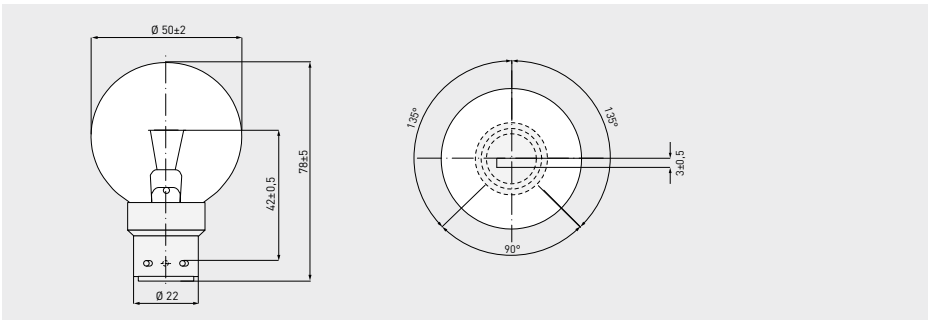
- switches to auxiliary filaments immediately if main filaments should malfunction
- must be replaced every 12 months (1-year lamps), reducing maintenance costs
- high resistance to outside influences, shock and vibration
- corrosion-proof, nickel-plated cap

Areas of use:

- railway traffic signals



Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Luminous lux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842432	12V 24/24W B22d-3	12	24/24		B22d-3	52	83	42	300	1,500			
00842832	12V 24/24W B22d-3	12	24/24		B22d-3	52	83	42	300	5,000			
00842833	12V 24/24W B22d-3	12	24/24		B22d-3	52	83	42	300	8,000			
00842522	12V 25W B22d-3	12	25		B22d-3	52	83	42	200	1,000			
00842440	50V 25/25W B22d-3	50	25/25		B22d-3	52	83	42	330	1,500			
00842840	50V 25/25W B22d-3	50	25/25		B22d-3	52	83	42	280	5,000			

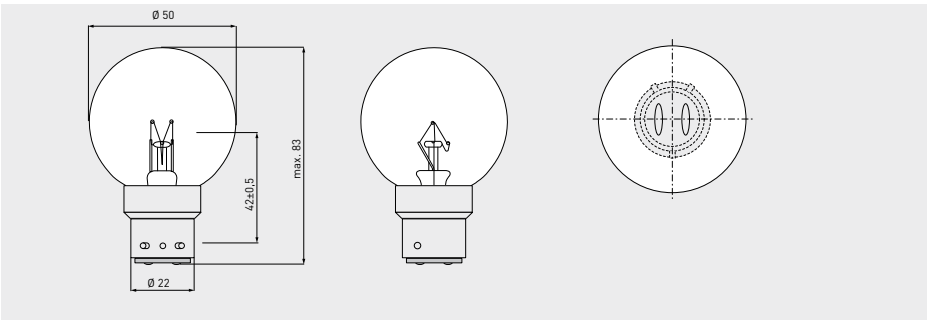


Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Luminous lux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842488	12V 24W B22d-3	12	24		B22d-3	52	83	42	290	1,000			

Signal lamps for the British railways

For railway traffic signals

For special features, specific benefits and areas of use see page 50



Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Luminous lux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842454	110V 25W B22d-3	110	25		B22d-3	50	83	42	122	1,000			
00842854	110V 25W B22d-3 50x83	110	25		B22d-3	50	83	42	122	8,000			

Signal lamps for the Belgian railways

For railway traffic signals

Special features:

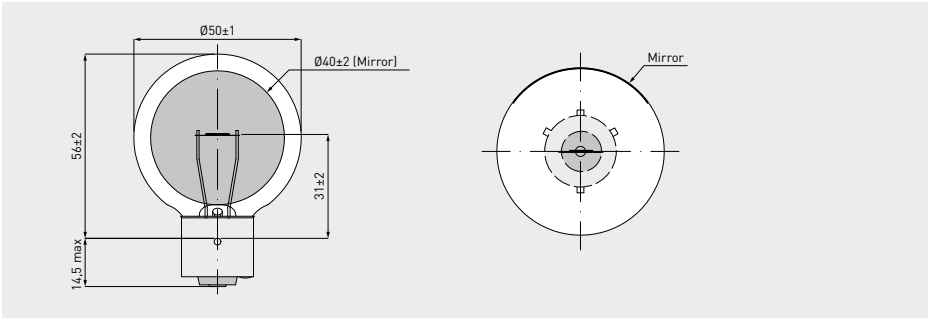
- fulfils the quality requirements of the Belgian railway (Infrabel)
- excess pressure technology premium-quality inert gas filling
- precision of manufacture, minimum tolerances in the positioning of the filaments

Specific benefits:

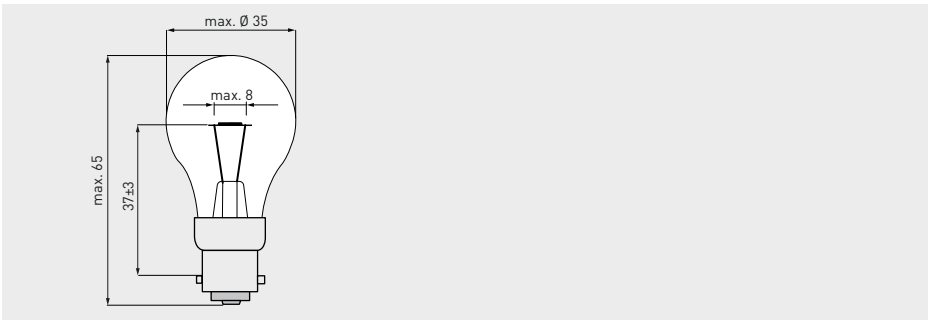
- long life
- high resistance to outside influences, shock and vibration

Areas of use:

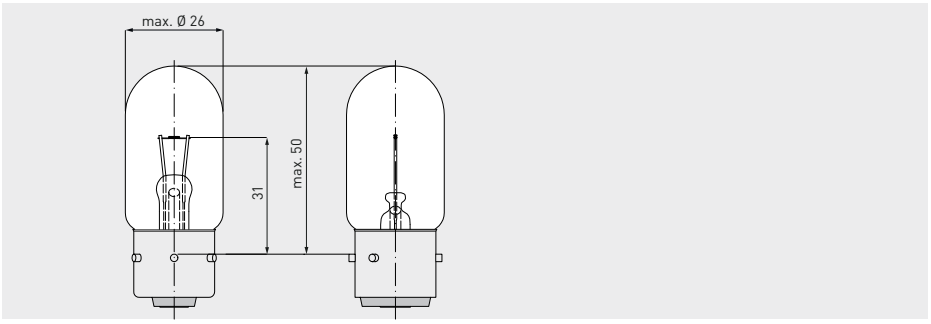
- Railway traffic signals



Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Luminous □ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842499	10V 20W BA21s4	10	20		BA21s-4	51	70	31	min. 200	1,000			



Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Luminous □ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842498	24V 5W BA15d/24x17	24	5		BA15d	35	65	37	min. 25	4,000			

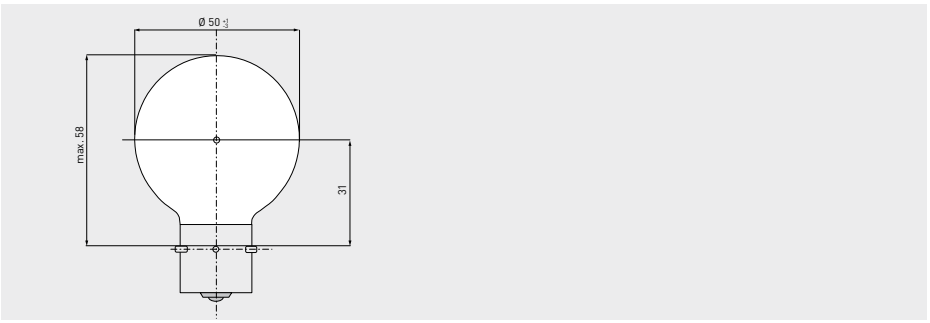


Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Luminous □ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842496	24V 5W BA21s4	24	5		BA21s-4	26	64	31	min. 27	4,000			

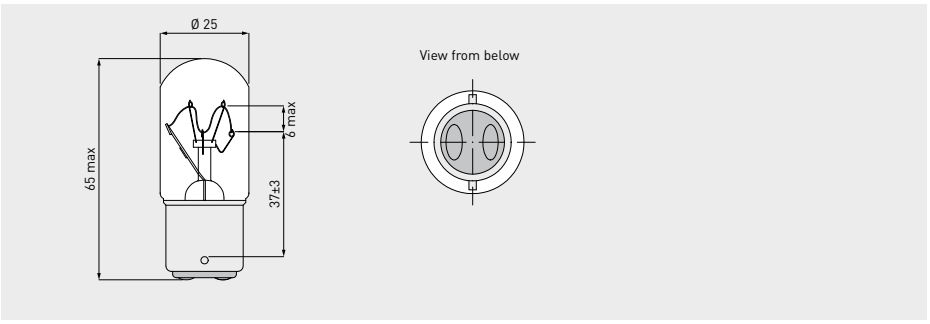
Signal lamps for the Belgian railways

For railway traffic signals

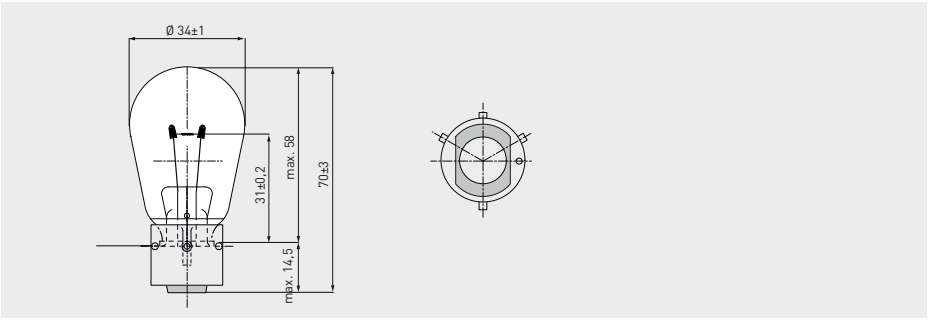
For special features, specific benefits and areas of use see page 52



Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Luminous ▯ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00843051	40V 20W BA21s4	40	20		BA21s-4	51	73	31	min. 140	4,000			



Article no.	Description	V	W	Amperage	Cap	Bulb diameter mm	Total length max. mm	Light centre length mm	Luminous ▯ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842497	110V 5W B22d/22	110	5		B22d	25	65	37	min. 24	1,000			



Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Luminous ▯ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842373	7.2V 15W B21s-4 CL / P34	7.2	15		B21s-4	35	73	31	110	4,000			10

Signal lamps for the Bulgarian railways

For railway traffic signals

Special features:

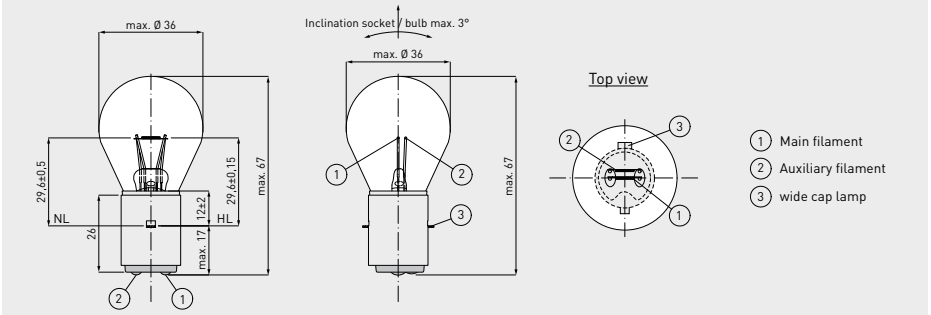
- excess pressure lamps with dual-filament technology
  premium-quality inert gas filling
- precision of manufacture, minimum tolerances in the positioning of the filaments
- compact luminary

Specific benefits:

- the auxiliary filaments kick in immediately if the main filaments malfunction
- high resistance to shock and vibration
- corrosion-proof, nickel-plated cap and nickel-plated base contacts to ensure safe electrical contact

Areas of use:

- Railway traffic signals



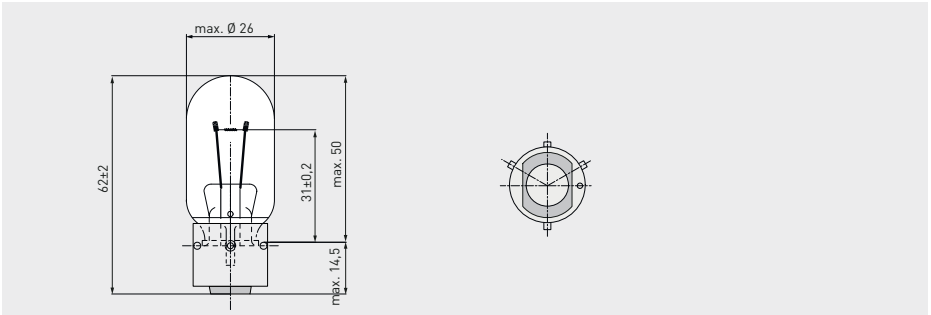
Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Luminous flux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842568	12V 15/15W BA20d/26 35x67 clear	12	15/15	1.25	BA20d	36	67	29.6	240	600	420		200

Further railway lamps
For railway traffic signals

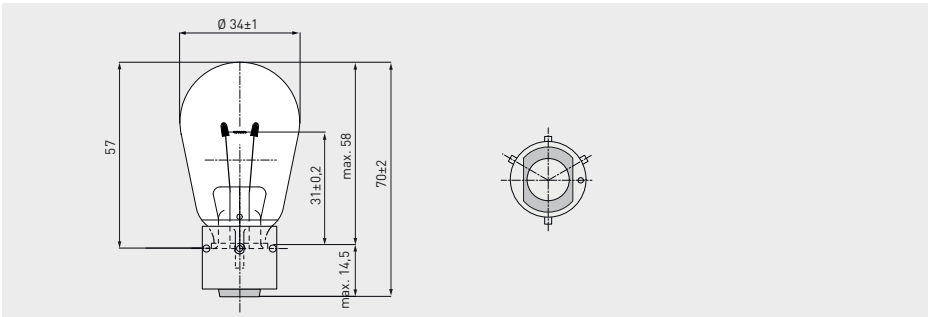
Special features:
- premium-quality inert gas filling
- precision of manufacture, minimum tolerances in the positioning of the filaments

Specific benefits:
- high resistance to outside influences, shock and vibration
- corrosion-proof, nickel-plated cap

Areas of use:
- Railway traffic signals



Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Luminous ▯ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
9245 223 14522	8V 2W Ba21s-4 CL / T25	8	2	0.25	B21s	26	64	31	9.3	4,000			10

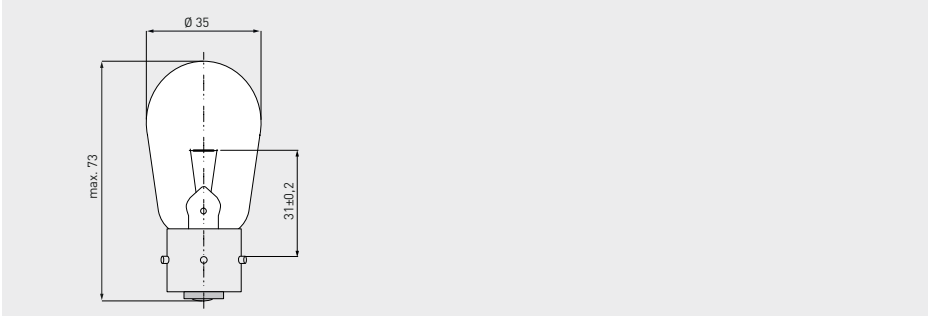


Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Luminous ▯ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
9228 313 14122	7.7V 6W Ba21s-4 CL / P34	7.7	6	0.78	B21s	35	72	31	33	4,000			10

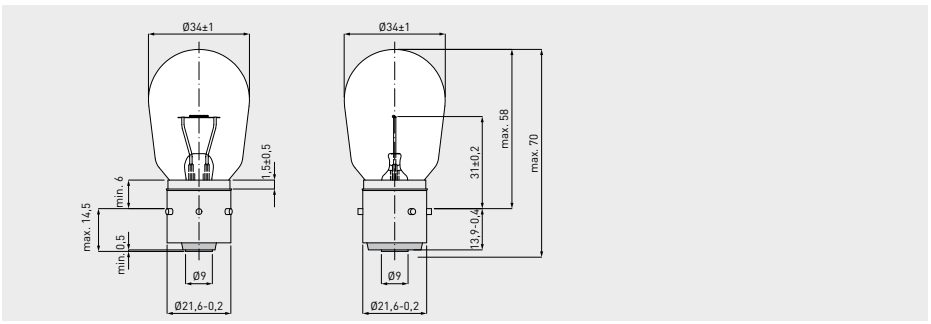
Further railway lamps

For railway traffic signals

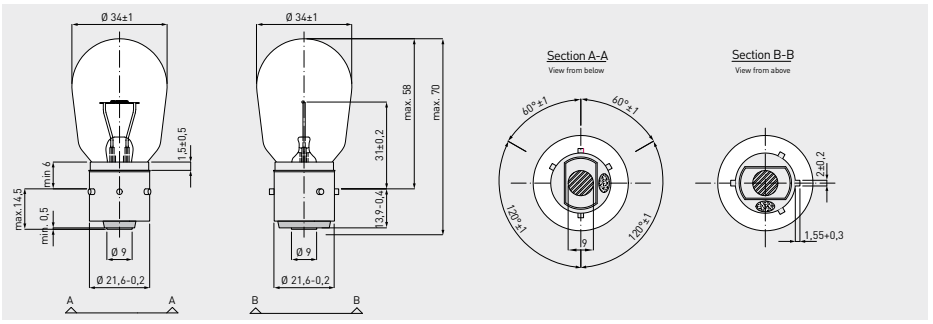
For special features, specific benefits and areas of use see page 55



Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Luminous ▯ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842535	24V 15W Ba21s-4 S.34x58 clear	24	15		B21s-4	35	73	31	170				
00946061	24V 20W Ba21s-4	24	20		B21s-4	35	73	31	110				



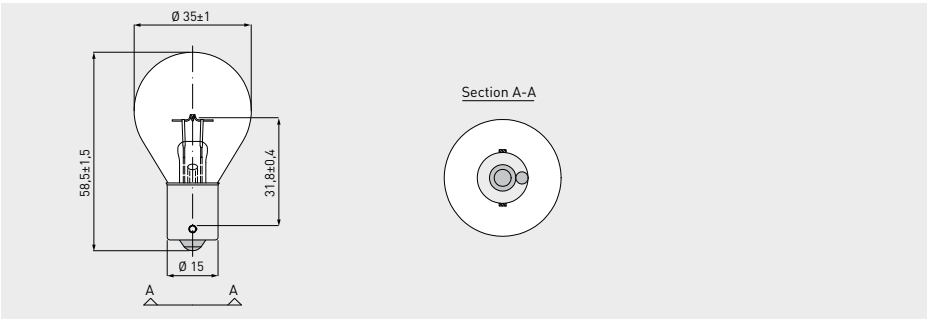
Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Luminous ▯ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842555	40V 20W BA21s4 P 34x73 clear	40	20		B21s-4	35	70	31	140	4,000			



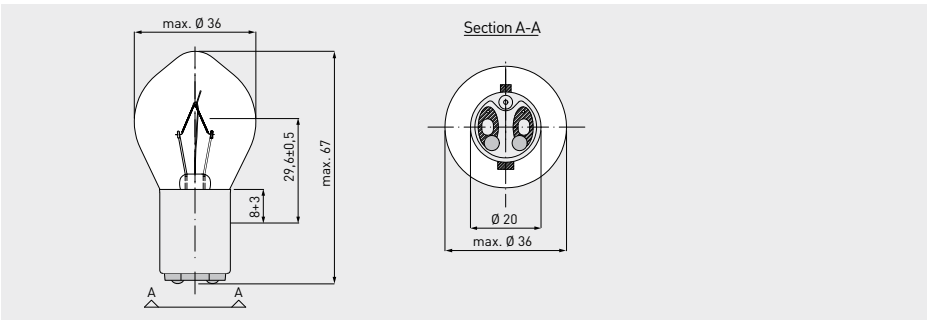
Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Luminous ▯ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842517	7.2V 25W Ba21s-4	7.2	25		Ba21s-4	35	70	31	180	4,000			

Further railway lamps
For railway traffic signals

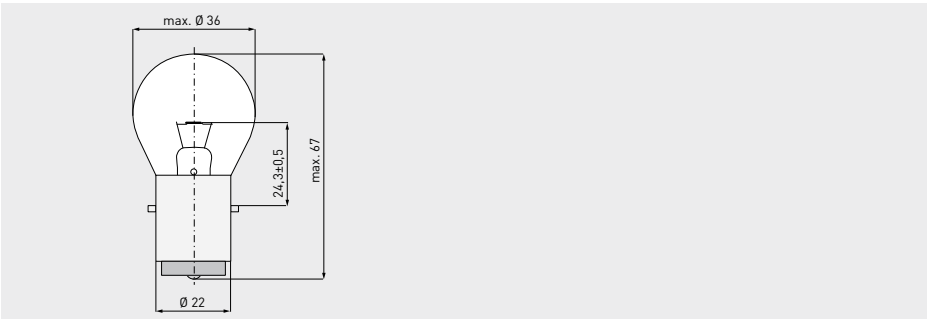
For special features, specific benefits and areas of use see page 55



Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Luminous lux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842495	10V 25W BA15s/19 CC6 S11	10	25		BA15s	36	60	31.8	380	1,000			



Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Luminous lux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842553	32V 25W BA20d/26 35x67 clear	32	25		BA20d	36	67	29.6	350	600			



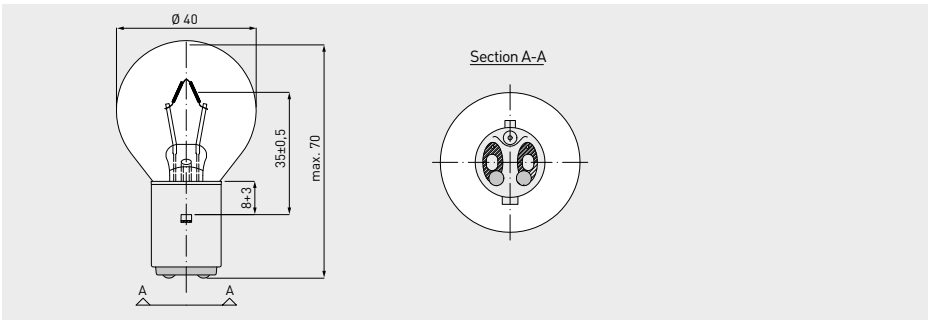
Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Luminous lux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842012	24V 35W BX22d/32	24	35		BX22d	36	67	24.3	540	500			

Further railway lamps

For railway traffic signals

For special features, specific benefits and areas of use see page 55

Article no.	Description	V	W	Amperage	Cap	Bulb diameter mm	Total length max. mm	Light centre length mm	Luminous flux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842557	24V 40W B22d/25x26 S.45x67.5	24	40		B22d	45	67.5		450	300			



Article no.	Description	V	W	Amperage	Cap	Bulb diameter mm	Total length max. mm	Light centre length mm	Luminous flux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842554	32V 100W BA20d/26 40x70 clear	32	110		BA20d	40	70	35	1,700	600			

Further dual-filament technology railway lamps

For railway traffic signals

Special features:

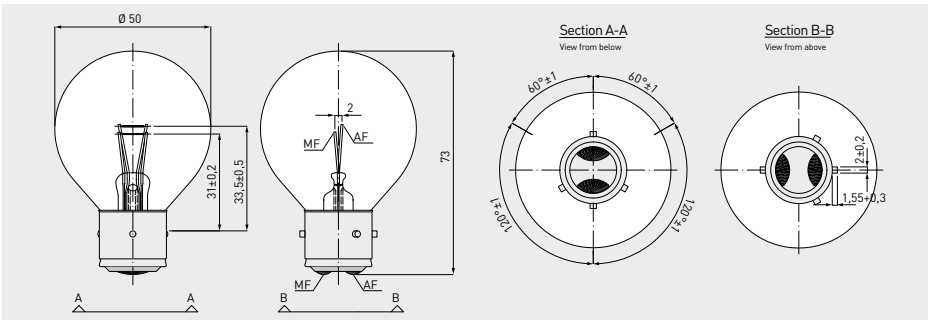
- Excess pressure lamps with dual-filament technology
  premium-quality inert gas filling
- precision of manufacture, minimum tolerances in the positioning of the filaments

Specific benefits:

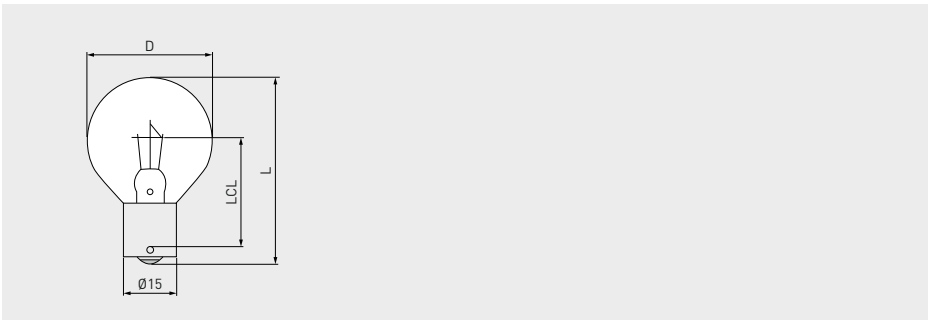
- must be replaced every 12 months (1-year lamps), reducing maintenance costs
- high resistance to outside influences, shock and vibration
- corrosion-proof, nickel-plated cap

Areas of use:

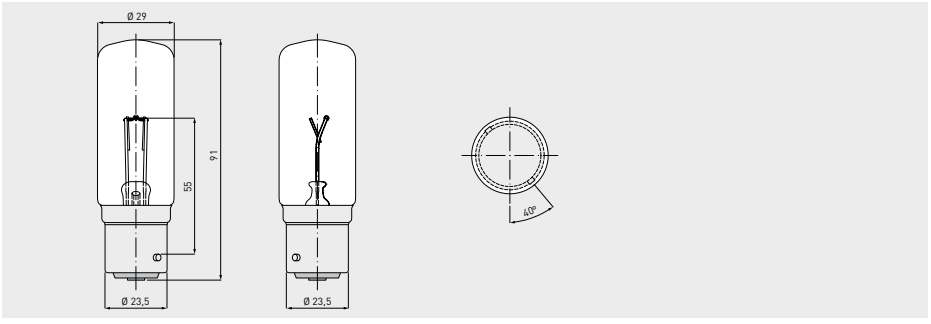
- Railway traffic signals



Article no.	Description	V	W	Amperage	Cap	Bulb diameter mm	Total length mm	Light centre length mm	Luminous flux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842573	7.5V 10/10W Ba21d-4 S.50x73 clear	7.5	10/10		Ba21d-4	50	73	33.5/31	85/85	2,000			



Article no.	Description	V	W	Amperage	Cap	Bulb diameter mm	Total length max. mm	Light centre length mm	Luminous flux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842401	10V 13/3.5W Ba15s	10	13/3.5		BA15s	35	58	32	221	1,000			

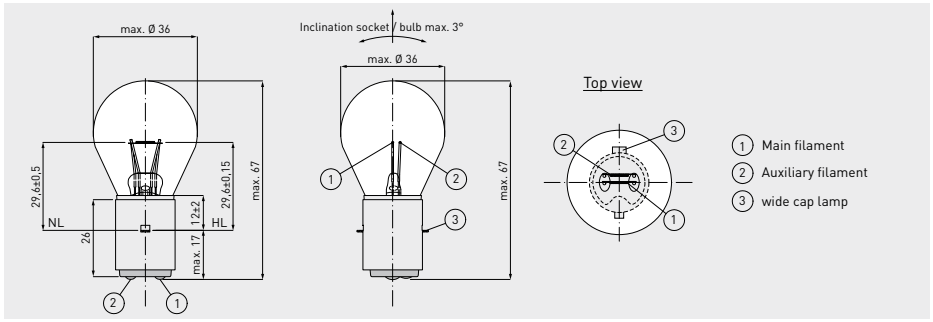


Article no.	Description	V	W	Amperage	Cap	Bulb diameter mm	Total length mm	Light centre length mm	Luminous flux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842403	10V 18/3.5W P24s	10	18/3.5		P24s	29	91	55	230	500			

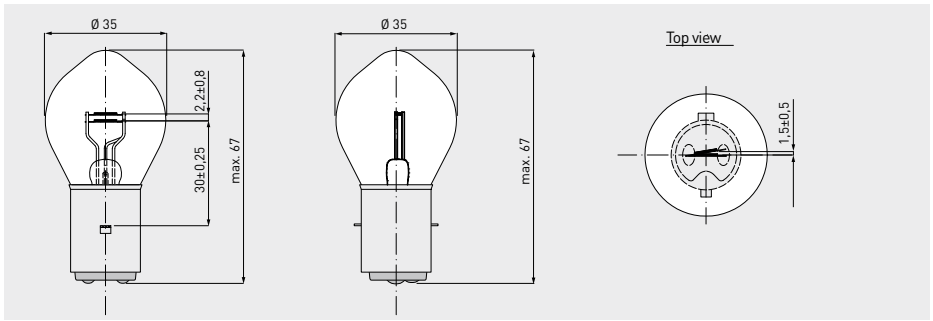
Further dual-filament technology railway lamps

For railway traffic signals

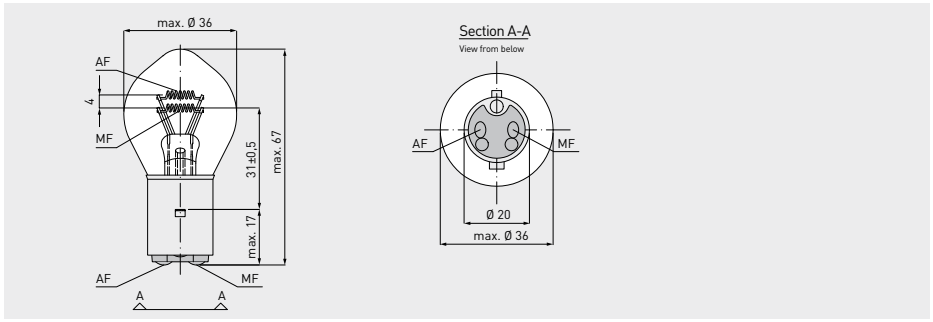
For special features, specific benefits and areas of use see page 59



Article no.	Description	V	W	Am-perage	Cap	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi-nous ▯ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842590	10.8V 20/20W BA20d 30x67 clear JL	10.8	20/20	1,8	BA20d	36	67	29.6	290	8,800		S135	



Article no.	Description	V	W	Am-perage	Cap	Bulb diameter mm	Total length max. mm	Light centre length mm	Lumi-nous ▯ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842570	40V 20/20W BA20d/26 35x67 clear	40	20/20	0.5	BA20d	35	67	30	225	600	420		

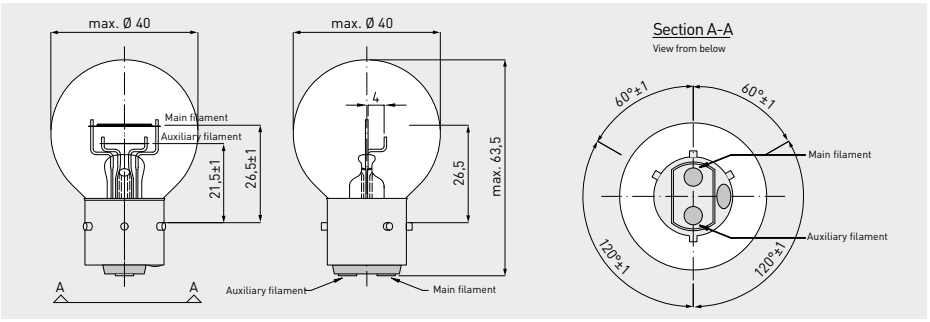


Article no.	Description	V	W	Am-perage	Cap	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Lumi-nous ▯ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842337	30V 35/35W BA20d	30	35/35		BA20d	36	67	31	480	200			
00842147	24V 60/60W BA20d (35mm- bulb)	24	60/60		BA20d	36	67	31	800	8,000	3,000		200
00842252	24V 35/35W BA20d	24	35/35		BA20d	36	67	31	565	1,000			

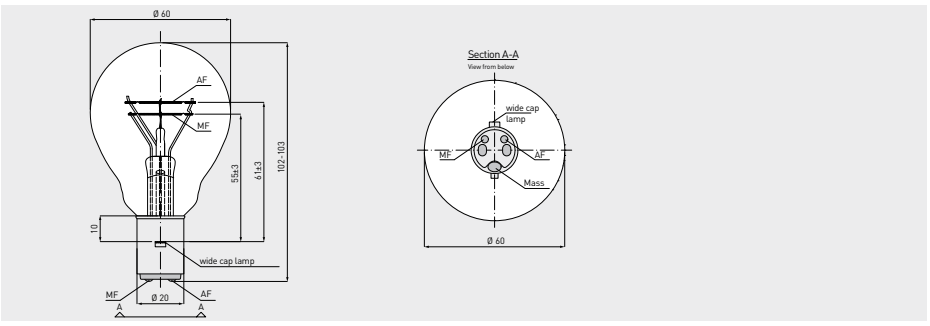
Further dual-filament technology railway lamps

For railway traffic signals

For special features, specific benefits and areas of use see page 59



Article no.	Description	V	W	Amperage	Cap	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
00844074	30V 50/18W BA21d4	30	50/18		BA21d-4	40	63.5	26.5/21.5	600/120				



Article no.	Description	V	W	Amperage	Cap	Bulb diameter mm	Total length mm	Light centre length mm	Luminous flux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842093	24V 60/60W BA20d (60mm- bulb)	24	60/60		BA20d	60	102-103	55/61	880	2,000			48

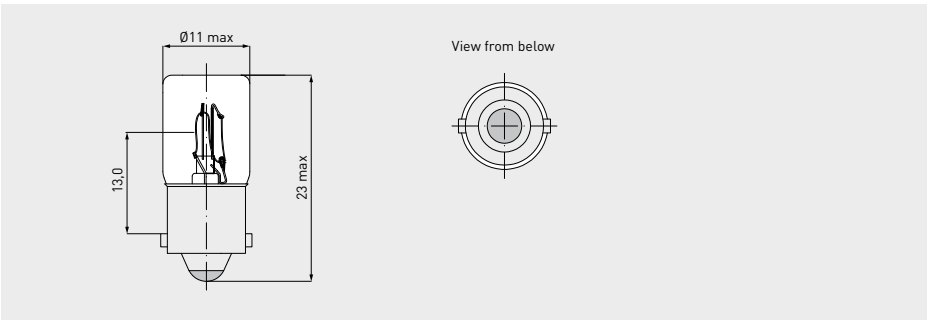
Standard wagon lamps
For railway vehicles

Standard wagon lamps
For railway vehicles

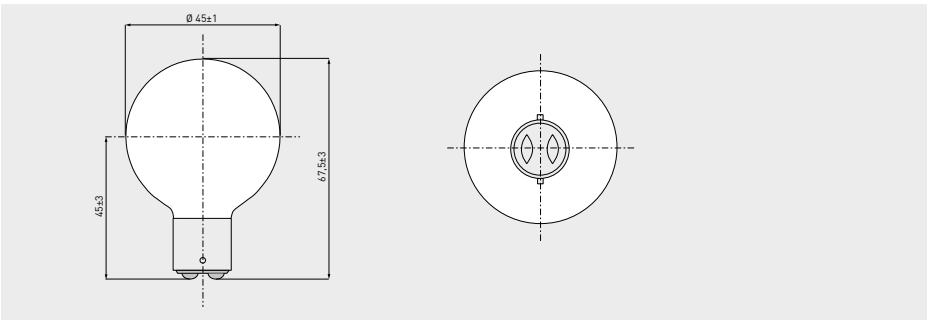
Special features:
- precision of manufacture, minimum tolerances in the positioning of the filaments
- compact luminary
- premium-quality inert gas filling
- available in transparent and matt versions

Specific benefits:
- very robust, high resistance to shock and vibration
- no flickering
- corrosion-proof, nickel-plated cap

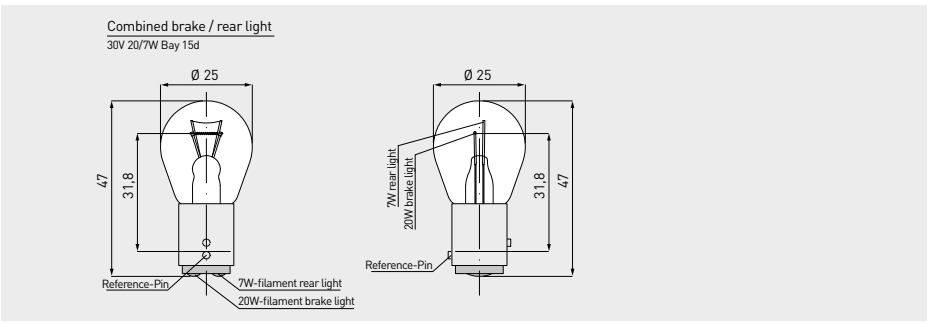
Areas of use:
- light signals in cabins and wagons
- reading lamps
- internal wagon lighting



Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Luminous □ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00845269	24V 3W BA9S/10	24	3		BA9S/10	11	23	13.0					



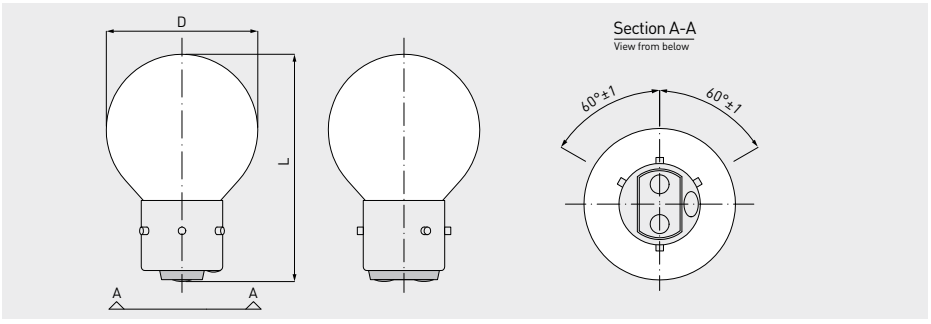
Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Luminous □ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00845305	24V 25W B22d S.45x67.5 clear	24	25		B22d	46	70.5	45	252	300			



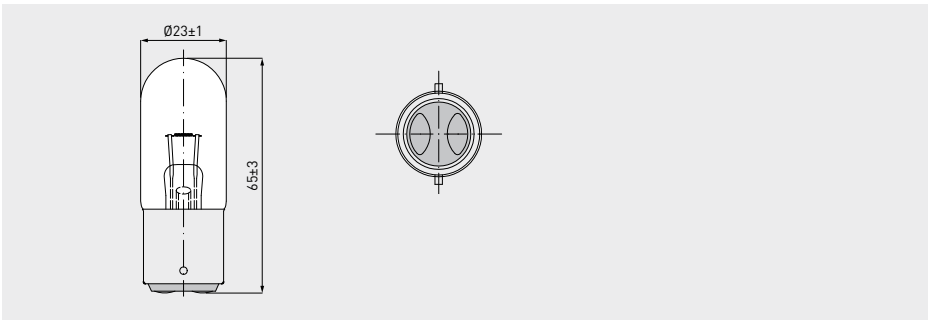
Article no.	Description	V	W	Amperage	Cap	Bulb diameter mm	Total length mm	Light centre length mm	Luminous □ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842313	30V 20/7W BAY15d	30	20/7		BAY15d	25	47	31.8	320/40				

Standard wagon lamps
For railway vehicles

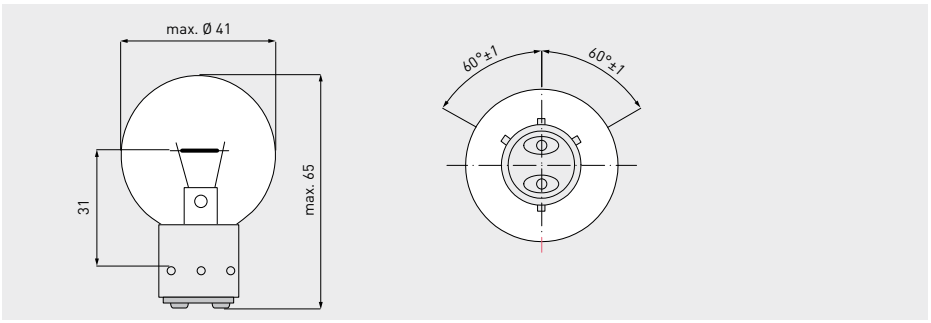
For special features, specific benefits and areas of use see page 63



Article no.	Description	V	W	Amperage	Cap	Bulb diameter D max. mm	Total length L max. mm	Light centre length mm	Luminous lux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00845289	24V 25W BA21d4 S40x60 matt	24	25		BA21d-4	41	63		250	500			
00845318	24V 60W BA21d4 45x67 matt	24	60		BA21d-4	45	67		725	500			
00842509	85V 40W BA21d-4 matt	85	40		BA21d-4	41	63		416	500			
00842504	30V 40W BA21d4 40x60 matt	30	40		BA21d-4	41	60		540	500			



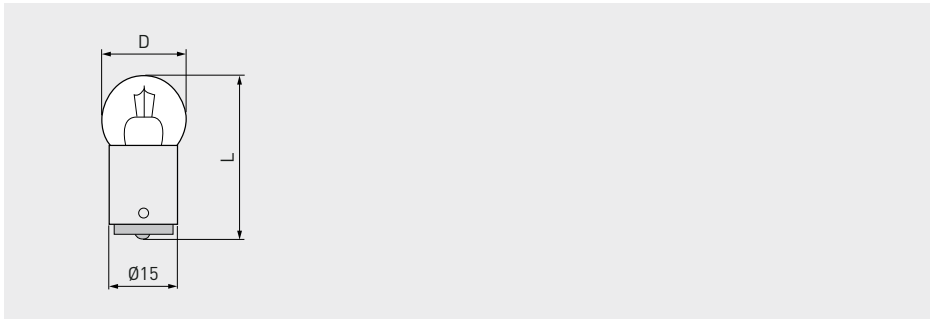
Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Luminous lux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00845300	24V 25W B22d/22 T.23x65 clear	24	25		B22d/22	24	68		243	800			



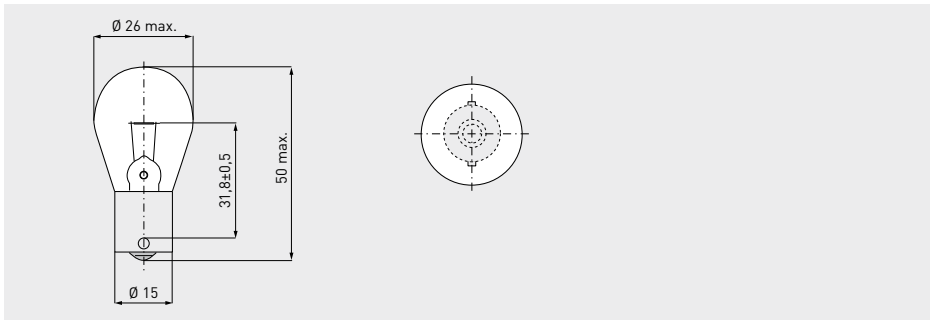
Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Luminous lux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842514	24V 36/36W BA21d4 S40x65 clear	24	36/36		BA21d-4	41	65	31	430	1,000			

Standard wagon lamps
For railway vehicles

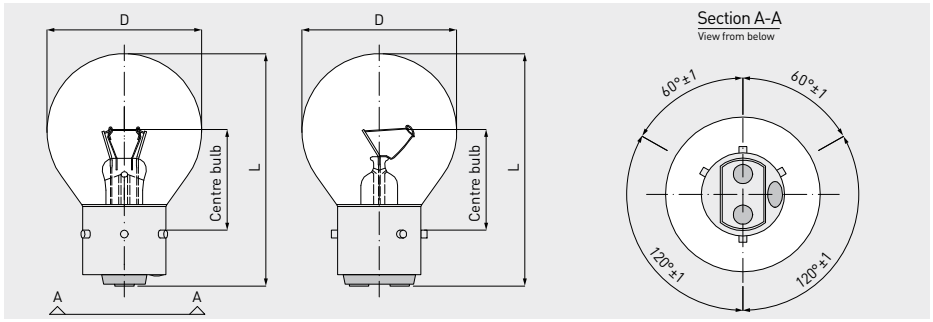
For special features, specific benefits and areas of use see page 63



Article no.	Description	V	W	Amperage	Cap	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
00845074	28V 5W BA15d	28	5		BA15d	18	35		30	1,500			
00845076	28V 12W BA15d	28	12		BA15d	18	35		130	1,500			



Article no.	Description	V	W	Amperage	Cap	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
00845262	28V 21W BA15s	28	21		BA15s	26	50	31.8	150	1,000			

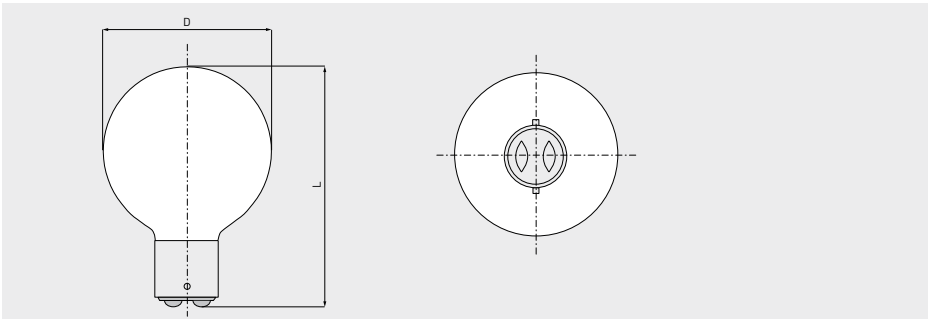


Article no.	Description	V	W	Amperage	Cap	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Luminous flux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00845288	28V 45W BA21d-4 S40x63.5 clear	28	45		BA21d-4	41	63.5		550	2,000			
00842534	85V 40W BA21d4 S 40x60 clear	85	40		BA21d-4	41	60		416	500			

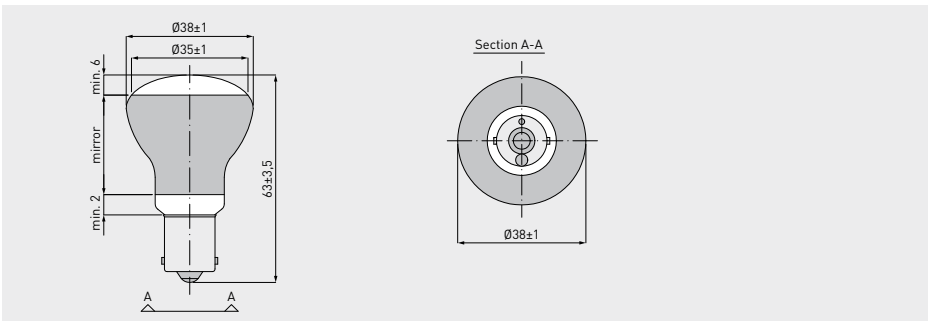
Standard wagon lamps

For railway vehicles

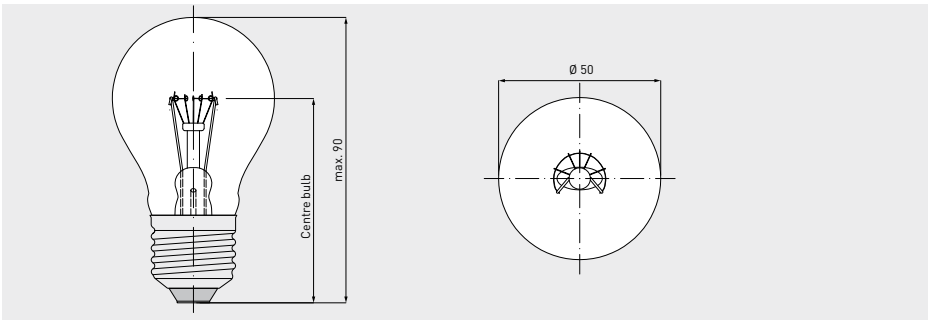
For special features, specific benefits and areas of use see page 63



Article no.	Description	V	W	Amperage	Cap	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Luminous lux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00845308	30V 40W B22d 45x67.5 matt	30	40		B22d	46	72.5		430	300			
00822588	85V 40W B22d/25x26 S45x67.5 matt	85	40		B22d	46	67.5		416	500			



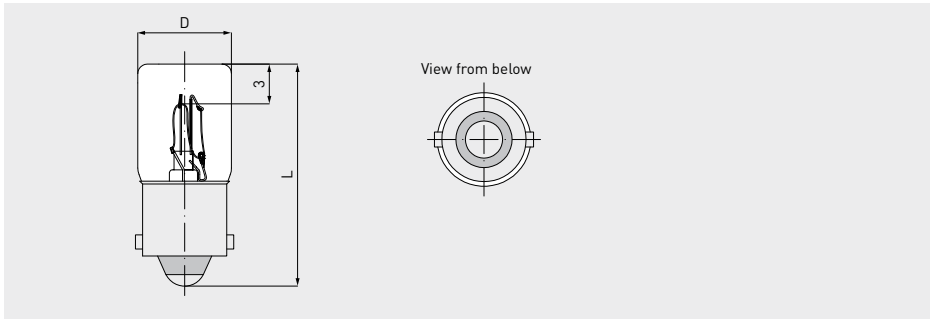
Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Luminous lux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
9245 646 22422	32V 20W BA15s/19 R12	32	20		BA15s	39	66.5	NA	NA	300			10



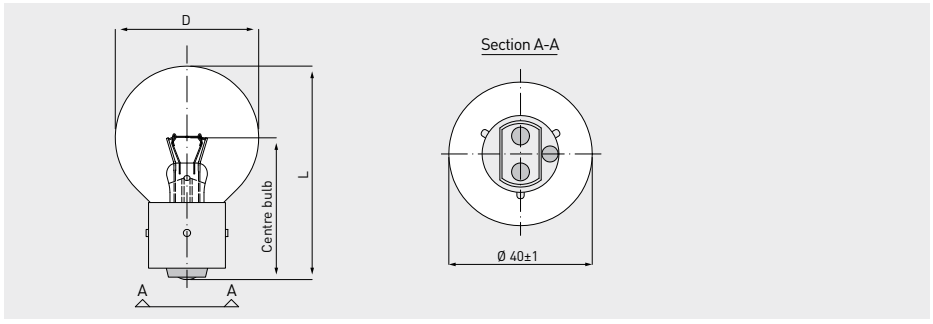
Article no.	Description	V	W	Amperage	Cap	Bulb diameter mm	Total length max. mm	Light centre length mm	Luminous lux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00825299	75V 40W E27 50x90 matt	75	40		E27	50	90		480	2,000			

Standard wagon lamps
For railway vehicles

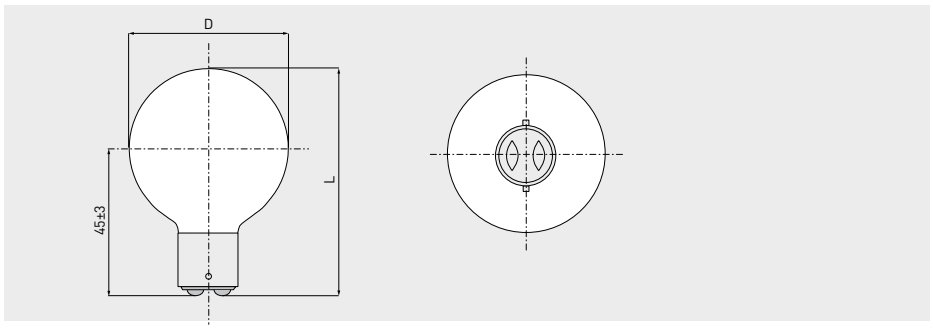
For special features, specific benefits and areas of use see page 63



Article no.	Description	V	W	Amperage	Cap	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Luminous lux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842503	85V 2.7W BA9s/10 10x28 clear	85	2.7		BA9s/10	11	28		7	1,000			
00845296	85V 2.7W BA9s/13 10x23 clear	85	2.7		BA9s/13	11	23		7	1,000			



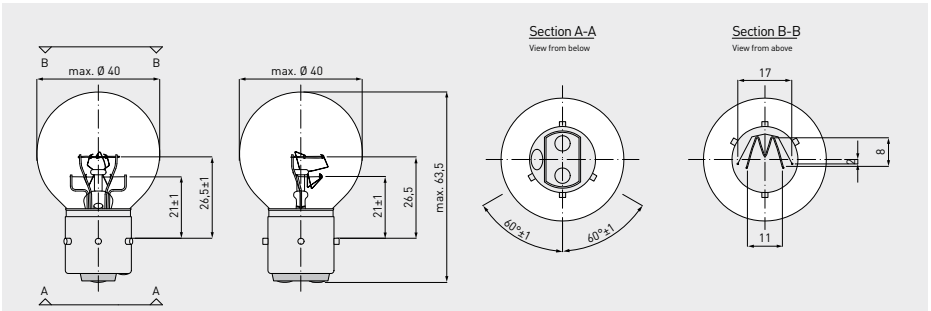
Article no.	Description	V	W	Amperage	Cap	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Luminous lux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842574	85V 40W BA21d-3 clear 40x60	85	40	0.47	BA21d-3	41	63		416	500			
00845294	85V 75W Ba21d-4 60x83 clear	85	75		BA21d-4	60	80		780	500			



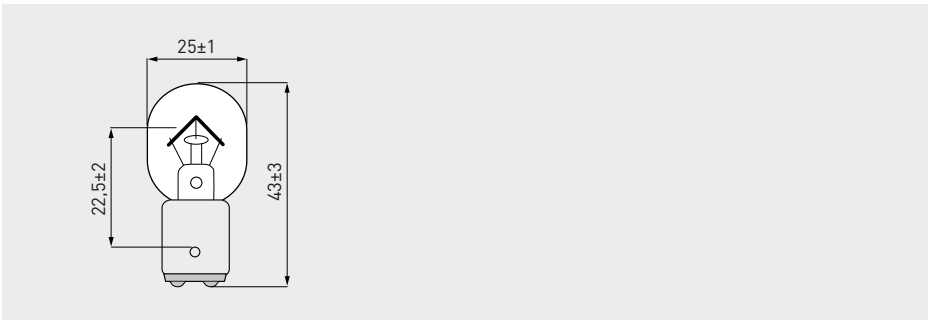
Article no.	Description	V	W	Amperage	Cap	Bulb diameter D max. mm	Total length L max. mm	Light centre length LCL mm	Luminous lux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842501	85V 25W B22d 45x67.5 clear	85	25		B22d	46	72	45	195	500			
00842536	85V 40W B22d/25x26 S45x67.5 clear	85	40		B22d	46	67.5	45	416	500			

Halogen wagon lamps
For railway vehicles

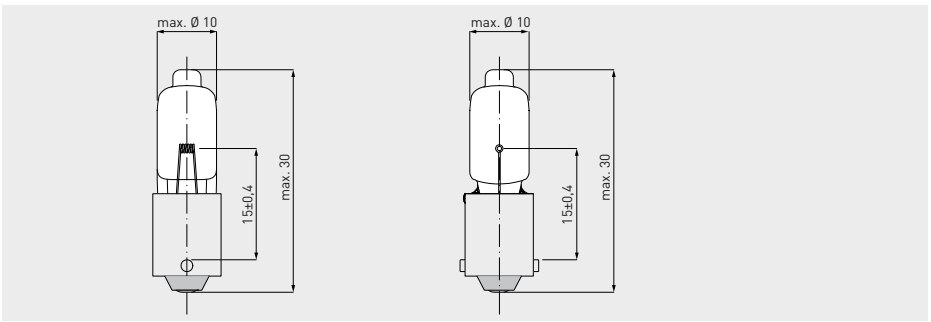
For special features, specific benefits and areas of use see page 63



Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Luminous □ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842502	85V 50/18W BA21d4	85	50/18	0.59/0,21	BA21d4	40	63.5	26.5/21	600/120	500/300			
00844075	95V 50/18W BA21d4	95	50/18		BA21d-4	40	63.5	26.5/21	600/120	500/300			
00843019	130V 50/18W BA21d-4	130	50/18		BA21d-4	40	63.5	26.5/21	450/60	500/300			



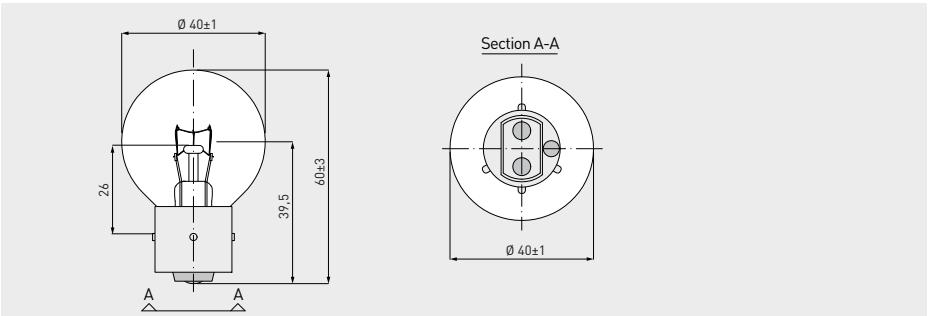
Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Luminous □ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842505	95V 10W BA15d	95	10	0.11	BA15d	26	46	22.5	77	500			



Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Luminous □ux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00847124	28V 11.5W BA9s/13 Halogen	28	11.5	0.41	BA9s	10	30	15	160	2,000			

Standard wagon lamps
For railway vehicles

For special features, specific benefits and areas of use see page 63



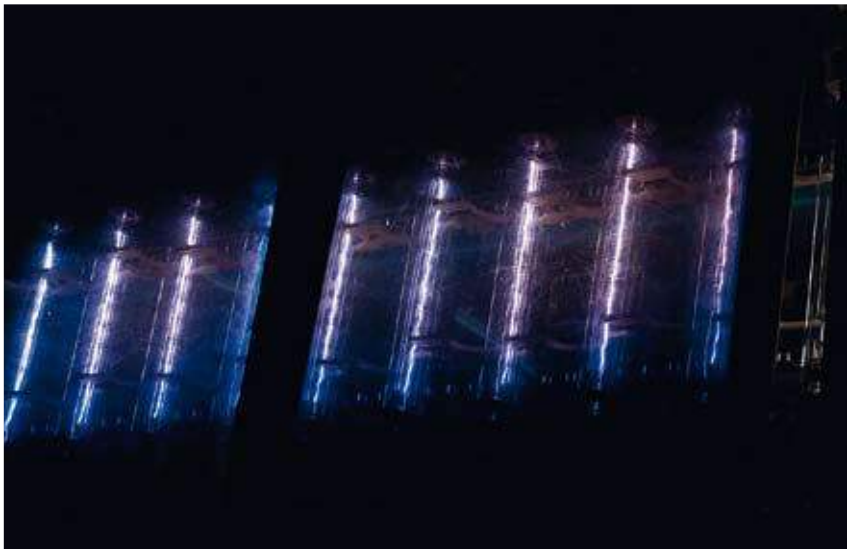
Article no.	Description	V	W	Amperage	Cap	Bulb diameter max. mm	Total length max. mm	Light centre length mm	Luminous flux lm	Average life h	Individual life h (<2% malfunction)	Burning position	PU
00842506	110V 40W BA21d-4	110	40	0.36	BA21d-4	41	63	26	400	500			
00845306	130V 50W Ba21d-4 40x60 clear	130	50	0.38	BA21d-4	41	63	26	600	1,000			











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