

Technical Information

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Xenon Short Arc Lamp

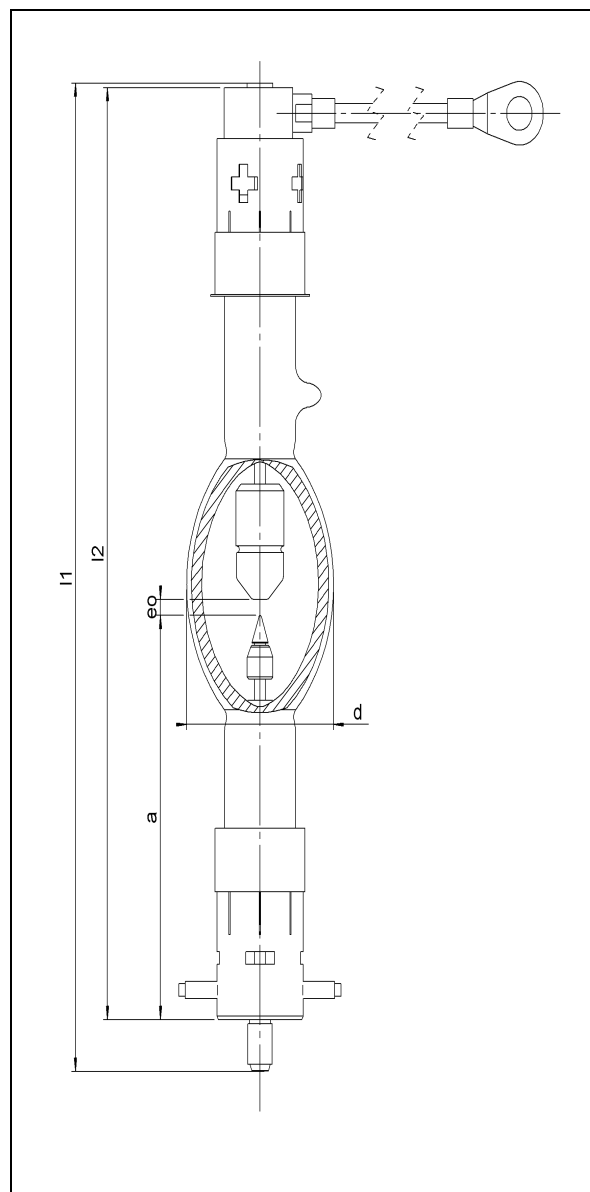
XBO[®] 700 W/HSC OFR

■ Product description

The OSRAM XBO[®] 700 W/HSC OFR is a DC -operated lamp that is especially suited for applications requiring excellent arc stability and high luminance. The OSRAM XBO[®] 700 W/HSC OFR is designed for horizontal burning position (H = horizontal , S = short , C = cable).

■ Technical data

Order reference	XBO [®] 700 W/HSC OFR	
Rated lamp wattage	W	700
Rated lamp voltage	V	18
Rated lamp current (=)	A	37
Current control range	A	30 - 45
Ignition voltage	kV _P	30
Min. open circuit voltage for cold / hot ignition	V	60 / 75
Luminous flux	lm	20,000
Luminous intensity	cd	2,000
Average luminance	cd/cm ²	40,000
Luminous area w x h *)	mm	1.1 x 2.9
Electrode gap e (cold)	mm	3.6
Lamp length (overall) l ₁	mm	max. 236
Lamp length l ₂	mm	max. 222
LCL a	mm	95
Bulb diameter d	mm	40
Average service life	h	2,000
Warranty	h	1,500
Base	Cathode	SFcx 27-8
	Anode	SK 27/50



*) w = luminance half width value; h = height of luminous area (corresponds to electrode gap, hot)

■ Lamp operation

Maximum permitted base temperature	230 °C
Cooling	forced cooling / fan
Min. air flow velocity around discharge vessel	5 m/s
Burning position	s 20 (vertical ± 20°; anode up) ; p 20 (horizontal ± 20°)