

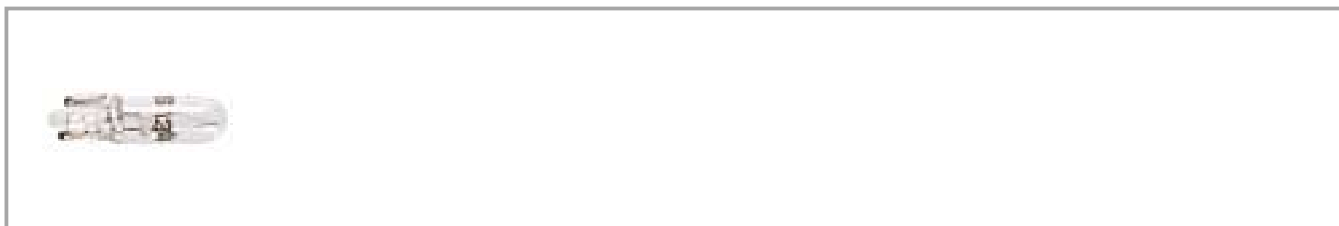
**Filament/neon lamps**



**Accessories Filament/neon lamps**

Description	Photo	Order no.	Page
Lamp extractor for lamp diameter 11 mm		1.90.900.007/0000	5 - 24

**Filament lamps, wedge base W 2 x 4.6d DIN 49846**



Rated voltage	Rated current	Rated power	Diameter max.	Length max.	Medium operating life AC	Order no. complete	Accessory lamp extractor
6 V	0.2 A	1.2 W	5 mm	20 mm	20000 h	1.90.120.013/0000	1.90.900.003/0000
12 V	0.08 A	1.2 W	5 mm	20 mm	15000 h	1.90.120.012/0000	1.90.900.003/0000
24 - 30 V	0.04 A	1 W	5 mm	20 mm	1000 h	1.90.120.005/0000	1.90.900.003/0000
24 V	0.04 A	1.2 W	5 mm	20 mm	7000 h	1.90.120.011/0000	1.90.900.003/0000
48 V	0.025 A	1.2 W	5 mm	19 mm	2500 h	1.90.120.010/0000	1.90.900.003/0000
60 V	0.02 A	1.2 W	5 mm	19 mm	3300 h	1.90.120.009/0000	1.90.900.003/0000

Ratings and operating life specifications generally refer to the lower rated voltage value. Operating life specifications of lamps refer to AC operation. With DC operation, these are reduced by about 40%.

**5**

Lamps

**Filament lamps, Bi-Pin T 1 base**



Rated voltage	Rated current	Rated power	Diameter max.	Length max.	Medium operating life AC	Order no. complete	Accessory lamp extractor
24 - 28 V	0.016 A	0.4 - 0.56 W			5000 h	1.90.180.473/0000	1.90.900.001/0000

Ratings and operating life specifications generally refer to the lower rated voltage value. Operating life specifications of lamps refer to AC operation. With DC operation, these are reduced by about 40%.

**Filament lamps, Bi-Pin T 1/4 base**



Rated voltage	Rated current	Rated power	Diameter max.	Length max.	Medium operating life AC	Order no. complete	Accessory lamp extractor
12 V	0.06 A	0.72 W	4.3 mm	10.5 mm	10000 h	1.90.180.474/0000	1.90.900.002/0000
28 V	0.03 A	0.84 W	4.3 mm	10.5 mm	5000 h	1.90.180.475/0000	1.90.900.002/0000

Ratings and operating life specifications generally refer to the lower rated voltage value. Operating life specifications of lamps refer to AC operation. With DC operation, these are reduced by about 40%.

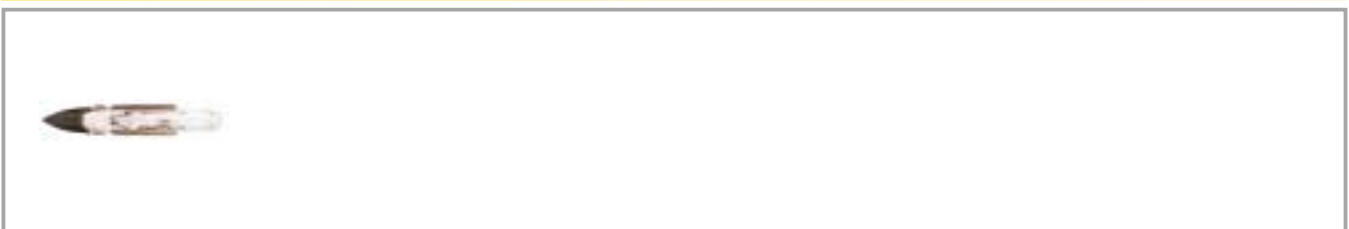
**Filament lamps T 4.5**



Rated voltage	Rated current	Rated power	Diameter max.	Length max.	Medium operating life AC	Order no. complete	Accessory lamp extractor
12 V	0.04 A	0.48 W	4.2 mm	16.5 mm	10000 h	1.90.100.022/0000	1.90.900.002/0000
24 V	0.02 A	0.48 W	4.2 mm	16.5 mm	8000 h	1.90.100.023/0000	1.90.900.002/0000

Ratings and operating life specifications generally refer to the lower rated voltage value. Operating life specifications of lamps refer to AC operation. With DC operation, these are reduced by about 40%.

**Filament lamps T 4.6**



Rated voltage	Rated current	Rated power	Diameter max.	Length max.	Medium operating life AC	Order no. complete	Accessory lamp extractor
12 V	0.04 A	0.3 W	4 mm	22 mm	5000 h	1.90.100.012/0000	1.90.900.002/0000
24 V	0.02 A	0.5 W	4 mm	22 mm	5000 h	1.90.100.013/0000	1.90.900.002/0000

Ratings and operating life specifications generally refer to the lower rated voltage value. Operating life specifications of lamps refer to AC operation. With DC operation, these are reduced by about 40%.

**Filament lamps T 5.5**



Rated voltage	Rated current	Rated power	Diameter max.	Length max.	Medium operating life AC	Order no. complete	Accessory lamp extractor
24 V	0.05 A	1.2 W	5 mm	22 mm	5000 h	1.90.101.054/0000	1.90.900.003/0000

Ratings and operating life specifications generally refer to the lower rated voltage value. Operating life specifications of lamps refer to AC operation. With DC operation, these are reduced by about 40%.

**Filament lamps, BA 9s base (MBC/MCC), shape G, DIN 72601**



Rated voltage	Rated current	Rated power	Diameter max.	Length max.	Medium operating life AC	Order no. complete	Accessory lamp extractor
12 - 15 V	0.12 A	1.2 W	9 mm	24 mm	10000 h	1.90.060.003/0000	1.90.900.006/0000
24 - 30 V	0.04 A	1.2 W	9 mm	24 mm	7000 h	1.90.060.014/0000	1.90.900.006/0000

Ratings and operating life specifications generally refer to the lower rated voltage value. Operating life specifications of lamps refer to AC operation. With DC operation, these are reduced by about 40%.

**Filament lamps, BA 9s base (MBC/MCC), shape A, DIN 49851**



Rated voltage	Rated current	Rated power	Diameter max.	Length max.	Medium operating life AC	Order no. complete	Accessory lamp extractor
12 - 15 V	0.166 A	2 W	11 mm	29 mm	10000 h	1.90.060.132/0000	1.90.900.007/0000
24 - 30 V	0.083 A	2 W	11 mm	29 mm	10000 h	1.90.060.133/0000	1.90.900.007/0000
110 - 130 V	0.018 A	2 W	11 mm	30 mm	25000 h	1.90.060.137/0000	1.90.900.007/0000

Ratings and operating life specifications generally refer to the lower rated voltage value. Operating life specifications of lamps refer to AC operation. With DC operation, these are reduced by about 40%.

**Neon lamps, BA 9s base (MBC/MCC)**



Rated voltage	Rated current	Diameter max.	Length max.	Order no. complete	Accessory lamp extractor
220 AC V	0.0015 - 0.0018 A	10 mm	24 mm	1.90.560.002/0000	1.90.900.007/0000

Ratings and operating life specifications generally refer to the lower rated voltage value. Operating life specifications of lamps refer to AC operation. With DC operation, these are reduced by about 40%.

## Neon lamps, BA 9s base (MBC/MCC), DIN 49850



Rated voltage	Rated current	Rated power	Diameter max.	Length max.	Medium operating life AC	Order no. complete	Accessory lamp extractor
220 AC (red) V	0.0015 - 0.0018 A		10 mm	28 mm		1.90.560.102/0000	1.90.900.007/0000
220 AC (green) V	0.0015 - 0.0018 A		10 mm	28 mm		1.90.560.104/0000	1.90.900.007/0000

Ratings and operating life specifications generally refer to the lower rated voltage value. Operating life specifications of lamps refer to AC operation. With DC operation, these are reduced by about 40%.

## Filament lamps, BA 15d base, DIN 49850



Rated voltage	Rated current	Rated power	Diameter max.	Length max.	Medium operating life AC	Order no. complete	Accessory lamp extractor
12 - 15 V	0.12 A	2 W	15.2/ 12.5 mm	31 mm	1000 h	1.90.070.003/0000	1.90.900.008/0000
24 - 30 V	0.08 A	2 W	15.2/ 12.5 mm	31 mm	1000 h	1.90.070.004/0000	1.90.900.008/0000

Ratings and operating life specifications generally refer to the lower rated voltage value. Operating life specifications of lamps refer to AC operation. With DC operation, these are reduced by about 40%.

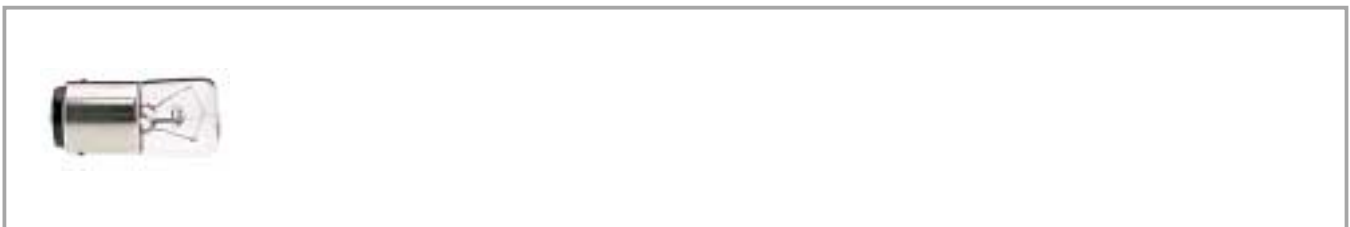
**Filament lamps, BA 15d base, DIN 49852**



Rated voltage	Rated current	Rated power	Diameter max.	Length max.	Medium operating life AC	Order no. complete	Accessory lamp extractor
24 - 30 V	0.165 A	4 W	17 mm	57 mm	2000 h	1.90.070.105/0000	1.90.900.009/0000
220 - 260 V	0.023 A	5 W	17 mm	57 mm	2000 h	1.90.070.109/0000	1.90.900.009/0000

Ratings and operating life specifications generally refer to the lower rated voltage value. Operating life specifications of lamps refer to AC operation. With DC operation, these are reduced by about 40%.

**Filament lamps, BA 15d base**



Rated voltage	Rated current	Rated power	Diameter max.	Length max.	Medium operating life AC	Order no. complete	Accessory lamp extractor
24 V	0.2 A	5 W	16 mm	36 mm	2000 h	1.90.070.053/0000	1.90.900.009/0000
220 - 260 V	0.02 - 0.03 A	5 - 7 W	16 mm	36 mm	1000 h	1.90.070.061/0000	1.90.900.009/0000

Ratings and operating life specifications generally refer to the lower rated voltage value. Operating life specifications of lamps refer to AC operation. With DC operation, these are reduced by about 40%.

**Filament lamps, E 10 (MES) base**



Rated voltage	Rated current	Rated power	Diameter max.	Length max.	Medium operating life AC	Order no. complete	Accessory lamp extractor
24 - 30 V	0.083 A	2 W	11 mm	29 mm	1000 h	1.90.010.033/0000	1.90.900.007/0000
110 - 130 V	0.018 A	2 W	11 mm	30 mm	1000 h	1.90.010.037/0000	1.90.900.007/0000

Ratings and operating life specifications generally refer to the lower rated voltage value. Operating life specifications of lamps refer to AC operation. With DC operation, these are reduced by about 40%.

**Neon lamps, E 10 (MES) base**



Rated voltage	Rated current	Rated power	Diameter max.	Length max.	Medium operating life AC	Order no. complete	Accessory lamp extractor
220 AC V	0.0015 - 0.0018 A		10.4 mm	28 mm		1.90.510.012/0000	1.90.900.006/0000

Ratings and operating life specifications generally refer to the lower rated voltage value. Operating life specifications of lamps refer to AC operation. With DC operation, these are reduced by about 40%.

**Filament lamps, E 14 base, shape B, DIN 49850**



Rated voltage	Rated current	Rated power	Diameter max.	Length max.	Medium operating life AC	Order no. complete	Accessory lamp extractor
24 - 30 V	0.083 A	2 W	14/12.5 mm	31 mm	1000 h	1.90.020.033/0000	1.90.900.008/0000

Ratings and operating life specifications generally refer to the lower rated voltage value. Operating life specifications of lamps refer to AC operation. With DC operation, these are reduced by about 40%.

**Filament lamps, E 14 base, shape A, DIN 49852**



Rated voltage	Rated current	Rated power	Diameter max.	Length max.	Medium operating life AC	Order no. complete	Accessory lamp extractor
24 - 30 V	0.165 A	4 W	17 mm	57 mm	1000 h	1.90.020.105/0000	1.90.900.009/0000
220 - 260 V	0.023 A	5 W	17 mm	57 mm	1000 h	1.90.020.115/0000	1.90.900.009/0000

Ratings and operating life specifications generally refer to the lower rated voltage value. Operating life specifications of lamps refer to AC operation. With DC operation, these are reduced by about 40%.

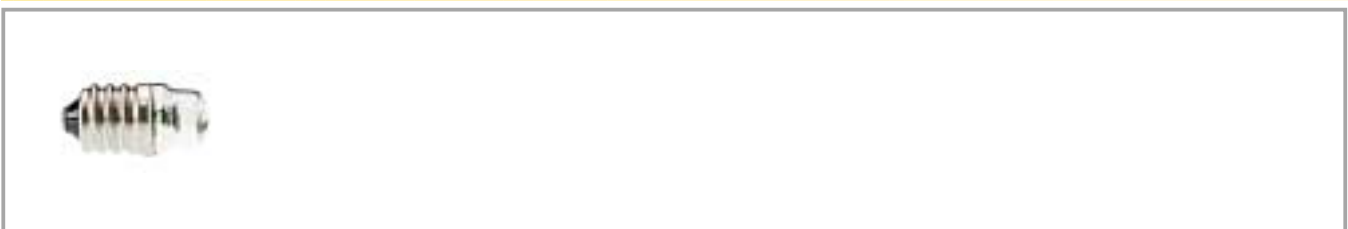
**Filament lamps, E 14 base**



Rated voltage	Rated current	Rated power	Diameter max.	Length max.	Medium operating life AC	Order no. complete	Accessory lamp extractor
24 V	0.2 A	5 W	16 mm	36 mm	2000 h	1.90.020.053/0000	1.90.900.009/0000
220 - 260 V	0.02 - 0.03 A	5 - 7 W	16 mm	36 mm	1000 h	1.90.020.061/0000	1.90.900.009/0000

Ratings and operating life specifications generally refer to the lower rated voltage value. Operating life specifications of lamps refer to AC operation. With DC operation, these are reduced by about 40%.

**Neon lamps, E 14 base, shape B**



Rated voltage	Rated current	Rated power	Diameter max.	Length max.	Medium operating life AC	Order no. complete	Accessory lamp extractor
220 AC V	0.0014 - 0.0026 A		14.1/ 11.5 mm	31 mm		1.90.520.002/0000	1.90.900.008/0000

Ratings and operating life specifications generally refer to the lower rated voltage value. Operating life specifications of lamps refer to AC operation. With DC operation, these are reduced by about 40%.

**Filament lamps, tubular lamp, S 8.5 base, shape L, DIN 72601**



Rated voltage	Rated current	Rated power	Diameter max.	Length max.	Medium operating life AC	Order no. complete	Accessory lamp extractor
24 V		3 W	11.5 mm	39 mm	200 h	1.90.111.003/0000	

Ratings and operating life specifications generally refer to the lower rated voltage value. Operating life specifications of lamps refer to AC operation. With DC operation, these are reduced by about 40%.

**Filament lamps, tubular lamp, S 8.5 base, shape K, DIN 72601**



Rated voltage	Rated current	Rated power	Diameter max.	Length max.	Medium operating life AC	Order no. complete	Accessory lamp extractor
24 V		5 W	15.5 mm	44 mm	200 h	1.90.111.103/0000	

Ratings and operating life specifications generally refer to the lower rated voltage value. Operating life specifications of lamps refer to AC operation. With DC operation, these are reduced by about 40%.