

Technical Information

No. FO 5314

Edition: 09/05 - subject to change

Substitutes: Edition 07/05

Status: valid

Mercury Short Arc Lamp
for Microlithography

HBO[®] 2011 W/NILH

■ Product description

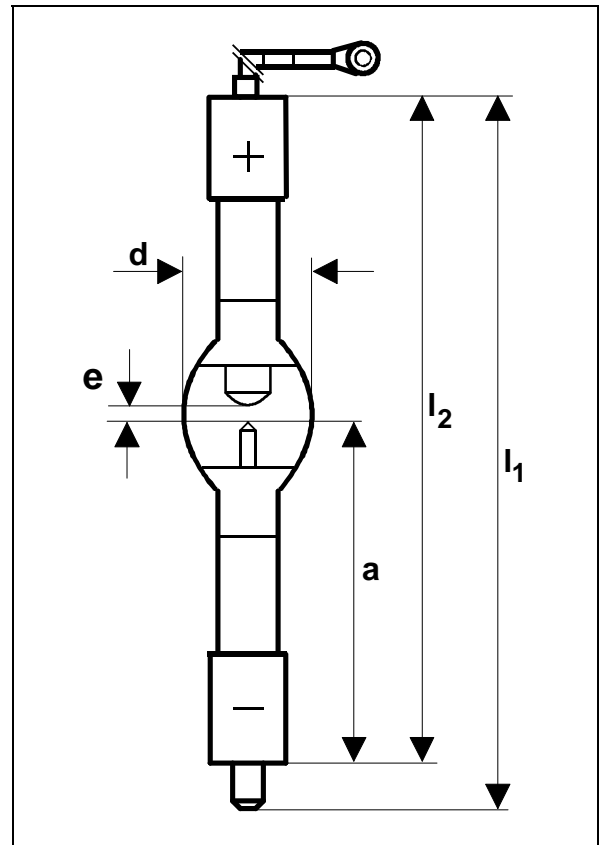
The OSRAM HBO[®] 2011 W/NILH is a direct current mercury short arc i-line lamp designed for the manufacture of integrated circuits (microlithography). This lamp type emits a very high radiant intensity in the ultraviolet and visible wavelength range and is especially suited for use in Nikon equipment (NSR-2205 i12D, i12E, TFH i12) in conjunction with the appropriate upgrade kit from Nikon. Approved by Nikon!

■ Technical data

Order reference		HBO [®] 2011 W/NILH
Rated lamp wattage	W	2,000
Rated lamp voltage	V	25
Rated lamp current (=)	A	80
Ignition voltage (cold)	kV _S	max. 20
Radiant intensity (wave length range 365 ± 2,5nm)	mW/sr	6,160
Electrode gap e (cold)	mm	4.5
Lamp length (overall) l ₁	mm	max. 256
Lamp length l ₂	mm	234
Bulb diameter d	mm	55
LCL a	mm	107.75
Guaranteed life	h	1,500

Base

- Cathode: SFc 27-12X1.5/35
- Anode: SFc 27-7/35 with cable connection (M8)



■ Lamp operation

Maximum permissible base temperature	°C	200
Cooling		forced base cooling
Burning position		vertical, anode (+) up

■ Safety Instruction

Because their high luminous efficacy, the UV radiation which they emit and the high pressure within the lamp, HBO[®] lamps may only be operated within enclosed, purpose-built housings. When a lamp breaks, mercury is released. Particular safety regulations should be paid attention (for details please request technical information sheet no. FO 4574).

The lamp contains overpressure even in cold status – additional safety regulations, supplied with the lamps, have to be fulfilled. Please read Technical bulletin DO-SEM TB 004 carefully.

