

## Accessories

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**Filament bulbs** Ba 9s base Catalog No. of current: AC/DC. A lamp changing tool is required for changing bulb.

Description					Catalog No.	Ref. Code
Rated voltage V	Rated current mA	Rated output W	Service life h	Lumiance mcd		
6	200	1.2	10 000	350	<b>5911 086-11</b>	5911 086-11
12	100	1.2	10 000	230	<b>5911 086-12</b>	5911 086-12
24	50	1.2	10 000	280	<b>5911 086-13</b>	5911 086-13
30	40	1.2	10 000	250	<b>5911 086-4</b>	5911 086-4
48	42	2	6 000	500	<b>5911 086-5</b>	5911 086-5
60	20	1.2	5 000	190	<b>5911 086-14</b>	5911 086-14
110	18	2	7 500	250	<b>5911 086-7</b>	5911 086-7
130	15	2	7 500	120	<b>5911 086-15</b>	5911 086-15

### LEDs

With one diode chip mounted on a Ba 9s base. Choose the same color for the LED and the lamp cap or else use a clear lamp cap.

For white light use white LED with clear lamp cap. At DC the lamp base have to be connected to cathode (-) and the bottom contact to anode (+).

Color	Rated current mA	Wave-length nM	Lumiance mcd	Catalog No.	Ref. Code
<b>Rated voltage 12 V, DC</b> Service life >50 000 h					
Red	15	630	250	<b>KA2-2011</b>	1SFA 616 921 R2011
Green	15	525	1000	<b>KA2-2012</b>	1SFA 616 921 R2012
Yellow	15	592	250	<b>KA2-2013</b>	1SFA 616 921 R2013
Blue	15	470	450	<b>KA2-2014</b>	1SFA 616 921 R2014
White	15	x=0.31 y=0.32	600	<b>KA2-2015</b>	1SFA 616 921 R2015
<b>Rated voltage 24 V, (AC)/DC</b> Ⓢ Service life >50 000 h					
Red	15	630	250	<b>KA2-2021</b>	1SFA 616 921 R2021
Green	15	525	800	<b>KA2-2022</b>	1SFA 616 921 R2022
Yellow	15	592	250	<b>KA2-2023</b>	1SFA 616 921 R2023
Blue	15	470	400	<b>KA2-2024</b>	1SFA 616 921 R2024
White	15	x=0.31 y=0.32	500	<b>KA2-2025</b>	1SFA 616 921 R2025
<b>Rated voltage 48 V, (AC)/DC</b> Ⓢ Service life >50 000 h					
Red	12	630	200	<b>KA2-2041</b>	1SFA 616 921 R2041
Green	12	525	1700	<b>KA2-2042</b>	1SFA 616 921 R2042
Yellow	12	592	240	<b>KA2-2043</b>	1SFA 616 921 R2043
Blue	12	470	720	<b>KA2-2044</b>	1SFA 616 921 R2044
White	12	x=0.31 y=0.32	1200	<b>KA2-2045</b>	1SFA 616 921 R2045
<b>Rated voltage 60 V, (AC)/DC</b> Ⓢ Service life >50 000 h					
Red	10	630	160	<b>KA2-2051</b>	1SFA 616 921 R2051
Green	10	525	1400	<b>KA2-2052</b>	1SFA 616 921 R2052
Yellow	10	592	200	<b>KA2-2053</b>	1SFA 616 921 R2053
Blue	10	470	600	<b>KA2-2054</b>	1SFA 616 921 R2054
White	10	x=0.31 y=0.32	1000	<b>KA2-2055</b>	1SFA 616 921 R2055
<b>Rated voltage 110-130 V, AC</b> Ⓢ Service life 25 000 h					
Red	4-6	630	60-100	<b>KA2-2131</b>	1SFA 616 921 R2131
Green	4-6	525	500-850	<b>KA2-2132</b>	1SFA 616 921 R2132
Yellow	4-6	592	70-120	<b>KA2-2133</b>	1SFA 616 921 R2133
Blue	4-6	470	220-350	<b>KA2-2134</b>	1SFA 616 921 R2134
White	4-6	x=0.31 y=0.32	350-600	<b>KA2-2135</b>	1SFA 616 921 R2135
<b>Rated voltage 110-130 V, AC/DC</b> Ⓢ Service life 25 000 h					
Red	4-6	630	60-100	<b>KA2-2141</b>	1SFA 616 921 R2141
Green	4-6	525	500-850	<b>KA2-2142</b>	1SFA 616 921 R2142
Yellow	4-6	592	70-120	<b>KA2-2143</b>	1SFA 616 921 R2143
Blue	4-6	470	220-350	<b>KA2-2144</b>	1SFA 616 921 R2144
White	4-6	x=0.31 y=0.32	350-600	<b>KA2-2145</b>	1SFA 616 921 R2145
<b>Rated voltage 230 V, AC</b> Ⓢ Service life 25 000 h					
Red	4	630	60	<b>KA2-2221</b>	1SFA 616 921 R2221
Green	4	525	500	<b>KA2-2222</b>	1SFA 616 921 R2222
Yellow	4	592	70	<b>KA2-2223</b>	1SFA 616 921 R2223
Blue	4	470	220	<b>KA2-2224</b>	1SFA 616 921 R2224
White	4	x=0.31 y=0.32	350	<b>KA2-2225</b>	1SFA 616 921 R2225

Ⓢ At AC the lumiance is decreased with 30 % and there is also a slight flickering.