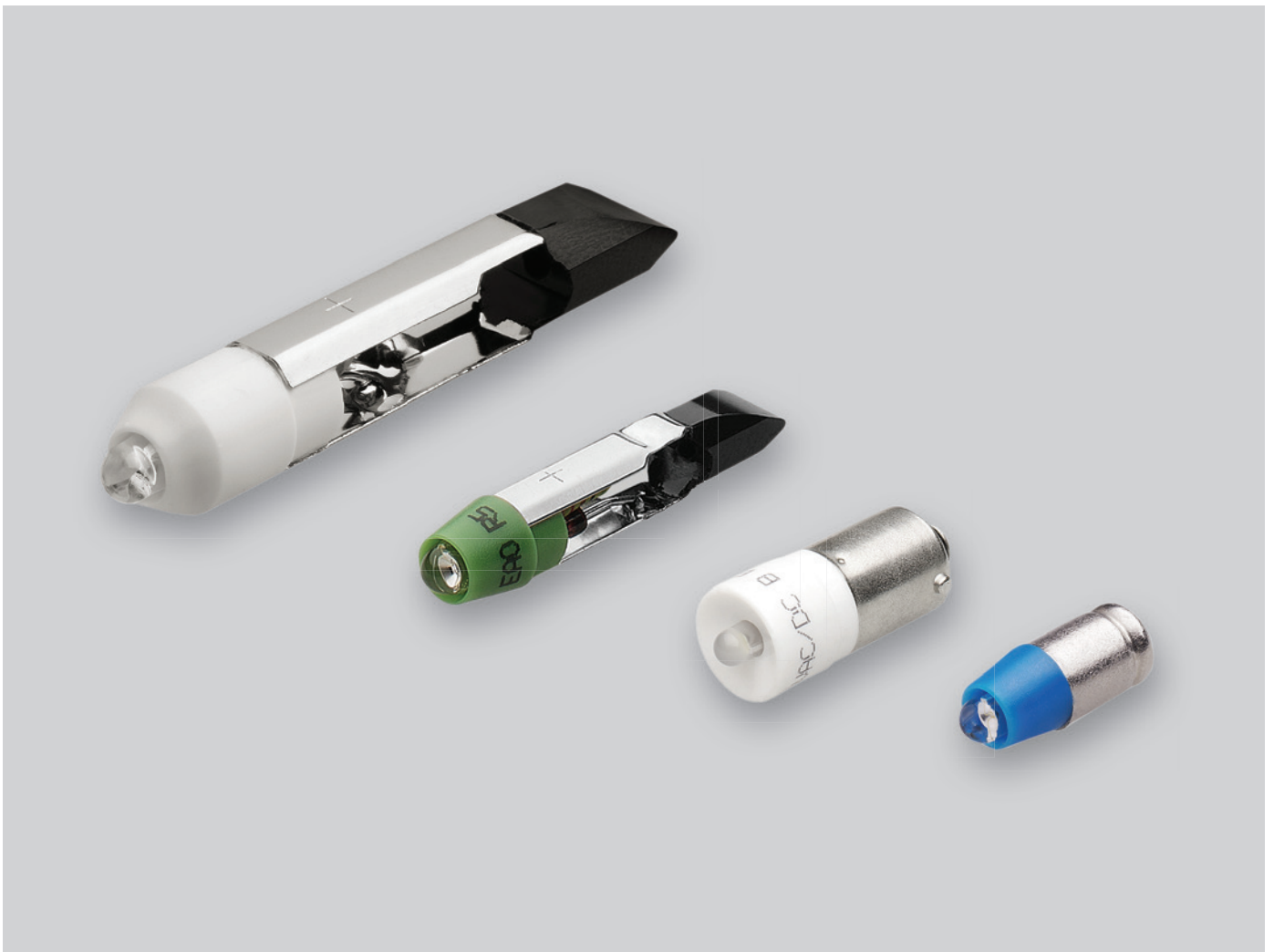


Series 10

Characteristics

The Series 10 are LEDs for use with all EAO's illuminated switches (as accessories).

The following pages show a representative selection of LEDs.



Overview

Illumination

LED T1 3/4 MG	4
Single-LED T5.5	6
Single-LED T6.8	8
LED BA9s	10
LED BA9s Fail Safe	12

Accessories 14

Technical data 16

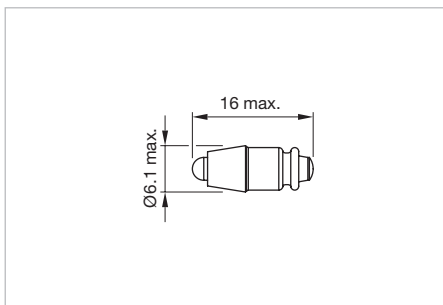
Application guidelines 17

Index 18

10 Illumination

(Sd=BR10_AGAU_Single-LED_T1_3/4_MG)

LED T1 3/4 MG



Product can differ from the current configuration.

Dimensions [mm]

Additional Information

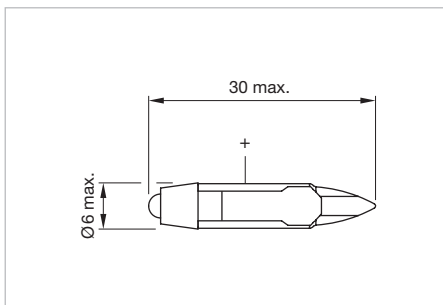
- A suitable lamp remover Part No. 61-9740.0 (Series Swisstac Part No. 300-0002-00)
- When using AC/DC types with AC operation, slight flickering can occur
- Luminous intensity data of the LEDs on direct voltage
- Electrical and optical data are measured at 25 °C
- If the 24VDC Bi-colour lamp is driven with normal polarity (plus on middle contact of the lamp) the first mentioned colour will light up, with inverted polarity the second colour will light up
- The specified versions are built with a protection diode (half wave rectifier) in series and the LED
- Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences regarding the illumination

LED colour	Operating voltage	Operation current	Lumi. intensity	Dom. wavelength	Part No.	Weight
 Single-LED						
Single-LED red	6 VDC +10 %	15 mA ±15 %	350 mcd	630 nm	10-2J06.3142	0.002 kg
	12 VAC/DC +10 %	7/14 mA ±15 %	330 mcd	630 nm	10-2J09.1062	0.002 kg
	24 VAC/DC +10 %	7/14 mA ±15 %	330 mcd	630 nm	10-2J12.1062	0.002 kg
	28 VAC/DC +10 %	7/14 mA ±15 %	330 mcd	630 nm	10-2J13.1062	0.002 kg
	48 VAC/DC +10 %	4/8 mA ±15 %	200 mcd	630 nm	10-2J19.1042	0.002 kg
Single-LED yellow	6 VDC +10 %	15 mA ±15 %	300 mcd	587 nm	10-2J06.3144	0.002 kg
	12 VAC/DC +10 %	7/14 mA ±15 %	280 mcd	587 nm	10-2J09.1064	0.002 kg
	24 VAC/DC +10 %	7/14 mA ±15 %	280 mcd	587 nm	10-2J12.1064	0.002 kg
	28 VAC/DC +10 %	7/14 mA ±15 %	280 mcd	587 nm	10-2J13.1064	0.002 kg
	48 VAC/DC +10 %	4/8 mA ±15 %	180 mcd	587 nm	10-2J19.1044	0.002 kg
Single-LED green	6 VDC +10 %	7 mA ±15 %	1050 mcd	525 nm	10-2J06.3145	0.002 kg
	12 VAC/DC +10 %	4/7 mA ±15 %	1050 mcd	525 nm	10-2J09.1065	0.002 kg
	24 VAC/DC +10 %	4/7 mA ±15 %	1050 mcd	525 nm	10-2J12.1065	0.002 kg
	28 VAC/DC +10 %	4/7 mA ±15 %	1050 mcd	525 nm	10-2J13.1065	0.002 kg
	48 VAC/DC +10 %	2/4 mA ±15 %	600 mcd	525 nm	10-2J19.1045	0.002 kg

LED colour	Operating voltage	Operation current	Lumi. intensity	Dom. wavelength	Part No.	Weight
Single-LED blue	6 VDC +10 %	15 mA ±15 %	680 mcd	470 nm	10-2J06.3146	0.002 kg
	12 VAC/DC +10 %	7/14 mA ±15 %	650 mcd	470 nm	10-2J09.1066	0.002 kg
	24 VAC/DC +10 %	7/14 mA ±15 %	650 mcd	470 nm	10-2J12.1066	0.002 kg
	28 VAC/DC +10 %	7/14 mA ±15 %	650 mcd	470 nm	10-2J13.1066	0.002 kg
	48 VAC/DC +10 %	4/8 mA ±15 %	400 mcd	470 nm	10-2J19.1046	0.002 kg
Single-LED white	6 VDC +10 %	6 mA ±15 %	900 mcd	x0.31/y0.32 nm	10-2J06.3149	0.002 kg
	12 VAC/DC +10 %	3/6 mA ±15 %	900 mcd	x0.31/y0.32 nm	10-2J09.1069	0.002 kg
	24 VAC/DC +10 %	2.5/5 mA ±15 %	750 mcd	x0.31/y0.32 nm	10-2J12.1069	0.002 kg
	28 VAC/DC +10 %	2.5/5 mA ±15 %	750 mcd	x0.31/y0.32 nm	10-2J13.1069	0.002 kg
	48 VAC/DC +10 %	2/4 mA ±15 %	600 mcd	x0.31/y0.32 nm	10-2J19.1049	0.002 kg
 Bi-colour LED						
Bi-colour LED red/green	24 VDC +10 %	15/14 mA ±15 %	600/630 mcd	625/525 nm	10-A312.314A	0.002 kg

10 Illumination

[Sd=BR10_AGAU_Single-LED_T5.5]
Single-LED T5.5



Product can differ from the current configuration.

Dimensions [mm]

Additional Information

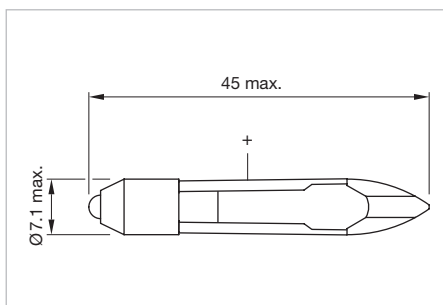
- A suitable LED remover Part No. 02-906 (Series Swisstac Part No. 300-0002-00)
- When fitting the LED elements pay attention to the polarity. An instruction can be found in the chapter «Application guidelines» of the corresponding series
- When using AC/DC types with AC operation, slight flickering can occur
- Electrical and optical data are measured at 25 °C
- Luminous intensity data of the LEDs on direct voltage
- The specified versions are built with a protection diode (half wave rectifier) in series and the LED
- Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences regarding the illumination

LED colour	Operating voltage	Operation current	Lumi. intensity	Dom. wavelength	Part No.	Weight
 Single-LED						
Single-LED red	6 VDC +10 %	15 mA ±15 %	350 mcd	630 nm	10-2106.3142	0.001 kg
	12 VAC/DC +10 %	7/14 mA ±15 %	330 mcd	630 nm	10-2109.1062	0.001 kg
	24 VAC/DC +10 %	7/14 mA ±15 %	330 mcd	630 nm	10-2112.1062	0.001 kg
	28 VAC/DC +10 %	7/14 mA ±15 %	330 mcd	630 nm	10-2113.1062	0.001 kg
	48 VAC/DC +10 %	4/8 mA ±15 %	200 mcd	630 nm	10-2119.1042	0.001 kg
Single-LED yellow	6 VDC +10 %	15 mA ±15 %	300 mcd	587 nm	10-2106.3144	0.001 kg
	12 VAC/DC +10 %	7/14 mA ±15 %	280 mcd	587 nm	10-2109.1064	0.001 kg
	24 VAC/DC +10 %	7/14 mA ±15 %	280 mcd	587 nm	10-2112.1064	0.001 kg
	28 VAC/DC +10 %	7/14 mA ±15 %	280 mcd	587 nm	10-2113.1064	0.001 kg
	48 VAC/DC +10 %	4/8 mA ±15 %	180 mcd	587 nm	10-2119.1044	0.001 kg
Single-LED green	6 VDC +10 %	7 mA ±15 %	1050 mcd	525 nm	10-2106.3145	0.001 kg
	12 VAC/DC +10 %	4/7 mA ±15 %	1050 mcd	525 nm	10-2109.1065	0.001 kg
	24 VAC/DC +10 %	4/7 mA ±15 %	1050 mcd	525 nm	10-2112.1065	0.001 kg
	28 VAC/DC +10 %	4/7 mA ±15 %	1050 mcd	525 nm	10-2113.1065	0.001 kg
	48 VAC/DC +10 %	2/4 mA ±15 %	600 mcd	525 nm	10-2119.1045	0.001 kg

LED colour	Operating voltage	Operation current	Lumi. intensity	Dom. wavelength	Part No.	Weight
Single-LED blue	6 VDC +10 %	15 mA $\pm$ 15 %	680 mcd	470 nm	10-2106.3146	0.001 kg
	12 VAC/DC +10 %	7/14 mA $\pm$ 15 %	650 mcd	470 nm	10-2109.1066	0.001 kg
	24 VAC/DC +10 %	7/14 mA $\pm$ 15 %	650 mcd	470 nm	10-2112.1066	0.001 kg
	28 VAC/DC +10 %	7/14 mA $\pm$ 15 %	650 mcd	470 nm	10-2113.1066	0.001 kg
	48 VAC/DC +10 %	4/8 mA $\pm$ 15 %	400 mcd	470 nm	10-2119.1046	0.001 kg
Single-LED white	6 VDC +10 %	6 mA $\pm$ 15 %	900 mcd	x0.31/y0.32 nm	10-2106.3149	0.001 kg
	12 VAC/DC +10 %	3/6 mA $\pm$ 15 %	900 mcd	x0.31/y0.32 nm	10-2109.1069	0.001 kg
	24 VAC/DC +10 %	2.5/5 mA $\pm$ 15 %	750 mcd	x0.31/y0.32 nm	10-2112.1069	0.001 kg
	28 VAC/DC +10 %	2.5/5 mA $\pm$ 15 %	750 mcd	x0.31/y0.32 nm	10-2113.1069	0.001 kg
	48 VAC/DC +10 %	2/4 mA $\pm$ 15 %	600 mcd	x0.31/y0.32 nm	10-2119.1049	0.001 kg

10 Illumination

[Sd=BR10_AGAU_Single-LED_T6.8]
Single-LED T6.8



Product can differ from the current configuration.

Dimensions [mm]

Additional Information

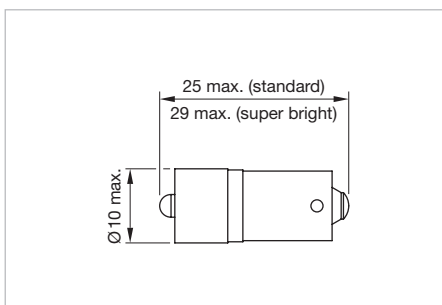
- A suitable LED remover Part No. 03-996
- When fitting the LED elements pay attention to the polarity. An instruction can be found in the chapter «Application guidelines» of the corresponding series
- When using AC/DC types with AC operation, slight flickering can occur
- Luminous intensity data of the LEDs on direct voltage
- Electrical and optical data are measured at 25 °C
- The specified versions are built with a protection diode (half wave rectifier) in series and the LED
- Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences regarding the illumination

LED colour	Operating voltage	Operation current	Lumi. intensity	Dom. wavelength	Part No.	Weight
 Single-LED						
Single-LED red	6 VDC +10 %	17 mA ±15 %	400 mcd	630 nm	10-2K06.3152	0.002 kg
	12 VAC/DC +10 %	9/17 mA ±15 %	400 mcd	630 nm	10-2K09.1072	0.002 kg
	24 VAC/DC +10 %	9/17 mA ±15 %	400 mcd	630 nm	10-2K12.1072	0.002 kg
	28 VAC/DC +10 %	9/17 mA ±15 %	400 mcd	630 nm	10-2K13.1072	0.002 kg
	48 VAC/DC +10 %	4/8 mA ±15 %	200 mcd	630 nm	10-2K19.1052	0.002 kg
Single-LED yellow	6 VDC +10 %	17 mA ±15 %	340 mcd	340 nm	10-2K06.3154	0.002 kg
	12 VAC/DC +10 %	9/17 mA ±15 %	340 mcd	340 nm	10-2K09.1074	0.002 kg
	24 VAC/DC +10 %	9/17 mA ±15 %	340 mcd	340 nm	10-2K12.1074	0.002 kg
	28 VAC/DC +10 %	9/17 mA ±15 %	340 mcd	340 nm	10-2K13.1074	0.002 kg
	48 VAC/DC +10 %	4/8 mA ±15 %	180 mcd	340 nm	10-2K19.1054	0.002 kg
Single-LED green	6 VDC +10 %	7 mA ±15 %	1050 mcd	525 nm	10-2K06.3155	0.002 kg
	12 VAC/DC +10 %	4/7 mA ±15 %	1050 mcd	525 nm	10-2K09.1075	0.002 kg
	24 VAC/DC +10 %	4/7 mA ±15 %	1050 mcd	525 nm	10-2K12.1075	0.002 kg
	28 VAC/DC +10 %	4/7 mA ±15 %	1050 mcd	525 nm	10-2K13.1075	0.002 kg
	48 VAC/DC +10 %	2/4 mA ±15 %	600 mcd	525 nm	10-2K19.1055	0.002 kg

LED colour	Operating voltage	Operation current	Lumi. intensity	Dom. wavelength	Part No.	Weight
Single-LED blue	6 VDC +10 %	17 mA ±15 %	780 mcd	470 nm	10-2K06.3156	0.002 kg
	12 VAC/DC +10 %	9/17 mA ±15 %	780 mcd	470 nm	10-2K09.1076	0.002 kg
	24 VAC/DC +10 %	9/17 mA ±15 %	780 mcd	470 nm	10-2K12.1076	0.002 kg
	28 VAC/DC +10 %	9/17 mA ±15 %	780 mcd	470 nm	10-2K13.1076	0.002 kg
	48 VAC/DC +10 %	4/8 mA ±15 %	400 mcd	470 nm	10-2K19.1056	0.002 kg
Single-LED white	6 VDC +10 %	6 mA ±15 %	900 mcd	x0.31/y0.32 nm	10-2K06.3159	0.002 kg
	12 VAC/DC +10 %	3/6 mA ±15 %	900 mcd	x0.31/y0.32 nm	10-2K09.1079	0.002 kg
	24 VAC/DC +10 %	3/6 mA ±15 %	900 mcd	x0.31/y0.32 nm	10-2K12.1079	0.002 kg
	28 VAC/DC +10 %	2.5/5 mA ±15 %	750 mcd	x0.31/y0.32 nm	10-2K13.1079	0.002 kg
	48 VAC/DC +10 %	2/4 mA ±15 %	600 mcd	x0.31/y0.32 nm	10-2K19.1059	0.002 kg

10 Illumination

[Sd=BR10_AGAU_Single-LED_BA9s]
LED BA9s



Product can differ from the current configuration.

Dimensions [mm]

Additional Information

- A suitable LED remover Part No. 700.006.0 (Series 44 Part No. 44-935)
- Luminous intensity data of the LEDs on direct voltage
- Electrical and optical data are measured at 25 °C
- The specified 6 VDC, 24 VDC Bi-colour; 130 VAC, 130 DC und 230 VAC versions are built with a protection diode
- The specified 12, 24, 28, 48 VAC/DC versions are built with a bridge rectifier
- If the 24VDC Bi-colour lamp is driven with normal polarity (plus on middle contact of the lamp) the first mentioned colour will light up, with inverted polarity the second colour will light up
- The specified 130 VAC types are developed to run on a supply voltage of 130 VAC only. An operation at a higher supply voltage using commercial lampholders with integrated resistors, is not approved
- Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences regarding the illumination

LED colour	Operating voltage	Operation current	Lumi. intensity	Dom. wavelength	Part No.	Weight
 Single-LED						
Single-LED red	6 VDC +10 %	17 mA ±15 %	400 mcd	630 nm	10-2506.1082	0.002 kg
	12 VAC/DC +10 %	16 mA ±15 %	390 mcd	630 nm	10-2509.1142	0.002 kg
	24 VAC/DC +10 %	15 mA ±15 %	350 mcd	630 nm	10-2512.1142	0.002 kg
	28 VAC/DC +10 %	13 mA ±15 %	300 mcd	630 nm	10-2513.1142	0.002 kg
	48 VAC/DC +10 %	8 mA ±15 %	200 mcd	630 nm	10-2519.1052	0.002 kg
	130 VDC +10 %	3 mA ±15 %	120 mcd	630 nm	10-2524.3042	0.002 kg
	130 VAC +10 %	5 mA ±15 %	180 mcd	630 nm	10-2H24.2052	0.002 kg
	230 VAC +10 %	3 mA ±15 %	120 mcd	630 nm	10-2H25.2042	0.002 kg
Single-LED yellow	6 VDC +10 %	17 mA ±15 %	340 mcd	587 nm	10-2506.1084	0.002 kg
	12 VAC/DC +10 %	16 mA ±15 %	340 mcd	587 nm	10-2509.1144	0.002 kg
	24 VAC/DC +10 %	15 mA ±15 %	300 mcd	587 nm	10-2512.1144	0.002 kg
	28 VAC/DC +10 %	13 mA ±15 %	270 mcd	587 nm	10-2513.1144	0.002 kg
	48 VAC/DC +10 %	8 mA ±15 %	180 mcd	587 nm	10-2519.1054	0.002 kg
	130 VDC +10 %	3 mA ±15 %	110 mcd	587 nm	10-2524.3044	0.002 kg

LED colour	Operating voltage	Operation current	Lumi. intensity	Dom. wavelength	Part No.	Weight
Single-LED yellow	130 VAC +10 %	5 mA ±15 %	160 mcd	587 nm	10-2H24.2054	0.002 kg
	230 VAC +10 %	3 mA ±15 %	110 mcd	587 nm	10-2H25.2044	0.002 kg
Single-LED green	6 VDC +10 %	7 mA ±15 %	1050 mcd	525 nm	10-2506.1085	0.002 kg
	12 VAC/DC +10 %	7 mA ±15 %	1050 mcd	525 nm	10-2509.1145	0.002 kg
	24 VAC/DC +10 %	7 mA ±15 %	1050 mcd	525 nm	10-2512.1145	0.002 kg
	28 VAC/DC +10 %	7 mA ±15 %	1050 mcd	525 nm	10-2513.1145	0.002 kg
	48 VAC/DC +10 %	4 mA ±15 %	600 mcd	525 nm	10-2519.1055	0.002 kg
	130 VDC +10 %	2 mA ±15 %	300 mcd	525 nm	10-2524.3045	0.002 kg
	130 VAC +10 %	3 mA ±15 %	450 mcd	525 nm	10-2H24.2055	0.002 kg
	230 VAC +10 %	2 mA ±15 %	300 mcd	525 nm	10-2H25.2045	0.002 kg
Single-LED blue	6 VDC +10 %	17 mA ±15 %	780 mcd	470 nm	10-2506.1086	0.002 kg
	12 VAC/DC +10 %	16 mA ±15 %	720 mcd	470 nm	10-2509.1146	0.002 kg
	24 VAC/DC +10 %	15 mA ±15 %	680 mcd	470 nm	10-2512.1146	0.002 kg
	28 VAC/DC +10 %	13 mA ±15 %	590 mcd	470 nm	10-2513.1146	0.002 kg
	48 VAC/DC +10 %	8 mA ±15 %	400 mcd	470 nm	10-2519.1056	0.002 kg
	130 VDC +10 %	3 mA ±15 %	200 mcd	470 nm	10-2524.3046	0.002 kg
	130 VAC +10 %	5 mA ±15 %	230 mcd	470 nm	10-2H24.2056	0.002 kg
	230 VAC +10 %	3 mA ±15 %	200 mcd	470 nm	10-2H25.2046	0.002 kg
Single-LED white	6 VDC +10 %	5 mA ±15 %	750 mcd	x0.31/y0.32 nm	10-2506.1089	0.002 kg
	12 VAC/DC +10 %	8 mA ±15 %	1200 mcd	x0.31/y0.32 nm	10-2509.1149	0.002 kg
	24 VAC/DC +10 %	7 mA ±15 %	1050 mcd	x0.31/y0.32 nm	10-2512.1149	0.002 kg
	28 VAC/DC +10 %	5 mA ±15 %	750 mcd	x0.31/y0.32 nm	10-2513.1149	0.002 kg
	48 VAC/DC +10 %	5 mA ±15 %	750 mcd	x0.31/y0.32 nm	10-2519.1059	0.002 kg
	130 VDC +10 %	1.5 mA ±15 %	225 mcd	x0.31/y0.32 nm	10-2524.3049	0.002 kg
	130 VAC +10 %	2 mA ±15 %	300 mcd	x0.31/y0.32 nm	10-2H24.2059	0.002 kg
	230 VAC +10 %	1.5 mA ±15 %	225 mcd	x0.31/y0.32 nm	10-2H25.2049	0.002 kg



Single-LED super bright

Single-LED red	28 VAC/DC +10 %	14 mA ±15 %	7700 mcd	630 nm	10-2413.1132R	0.002 kg
Single-LED green	28 VAC/DC +10 %	13 mA ±15 %	12400 mcd	525 nm	10-2413.1125R	0.002 kg
Single-LED yellow	28 VAC/DC +10 %	14 mA ±15 %	4200 mcd	589 nm	10-2413.1134R	0.002 kg



Single-LED with integrated Zener diode

Single-LED red	24–30 VAC/DC +10 %	13–19 mA ±15 %	300–440 mcd	630 nm	10-2H13.3162Q	0.002 kg
Single-LED green	24–30 VAC/DC +10 %	12–18 mA ±15 %	1800–2700 mcd	525 nm	10-2H13.3165Q	0.002 kg
Single-LED yellow	24–30 VAC/DC +10 %	13–19 mA ±15 %	270–380 mcd	587 nm	10-2H13.3164Q	0.002 kg
Single-LED blue	24–30 VAC/DC +10 %	12–18 mA ±15 %	560–800 mcd	470 nm	10-2H13.3166Q	0.002 kg
Single-LED white diffuse	24–30 VAC/DC +10 %	7–11 mA ±15 %	600–900 mcd	x0.31/y0.32	10-2H13.3169Q	0.002 kg

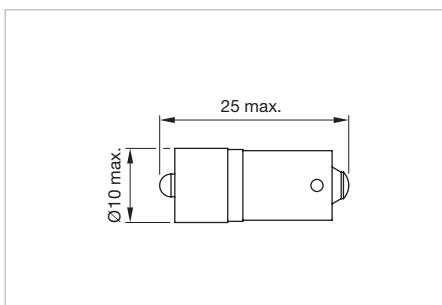


Bi-colour LED

Bi-colour LED red/green	24 VDC +10 %	15 mA ±15 %	1200/900 mcd	625/525 nm	10-2H12.314A	0.002 kg
Bi-colour LED red/yellow	24 VDC +10 %	15 mA ±15 %	1200/550 mcd	625/589 nm	10-2H12.314B	0.002 kg
Bi-colour LED yellow/green	24 VDC +10 %	15 mA ±15 %	900/550 mcd	525/589 nm	10-2H12.314C	0.002 kg

10 Illumination

(Sd=BR10, AGAU, Single-LED, BA9s, fail_safe)
LED BA9s, EN 50155, Fail Safe



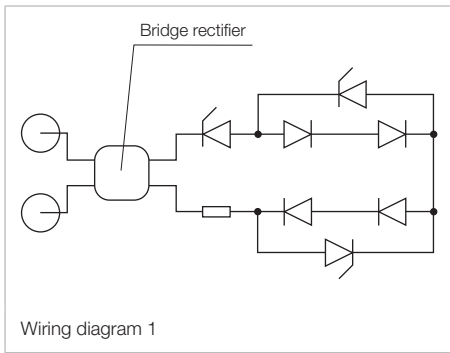
Product can differ from the current configuration.

Dimensions [mm]

Additional Information

- A suitable LED remover Part No. 700.006.0 (Series 44 Part No. 44-935)
- Luminous intensity data of the LEDs on direct voltage
- Electrical and optical data are measured at 25 °C
- The specified 72 and 110 VAC/VDC versions are built with a protection diode
- Specified 72 and 110 VAC/VDC versions are built with a bridge rectifier
- In case one LED fails, the other pair of still functioning LED-s is working. The light output then is half in order to indicate the malfunction and shows this way the need for replacement
- Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences regarding the illumination

LED colour	Operating voltage	Operation current	Lumi. intensity	Dom. wavelength	Part No.	Wiring diagram	Weight
 Multi-LED Fail Safe							
Multi-LED rot	72 VAC/DC -30%/+25 %	2.2 mA -30%/+25 %	4 x 190 mcd	625 nm	10-4H21.1032P	1	0.002 kg
	110 VAC/DC -30%/+25 %	2 mA -30 % /+25%	4 x 170 mcd	625 nm	10-4H22.1032P	1	0.002 kg
Multi-LED yellow	72 VAC/DC -30%/+25 %	2.2 mA -30%/+25 %	4 x 190 mcd	589 nm	10-4H21.1034P	1	0.002 kg
	110 VAC/DC -30%/+25 %	2 mA -30%/+25 %	4 x 170 mcd	589 nm	10-4H22.1034P	1	0.002 kg
Multi-LED green	72 VAC/DC -30%/+25 %	2.2 mA -30%/+25 %	4 x 120 mcd	525 nm	10-4H21.1035P	1	0.002 kg
	110 VAC/DC -30%/+25 %	2 mA -30%/+25 %	4 x 170 mcd	525 nm	10-4H22.1035P	1	0.002 kg
Multi-LED blue	72 VAC/DC -30%/+25 %	2.2 mA -30%/+25 %	4 x 30 mcd	465 nm	10-4H21.1036P	1	0.002 kg
	110 VAC/DC -30%/+25 %	2 mA -30%/+25 %	4 x 25 mcd	465 nm	10-4H22.1036P	1	0.002 kg
Multi-LED white	72 VAC/DC -30%/+25 %	2.2 mA -30%/+25 %	4 x 160 mcd		10-4H21.1039P	1	0.002 kg
	110 VAC/DC -30%/+25 %	2 mA -30%/+25 %	4 x 145 mcd		10-4H22.1039P	1	0.002 kg

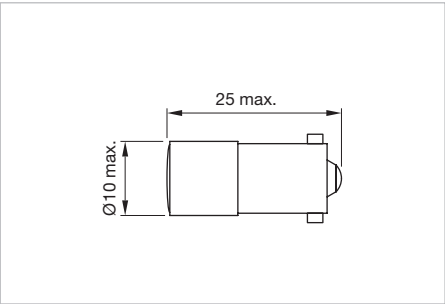


10 Illumination

LED BA9s, EN 50155



Product can differ from the current configuration.

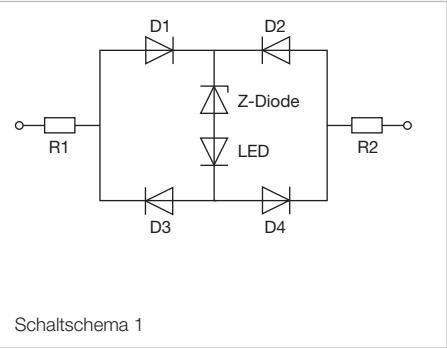


Dimensions [mm]

Additional Information

- A suitable LED remover Part No. 700.006.0 (Series 44 Part No. 44-935)
- Luminous intensity data of the LEDs on direct voltage
- Electrical and optical data are measured at 25 °C
- The specified 24 VAC/VDC versions are built with a protection diode
- Specified 24 VAC/VDC versions are built with a bridge rectifier
- The new, white BA9s LED operates within a range of 16VDC to 34VDC. It conforms to the norms EN 50155 and IEEE 1476.
- Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences regarding the illumination

LED colour	Operating voltage	Operation current	Lumi. intensity	Dom. wavelength	Part No.	Wiring diagram	Weight
Multi-LED							
Multi-LED white	24 VAC/DC -30%/+25 %	7.5 mA -30%/+25 %	700 mcd	625 nm	10-2412.1089P	1	0.002 kg



Illumination

(\$d=BR10_AGAU_LED-Zieher_zu_T1_3/4_MG)

LED remover for T1 3/4 MG**Additional Information**

▲ **Caution:** A switching process might be released when replacing the lamp

Product attribute	Part No.	Weight
 LED remover		
	für series 22, 31, 41, 51, 61, 71	61-9740.0 0.003 kg
	for series Swisstac	300-0002-00 0.003 kg

(\$d=BR10_AGAU_LED-zieher_zu_T5.5)

LED remover for T5.5**Additional Information**

▲ **Caution:** A switching process might be released when replacing the lamp

Product attribute	Part No.	Weight
 LED remover		
	for series 01, 14	02-906 0.002 kg

(\$d=BR10_AGAU_LED-Zieher_zu_T6.8)

LED remover for T6.8**Additional Information**

▲ **Caution:** A switching process might be released when replacing the lamp

Product attribute	Part No.	Weight
 LED remover		
	for series 02, 03	03-996 0.027 kg

10 Accessories

(\$d=BR10_AGAU_LED-Zieher_zu_T3_1/4_BA9s)
LED remover for BA9s

Additional Information

▲ **Caution:** A switching process might be released when replacing the lamp

Product attribute	Part No.	Weight
 LED remover		
for series 04	700.006.0	0.003 kg
 LED remover		
for series 44	44-935	0.037 kg

Technical Data

Electrical characteristics

Operating voltage tolerance
+10%

Mechanical characteristics

Standards

Lamp base

Base Standard

T1 3/4 MG DIN EN 60061-1: S5,7s

T5.5 DIN 49601

T6.8 DIN 49601

BA9s DIN EN 60061-1: BA9s

Environmental conditions

Storage temperature
-25 °C ... +80 °C

Service temperature
-20 °C ... +60 °C

EAO reserves the right to alter specifications without further notice.

10 Application guidelines

LED used in

Series	Base T 1 3/4	T 5.5	T 6.8	BA9s
01		■		
02			■	
03			■	
04				■
14		■		
22	■			
31	■			
44				■
51	■			
55 – Swisstac	■	■		
61	■			
71	■			

Index from Part No.

Part No.	Page	Part No.	Page
02-906	15	10-2J09.1064	4
03-996	15	10-2J09.1065	4
10-2106.3142	6	10-2J09.1066	5
10-2106.3144	6	10-2J09.1069	5
10-2106.3145	6	10-2J12.1062	4
10-2106.3146	7	10-2J12.1064	4
10-2106.3149	7	10-2J12.1065	4
10-2109.1062	6	10-2J12.1066	5
10-2109.1064	6	10-2J12.1069	5
10-2109.1065	6	10-2J13.1062	4
10-2109.1066	7	10-2J13.1064	4
10-2109.1069	7	10-2J13.1065	4
10-2112.1062	6	10-2J13.1066	5
10-2112.1064	6	10-2J13.1069	5
10-2112.1065	6	10-2J19.1042	4
10-2112.1066	7	10-2J19.1044	4
10-2112.1069	7	10-2J19.1045	4
10-2113.1062	6	10-2J19.1046	5
10-2113.1064	6	10-2J19.1049	5
10-2113.1065	6	10-2K06.3152	8
10-2113.1066	7	10-2K06.3154	8
10-2113.1069	7	10-2K06.3155	8
10-2119.1042	6	10-2K06.3156	9
10-2119.1044	6	10-2K06.3159	9
10-2119.1045	6	10-2K09.1072	8
10-2119.1046	7	10-2K09.1074	8
10-2119.1049	7	10-2K09.1075	8
10-2412.1089P	14	10-2K09.1076	9
10-2506.1082	10	10-2K09.1079	9
10-2506.1084	10	10-2K12.1072	8
10-2506.1085	11	10-2K12.1074	8
10-2506.1086	11	10-2K12.1075	8
10-2506.1089	11	10-2K12.1076	9
10-2509.1142	10	10-2K12.1079	9
10-2509.1144	10	10-2K13.1072	8
10-2509.1145	11	10-2K13.1074	8
10-2509.1146	11	10-2K13.1075	8
10-2509.1149	11	10-2K13.1076	9
10-2512.1142	10	10-2K13.1079	9
10-2512.1144	10	10-2K19.1052	8
10-2512.1145	11	10-2K19.1054	8
10-2512.1146	11	10-2K19.1055	8
10-2512.1149	11	10-2K19.1056	9
10-2513.1142	10	10-2K19.1059	9
10-2513.1144	10	10-4H21.1032P	12
10-2513.1145	11	10-4H21.1034P	12
10-2513.1146	11	10-4H21.1035P	12
10-2513.1149	11	10-4H21.1036P	12
10-2519.1052	10	10-4H21.1039P	12
10-2519.1054	10	10-4H22.1032P	12
10-2519.1055	11	10-4H22.1034P	12
10-2519.1056	11	10-4H22.1035P	12
10-2519.1059	11	10-4H22.1036P	12
10-2524.3042	10	10-4H22.1039P	12
10-2524.3044	10	10-A312.314A	5
10-2524.3045	11	300-0002-00	15
10-2524.3046	11	44-935	16
10-2524.3049	11	61-9740.0	15
10-2H12.314A	11	700.006.0	16
10-2H12.314B	11		
10-2H12.314C	11		
10-2H24.2052	10		
10-2H24.2054	11		
10-2H24.2055	11		
10-2H24.2056	11		
10-2H24.2059	11		
10-2H25.2042	10		
10-2H25.2044	11		
10-2H25.2045	11		
10-2H25.2046	11		
10-2H25.2049	11		
10-2J06.3142	4		
10-2J06.3144	4		
10-2J06.3145	4		
10-2J06.3146	5		
10-2J06.3149	5		
10-2J09.1062	4		

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

EAO:

[10-2K12.1074](#) [10-2602.3174C](#) [10-1112.1279](#) [10-2602.3205L](#) [10-2K13.1079](#) [10-2506.1086](#) [10-2K12.1072](#) [10-2513.1144](#) [10-2J19.1049](#) [10-2J19.1045](#) [10-1106.1369](#) [10-2112.1062](#) [10-1313.1209](#) [10-2602.3175E](#) [10-A312.314A](#)
[10-1113.1249](#) [10-1306.1349](#) [10-2K09.1072](#) [10-1313.1249](#) [10-1214.1249](#) [10-2H12.314B](#) [10-2K09.1074](#) [10-2113.1062](#) [10-2109.1069](#) [10-2K13.1072](#) [10-2112.1064](#) [10-2603.3179C](#) [10-2602.3206L](#) [10-2602.3203L](#) [10-1219.1199](#) [10-2506.1085](#) [10-4613.3103B](#) [10-1319.1199](#) [10-2113.1065](#) [10-2H25.2042](#) [10-2602.3172G](#) [10-2106.3145](#) [10-2106.3146](#) [10-2J06.3149](#) [10-1312.1229](#) [10-4613.3102B](#) [10-2524.3045](#) [10-2109.1062](#) [10-1309.1309](#) [10-2602.3175C](#) [10-2H12.314C](#) [10-2106.3142](#) [10-1212.1279](#) [10-2602.3172E](#) [10-2K12.1079](#) [10-2K09.1079](#) [10-2106.3149](#) [10-2602.3174E](#) [10-2K13.1075](#) [10-1420.1219](#) [10-4613.3104B](#) [10-2112.1065](#) [10-2519.1059](#) [10-1109.1329](#) [10-2112.1066](#) [10-1613.1189](#) [10-1424.1179](#) [10-2H12.314A](#) [10-4613.3105B](#) [10-2J06.3146](#) [10-1416.1289](#)
[10-2602.3175G](#) [10-2J19.1046](#) [10-2J19.1044](#) [10-1409.1329](#) [10-2513.1149](#) [10-2J06.3144](#) [10-2513.1142](#) [10-2602.3174G](#) [10-2K09.1075](#) [10-1213.1249](#) [10-2K13.1074](#) [10-2106.3144](#) [10-2119.1042](#) [10-2309.1065](#) [10-2312.1069](#) [10-1612.1189](#) [10-2306.3149](#) [10-5113.3144](#) [10-2313.1069](#) [10-5109.3205](#) [10-2602.3174D](#) [10-5213.3145](#) [10-5606.3242D](#) [10-2602.3175H](#) [10-5106.3255](#) [10-5212.3144](#) [10-6409.3245](#) [10-5213.3142](#) [10-6409.3242](#) [10-5109.3204](#) [10-5206.3255](#) [10-7123.2022](#) [10-6406.3315](#) [10-5119.3132](#)