

16 000 h  
Lifetime

# Signals for the future.

Halogen signal lamps  
for 10V lighting systems

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## Straight swap

Innovative low-voltage tungsten-halogen lamps from OSRAM can be used as direct replacements for conventional low-voltage overpressure lamps because they have the same light centre length (LCL). Their geometry, luminous flux and electrical data comply with current standards (DIN 49842 Parts 1 and 3 and DIN 67527 Part 1), which means these lamps can be used in existing 10 V installations without the need for upgrades or adjustments.

## Lifetime of 16,000 hours

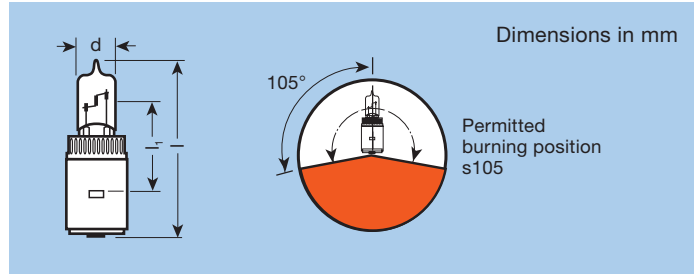
These improved halogen signal lamps from OSRAM each have an impressive rated life of 16,000. This far exceeds the lifetime of conventional signal lamps. The premature failure rate is just 2% after 16,000 hours\*.

## Much longer replacement intervals

Longer life and minimal loss of luminous flux means that the replacement intervals are much longer. The lamps can now be placed on a two-year cycle. The relamping cycle can then be combined with other scheduled maintenance work. This in turn will lead to a significant reduction in maintenance costs.

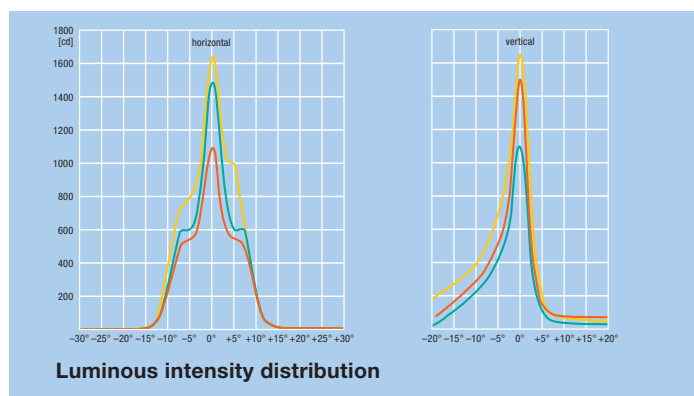
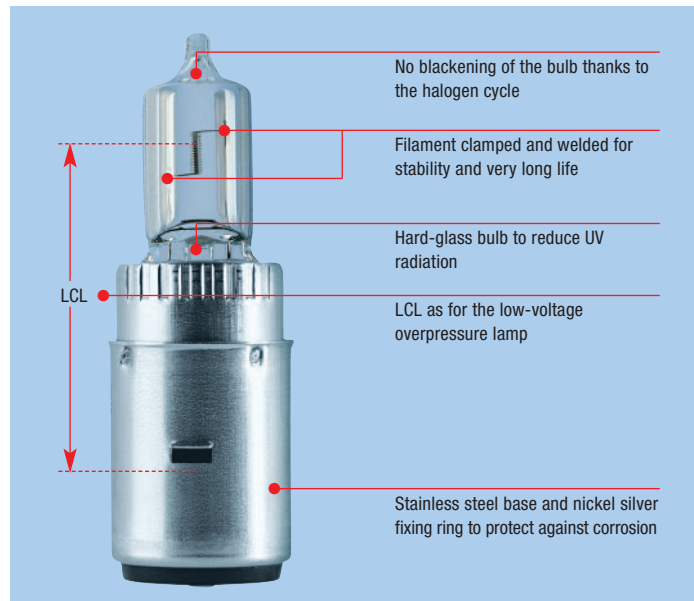
\* The premature failure rate is restricted to cases that are due to lamp faults and not to external influences.

## Technical data



Reference	SIG 64032	SIG 64033
Test voltage	10.5 V	10.5 V
Wattage	20 W	30 W
Luminous flux	270 lm	400 lm
Burning position	s 105	s 105
Diameter d max.	12.5 mm	12.5 mm
Length l max.	65 mm	65 mm
LCL I <sub>1</sub>	31.0 mm	31.0 mm
Base**	BA 20s	BA 20s
Normal/service pack	40/200 psc.	40/200 psc.

\*\* In accordance with DIN 49730, IEC 7004-12



Date: 3.3.1995

Lamp data:  
 Manufacturer: OSRAM  
 Type: SIG 64033 10 V/30 W  
 Luminous flux: 400 lm  
 Test voltage: 10.5 V

Signal data:  
 Manufacturer: Siemens  
 Size: 300 mm  
 Reflector: LV-deep

Diffuser data:  
 Manufacturer: DESAG  
 Structure: 5

## Other benefits

Compared with conventional signal lamps, halogen signal lamps from OSRAM offer further significant benefits:

- Minimal loss of luminous flux thanks to halogen cycle
- No loss of signal intensity due to blackening of the bulb within the maintenance interval (over 30% in the case of conventional low-voltage overpressure lamps)
- Simple, safe and reliable lamp replacement thanks to a handy fixing ring and cardboard tube protecting the bulb
- Permanent cement-free base prevents the bulb detaching
- Hard-glass bulb for UV protection and high resistance to vibration
- Extremely reliable operation thanks to intelligent design, corrosion-proof materials and innovative production techniques
- Approved by all major European signal manufacturers

## Operating instructions

These halogen signal lamps operate at high temperature and pressure. (They may therefore only be operated in signal equipment/luminaires especially designed for the purpose.) Make sure that the lamps are protected against moisture during operation and in particular during relamping. When installing a new lamp, handle it by its protective cardboard sleeve.