DATASHEET

Flashlamps
for Stroboscopic Applications

Excelitas develops lamps that are perfectly suited for high repetition rates in stroboscopic applications. Typically, linear, U-shaped, or helix form the range of standard stroboscopy lamps, covering everything from low-power 2 mm arc length up to more than 600 mm and 3000 W.

For high power and UV applications, we offer a range of different quartz envelope materials. For applications with less stringent requirements, hard glass is the preferred solution for achieving optimal price competitiveness and a maximum grade of manufactering automation. Our expert application engineers will work with you to find the best solution and offer ongoing support in the development of customized flashlamps that meet special customer requirements.

Features

- Wide variety of lamp designs
- Different shapes, colors and sizes (from below 10 mm to approx. 600 mm)
- Wattage ranging from 1 to several thousand Watts
- Large variety of envelope materials for customer-specific spectral requirements
- Customization of lamps with trigger electrodes, end caps, flexible or rigid wires

Applications

- Sport photography
- Machine vision
- Display effect lights
- Medical
- Architectural lighting

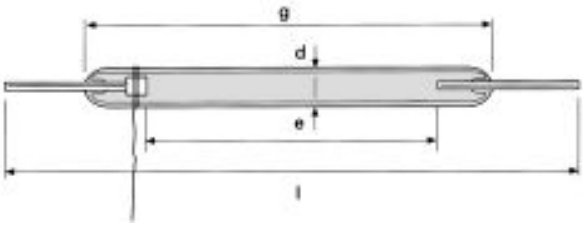

Fig. 1

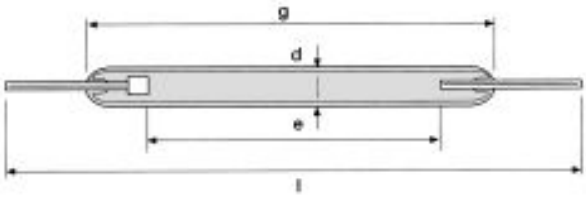

Fig. 2

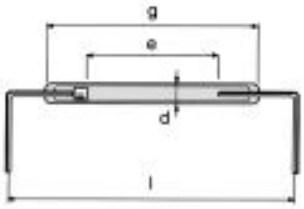

Fig. 3

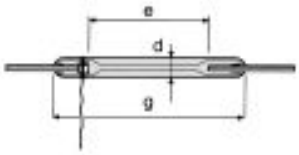

Fig. 4

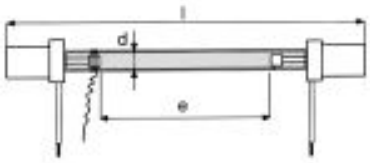

Fig. 5

Type	Figure	Power / W	Anode Voltage / V			Dimensions / mm					Flashes per sec
			min	nom	max	e	g	l	d	a	
CGA 1010	1	1	250	280	360	10	19	23	3.20	-	5 - 100
AGA 0210	2	3	150	250	400	10	24	32	3.60	-	5 - 50
CGA 0414	1	3	250	400	600	14	28	40	4.55	-	5 - 300
BGG 0613	3	4	230	600	750	12	30	35	5.45	-	5 - 100
SG 301	4	4	400	550	600	27	45	-	6.00	-	5 - 1000
DGA 0050	3	5	300	330	360	50	65	75	3.15	-	5 - 100
SG 302-1	1	6	350	550	600	39	64	-	6.00	-	5 - 300
DGS 0610	1	10	280	320	360	10	30	44	6.00	-	5 - 100
SG 305	1	25	400	550	600	40	69	103	8.00	-	5 - 300
SG 304	1	100	400	600	660	100	130	160	8.00	-	5 - 100
DG 8901-1	5	750	360	550	700	158	-	238	10.00	-	2 - 14
EG 9902-1	5	1500	480	550	700	312	-	392	10.00	-	2 - 14
FG 9902-1	5	2500	600	800	1000	457	-	537	10.00	-	2 - 14
GG 9902-1	5	3000	600	800	1000	615	-	695	10.00	-	2 - 14
BUS 0635	6	3	220	400	440	-	28	-	6.00	17.5	5 - 300
SU 401-1	6	4	400	550	650	-	40	-	6.00	13.0	5 - 300
BUB 0641	6	6	200	500	550	-	30	-	6.00	10.0	5 - 250
BUB 0661	7	8	220	400	500	-	42	-	6.00	13.0	5 - 300
SU 414	8	25	400	650	1000	-	35	-	7.00	11.5	5 - 300
BUS 0980	7	100	250	500	700	-	59	-	10.00	17.5	5 - 300
SU 405-2	7	150	600	900	1000	-	90	-	9.00	15.0	5 - 300
SH 203	9	8	300	550	600	-	22	-	6.00	14.0	5 - 300
BH 0647	10	16	280	360	400	-	30	-	6.00	17.5	5 - 300
SH 204	9	20	400	550	600	-	50	-	6.00	19.5	5 - 300
SH 205	9	30	400	550	700	-	70	-	6.00	19.5	5 - 300
SW 503-1	9	30	400	550	700	-	35	-	7.00	17.5	5 - 300

* 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.

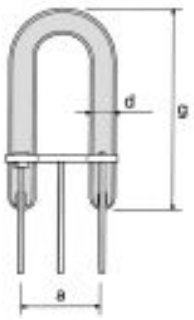

Fig. 6

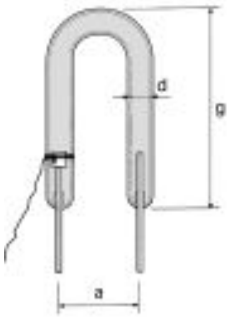

Fig. 7

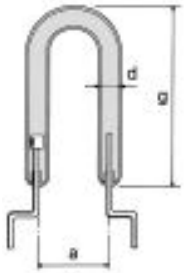

Fig. 8

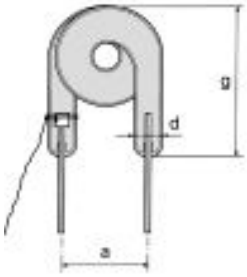

Fig. 9

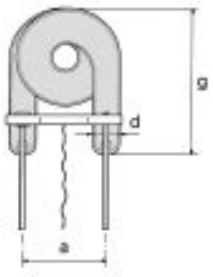

Fig. 10

Life Hours	Envelope Material	Recommendations Trigger Coil	Trigger Capacitor / µF	Primary Trigger Voltage / V
50	B 1*	ZS 1052	0.047	180
60	B 1*	ZS 1052	0.047	150
250	B 1*	ZS 1052	0.068	100
60	B 1*	ZS 1052	0.022	100
250	B 2*	ZS 1052	0.1	170
100	B 1*	ZS 1052	0.047	200
250	B 1*	ZS 1052	0.1	170
500	Q 2*	ZS 1052	0.047	250
250	Q 2*	ZS 1052	0.22	200
250	Q 1*	ZS 1052	0.22	250
500	Q 2*	ZS 1052	0.22	250
500	Q 2*	ZS 1052	0.22	250
500	Q 2*	ZS 1052	0.22	180
500	Q 2*	ZS 1031	0.47	300
250	B 1*	ZS 1052	0.1	150
250	B 1*	ZS 1052	0.047	150
250	B 1*	ZS 1052	0.22	150
250	B 1*	ZS 1052	0.1	150
250	Q 1*	ZS 1052	0.1	200
70	B 2*	ZS 1052	0.1	250
250	Q 1*	ZS 1052	0.1	300
250	B 1*	ZS 1052	0.1	200
250	B 1*	ZS 1052	0.1	200
250	B 1*	ZS 1052	0.22	200
250	B 1*	ZS 1052	0.22	200
250	Q 1*	ZS 1052	0.22	300

Trigger Transformer Recommendations

Optimal flash module performance and reliability is essential. With that in mind, Excelitas 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, Excelitas 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.

Excelitas

Excelitas 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 digitalrevolutions by enhancing our customers' productivity, optimizing performance, and accelerating time-to-market.

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

European Headquarters
Excelitas Technologies
Wenzel-Jaksch-Str. 31
65199 Wiesbaden, Germany
Telephone: (+49) 611-492-269
Fax: (+49) 611-492-132
generalinquiries@excelitas.com

Asia Headquarters
Excelitas Technologies
47 Ayer Rajah Crescent #06-12
Singapore 139947
Telephone: (+65) 67704-306
Fax: (+65) 67751-008

Worldwide Headquarters
Excelitas Technologies
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

EXCELITAS TECHNOLOGIES

For a complete listing of our global offices, visit www.excelitas.com

600005_01 DTS0904P