

**Information concerning the approval of  
a headlamp, passing and driving beams according R98**

France contemplates approving a headlamp designed to provide alternately a driving beam and passing beam as per R98.

- The passing beam is achieved by a gas-discharge light source R99.
- The driving beam is achieved by this same passing beam after raising its aim by + 2.5%, and also by a H7 filament lamp (in accordance with 6.3.2 in R98).

The paragraph 5.5 in R98 has the specifications applying to this headlamp:

- a) 50.000 activations
- b) in case of failure, the passing beam must be obtained automatically
- c) no possibility of in between the two positions
- d) no possibility modifying some components with ordinary tools..

In the case of this headlamp a) and d) are fulfilled.

Concerning b) and c): the system which allows switching from passing beam to driving beam is the gear-motor also used for the automatic levelling device under the effect of load (6.2.6 in R48). Thus, the main failures of the levelling device have been taken into account. This leaves apart the failures of the motor, which amount to 86 p.p.m per year.

In spite of this small probability of failure, and in the purpose of avoiding any risk of glare, the manufacturer proposes to provide an automatic switch-off of the beam, in case of no return to the passing beam, with activation of a failure tell-tale.

Under these conditions, the French authorities could accept the proposal.

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