Technical Information

No. FO 4818

Edition: 11/2003 - subject to change

Supersedes: 10/2003 Status: valid

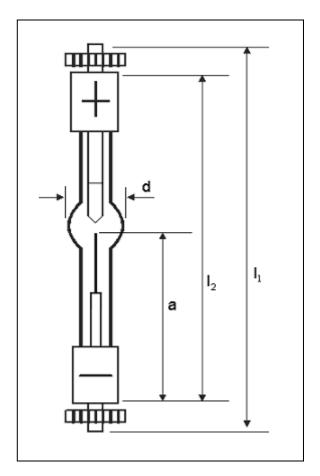
XBO[®] 150 W/1

■ Product description

- Xenon discharge lamp for DC operation
- Short arc
- · High pressure
- · Daylight spectrum
- Hot re-start

■ Electrical Data and Lamp Geometry

Rated lamp current	Α	7.5
Rated lamp power	W	150
Initial voltage range	V	17 21
Ignition voltage (cold / hot)	kV	25 / 25
Overall lamp length I ₁	mm	max. 150
Lamp length I ₂	mm	max. 127
Bulb diameter d	mm	max. 20
Length a ¹	mm	57 ± 1
Electrode gap (cold) e	mm	approx. 2.5
Base (anode side)		• SFcX 12-4
Base (cathode side)		• SFc 12-4



■ Performance Data ²

Initial luminous flux	lm	min. 2,400
Initial average luminance	cd/cm²	min. 12,000
Initial light intensity 3	cd	min. 240
Colour temperature	K	approx. 5,700
Colour rendering index		approx. 95
Average life	h	1,200

Mounting

This lamp should be mounted at the cathode base; the anode base should be left unsupported. It is allowed to mount at the anode base leaving the cathode base unsupported; however, this renders length "a" meaningless.

³ Light intensity in the plane containing cathode tip and vertical to lamp axis



¹ Length "a" specifies the position of cathode tip referring to reference plane at room temperature.

² At rated current if not otherwise specified

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Xenon Short Arc Lamp

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Operation Conditions

Burning position		s15 (vertical, cathode down, \pm 15°)
Base temperature	°C	max. 230 allowed
Cooling		forced cooling necessary
Arc stabilisation		not required
Allowed power range	W	130 175
Allowed current range 4	Α	7.5
Max. peak of inrush current	Α	25
Polarity		for proper polarity observe base marking

This lamp type can be operated both on a standard ballast and on an electronic power supply provided they comply with the requirements laid down in OSRAM Guidelines for Power Supplies and Igniters (see table below).

■ Safety Instructions

This lamp has a high internal pressure even when cold. When handling it observe precautionary measures laid down in the safety enclosure accompanying each lamp.

For operation use only purpose-built lamp housings which prevent direct viewing of the arc and, in case of lamp bursting, refrain lamp particles.

Additional Documentation

Titl	е	Order reference
•	Typical Spectral Distribution	-
•	Guidelines for Power Supplies and Igniters	FO GL-10

For the above mentioned publications please contact an OSRAM representative in your neighbourhood.



⁴ It is recommended to operate this lamp with rated current.