

Flashlamps for Warning Beacons



PerkinElmer Optoelectronics offers the largest assortment of different lamp shapes for meeting the needs of diverse products within the warning beacon market. We offer many lamp forms, including linear lamps, U-shape, circular, helical and double helix forms. Complete plug-in solutions – lamps, sockets, and integrated trigger coils – are also available and can be customized to meet any customer needs.



PerkinElmer's comprehensive concept includes all standard materials, from low-cost hard glass to several quartz options. Special long-life electrodes help to drastically reduce service costs, while colored lamps allow one cover for all different colors in use. This creates additional savings in stock and manufacturing costs.

Features

- ▶ Wide variety of lamp designs (different shapes, colors and sizes)
- ▶ Several envelope materials for customer-specific spectral and power requirements
- ▶ Customization of lamps with trigger electrodes, end caps, flexible or rigid wires, sockets, and sockets with integrated trigger coils
- ▶ PerkinElmer patented Long Life electrodes

Applications

- ▶ Lamps for emergency vehicles (police cars, fire trucks etc.)
- ▶ Tower strobes
- ▶ Warning beacons on construction sites
- ▶ Airport runways
- ▶ Aircraft landing lights
- ▶ Curing systems
- ▶ Speed cameras
- ▶ Emergency exits

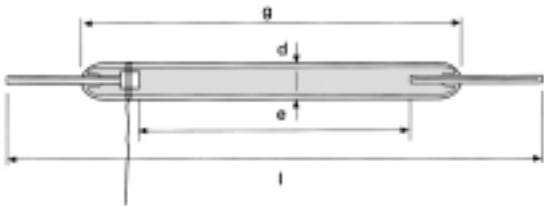


Fig. 1

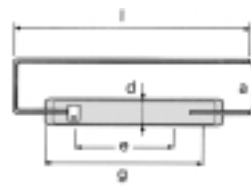


Fig. 2

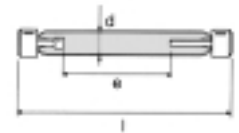


Fig. 3

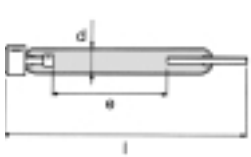


Fig. 4

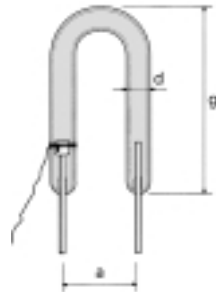


Fig. 5

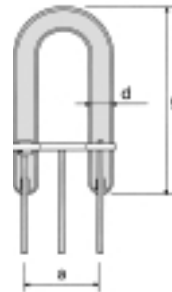


Fig. 6

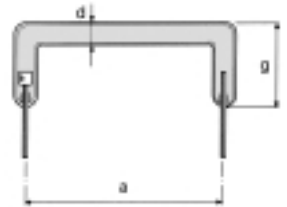


Fig. 7

Type	Figure	Energy / Ws	Power / W	Anode Voltage / V			Dimensions / mm					
				min	nom	max	e	g	l	d	r	a
AGA 0017	1	1	1	170	300	350	17	27	49	3.2	-	-
BGA 1020	1	2	2	180	330	350	20	34	44	3.2	-	-
BG 0625 - 2	2	6	15	250	360	400	25	50	70	5.5	-	10
EG 3770	3	32	32	300	450	600	68	-	117	7	-	-
EGL 3840	4	40	40	400	500	550	40	69	113	8	-	-
AU 0023	5	2	2	150	250	400	-	16	-	3.2	-	7
BUS 0635	6	4	4	250	400	500	-	28	-	6	-	17.5
BUB 0641	6	6	6	200	500	550	-	30	-	6	-	10
BUB 0661	5	8	8	220	400	500	-	41	-	6	-	13
CU 1640	5	10	6	225	500	550	-	37	-	6	-	10
DU 7670	5	15	15	250	400	500	-	45	-	6	-	17.5
BU 2680 - 6	7	15	30	260	290	360	-	29	-	7	-	80
BU 0690	7	7	21	200	450	500	-	23	-	6	-	87
ER 2680	8	25	25	250	350	400	-	27	-	6	20	9
BR 0465	9	10	10	250	340	400	-	-	-	5.5	35	18
BH 0647	10	8	16	280	360	400	-	30	-	6	-	17.5
CH 0601 - 5	11	10	20	300	400	450	-	32	-	6	-	22
CH 0601 - 7	12	10	20	300	400	450	-	40	-	6	-	22
AHF 2640 STD	10	20	25	180	350	600	-	31	-	6	-	15
AHPF 2640 STD	10	20	30	180	350	600	-	31	-	6	-	15
AHF 2647 STD	10	20	25	180	350	600	-	31	-	6	-	17.5
AHPF 2647 STD	10	20	30	180	350	600	-	31	-	6	-	17.5
DHT 2601	13	25	25	300	400	450	-	45	-	7	-	23
BH 3798	12	40	40	250	550	600	-	43	-	7	-	20
SW 503 - 1	13	60	30	400	550	700	-	36	-	7	-	17.5
DW 3670	14	20	20	300	560	600	-	50	50.0	6	32	-
BH 1670	15	25	25	175	300	600	-	48	47.5	6	32	-

* Borosilicate glass B1 (standard glass): Automatic processing ability. Many tube diameters available.
 Borosilicate glass B2: Withstands approx. 30% more power than B1. Requires manual processing.
 Quartz glass Q1: UV transparent.
 Quartz glass Q2: Reduced generation of ozone.

** Anode voltage doubling trigger

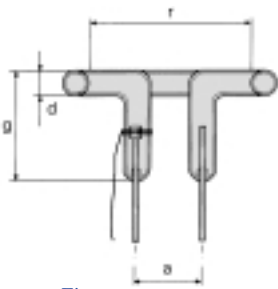


Fig. 8

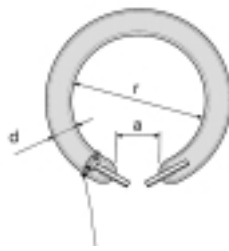


Fig. 9

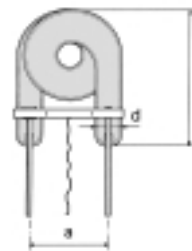


Fig. 10

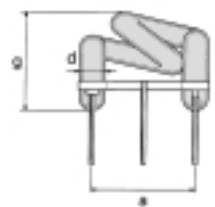


Fig. 11

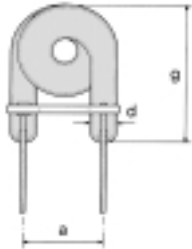


Fig. 12

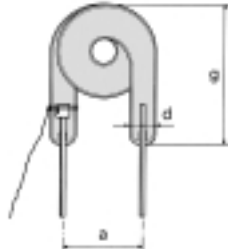


Fig. 13

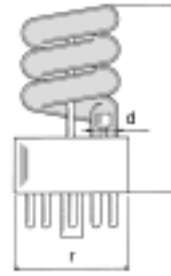


Fig. 14

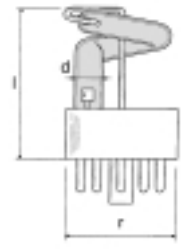


Fig. 15

Flashes per sec	Life Flashes	Envelope Material	Recommendations		
			Trigger Coil	Trigger Capacitor / μF	Primary Trigger Voltage / V
4	1×10^6	B 1*	ZS 1052	0.047	170
4	3.6×10^6	B 1*	ZS 1052	0.1	180
4	5×10^6	B 1*	ZS 1052	0.1	**
4	9×10^6	Q 1*	ZS 1052	0.22	250
4	1×10^7	Q 2*	STS 36	0.47	300
4	1×10^6	B 1*	ZS 1052	0.1	200
4	5×10^6	B 1*	ZS 1052	0.1	150
4	5×10^6	B 1*	ZS 1052	0.22	150
4	5×10^6	B 1*	ZS 1052	0.1	150
4	5×10^6	B 1*	ZS 1052	0.1	200
4	5×10^6	B 1*	ZS 1052	0.1	250
3	5×10^6	B 2*	ZS 1052	0.22	260
3	5×10^6	B 1*	ZS 1052	0.22	200
4	3×10^6	B 1*	ZS 1052	0.1	200
4	1×10^6	B 1*	ZS 1052	0.22	210
4	3×10^6	B 1*	ZS 1052	0.1	200
4	4×10^6	B 1*	ZS 1052	0.1	200
4	4×10^6	B 1*	ZS 1052	0.1	200
4	$57,6 \times 10^6$	B 1*	ZS 1052	0.22	180
4	72×10^6	B 2*	ZS 1052	0.22	180
4	$57,6 \times 10^6$	B 1*	ZS 1052	0.22	180
4	72×10^6	B 2*	ZS 1052	0.22	180
4	3.6×10^6	B 2*	ZS 1052	0.1	200
4	3.6×10^6	B 2*	ZS 1052	0.22	250
4	5×10^6	Q 1*	ZS 1052	0.22	300
4	5×10^6	B 1*	ZS 1052	0.1	200
4	3.6×10^6	B 1*	ZS 1052	0.22	175

Trigger Transformer Recommendations

Optimal flash module performance and reliability is essential. With that in mind, PerkinElmer Optoelectronics designs and manufactures trigger coils and transformers for a wide range of specifications – all based on our customers' specific flash applications. Please refer to our Trigger Transformer datasheet to learn which trigger transformer matches your specific lamp and application.

Your Partner of Choice

With a broad customer base in all major markets, built on ninety years of solid trust and cooperation with our customers, PerkinElmer is recognized as a reliable partner that delivers high quantity, customized, and superior “one-stop” solutions. Our products – from lamps to trigger transformers, reflectors, power supplies, and more – meet the highest qualitative and environmental standards. Our worldwide Centers of Excellence along with our Customer and Technical Support teams always work with you to find the best solutions for your specific needs.

PerkinElmer Optoelectronics

PerkinElmer Optoelectronics is a global technology leader providing market-driven, integrated solutions for a wide range of applications, which leverage our lighting, sensors, and imaging expertise. Our technologies, services and support are fueling the medical, genomic and digital revolutions by enhancing our customers’ productivity, optimizing performance, and accelerating time-to-market.

So contact us and put PerkinElmer’s expertise to work in your demanding lighting applications. Let us show you how our innovations will help you deliver the perfect product.

European Headquarters
PerkinElmer Optoelectronics
Wenzel-Jaksch-Str. 31
65199 Wiesbaden, Germany
Telephone: (+49) 611-492-269
Fax: (+49) 611-492-132
Email: opto.Europe@perkinelmer.com

Asia Headquarters
PerkinElmer Optoelectronics
47 Ayer Rajah Crescent #06-12
Singapore 139947
Telephone: (+65) 67704-306
Fax: (+65) 67751-008
Email: opto.Asia@perkinelmer.com

Worldwide Headquarters
PerkinElmer Optoelectronics
44370 Christy Street
Fremont, CA 94538-3180
Telephone: +1 510-979-6500
Toll free: (North America) +1 800-775-OPTO (6786)
Fax: +1 510-687-1140
Email: opto@perkinelmer.com
www.optoelectronics.perkinelmer.com



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