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Working Party on Lighting and Light-Signalling (GRE)
(Forty-eighth session, 9-12 April 2002,
agenda item 2.4.)

PROPOSAL FOR DRAFT AMENDMENTS TO REGULATION No. 65

(Special warning lamps)

Addendum 1

Transmitted by the Experts from France and Germany

Note: The text reproduced below was prepared by the experts from France and Germany. It contains amendments to document TRANS/WP.29/GRE/2002/3 and for some paragraphs it presents proposals alternative to those of document TRANS/WP.29/GRE/2002/3. The introduction of a new category “H” for high intensity lamps should be the base for a broad acceptance of the proposed amendments to Regulation No. 65. The inserted text is in **bold** characters.

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Note: This document is distributed to the Experts on Lighting and Light-Signalling only.

A. PROPOSAL

Insert new paragraph 2.2.4. , to read:

"2.2.4. for a special warning lamp device put together by more than one separate unit by the installation on the vehicle, the geometrical arrangement as installed at the vehicle with specification of each unit and the maximum distance between the units according to paragraph 7.2.1. in Annex 5 shall be noted in accordance with paragraph 2.2.1."

Paragraphs 2.2.4. (former) and 2.2.5., renumber as paragraphs 2.2.5. and 2.2.6.

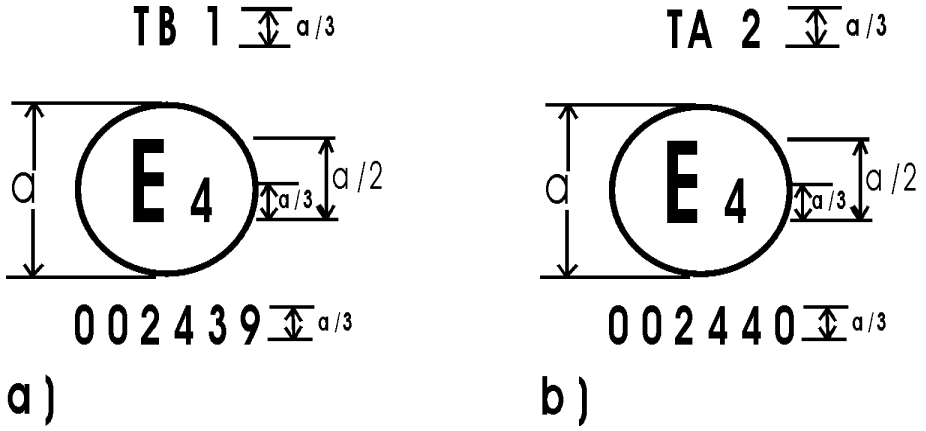
Annex 1, item 2, amend to read:

"2. Special warning lamp has one/ two levels of intensity 2/

Special warning lamp consists of ..... separate units."

Annex 2, the examples of the approval mark and the captions below, amend to read:

"

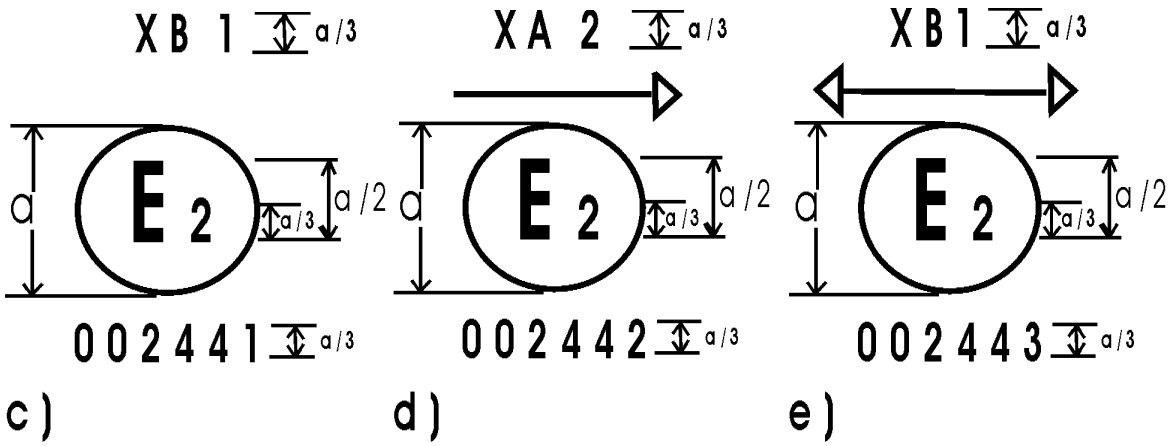


a ≥ 8 mm

The above approval mark affixed to

a) a special warning lamp indicates that it has been approved in the Netherlands (E4) under approval number 002439. The approval number shows that the approval was granted in accordance with the requirements of the Regulation in its original form and that it is a blue rotating or stationary flashing special warning lamp of class 1 (TB 1).

b) a directional flashing lamp indicates that it has been approved in the Netherlands (E4) under approval number 002440. The approval number shows that the approval was granted in accordance with the requirements of the Regulation in its original form and that it is a amber rotating or stationary flashing special warning lamp of class 2 (TA 2)."



a ≥ 8 mm

c) a directional flashing lamp indicates that it has been approved in France (E2) under approval number 002441. The approval number shows that the approval was granted in accordance with the requirements of the Regulation in its original form and that it is a blue directional flashing lamp of class 1 (XB 1).

The marking without an arrow indicates that the lamp has a narrow-angle effect.

d) a directional flashing lamp indicates that it has been approved in France (E2) under approval number 002442. The approval number shows that the approval was granted in accordance with the requirements of the Regulation in its original form and that it is a amber directional flashing lamp of class 2 (XA 2).

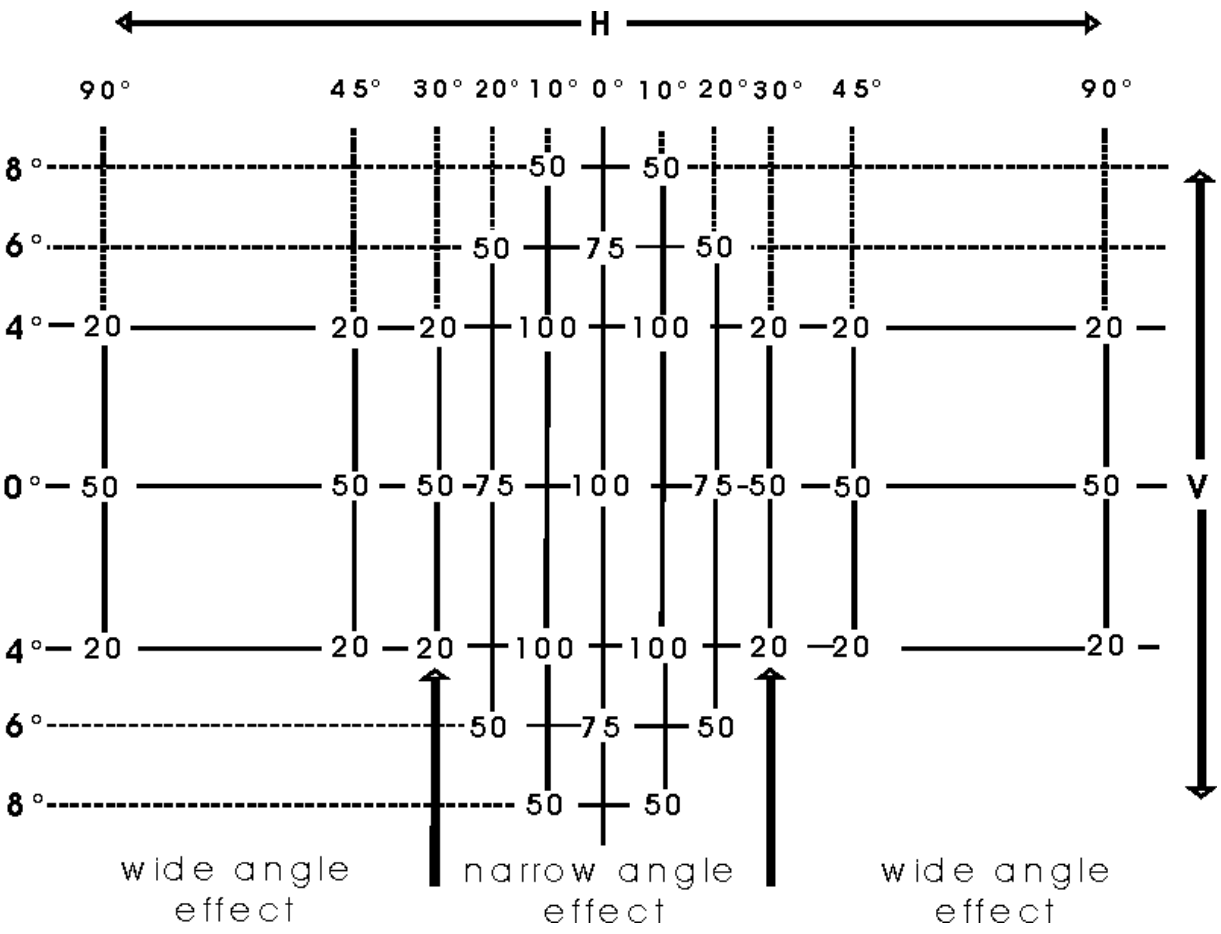
The arrow indicates that the lamp has a wide-angle effect on the side indicated by the direction in which the arrow is pointing, which also indicates the side of the vehicle on which the device is to be mounted.

e) a directional flashing lamp indicates that it has been approved in France (E2) under approval number 002443. The approval number shows that the approval was granted in accordance with the requirements of the Regulation in its original form and that it is a blue directional flashing lamp of class 1 (XB 1).

The double side arrow indicates that the lamp has a wide-angle effect to both sides, which also indicates that the lamp could be mounted on both side of the vehicle."

Annex 5, paragraph 7.3.1., amend to read:

"7.3.1. Table of standard light distribution for special warning flash lamp (Category X)



"Minimum horizontal angular range ....."

B. ALTERNATIVE PROPOSAL

Paragraph 2.1., amend to read:

"2.1. The application for approval of a special warning lamp shall be submitted by the owner of the trade name or mark or by his duly accredited representative. It shall specify whether the special warning lamp is intended to emit amber (A) or blue (B) light, whether it has one level of intensity (class 1) or two levels of intensity (class 2) and whether **of higher maximum intensity (category H)**."

Paragraph 4.4.1.3., amend to read:

"4.4.1.3. 'T' or 'X' according to the category of the unit, followed by **'H', according to the category of higher maximum intensity 1/, if applicable,**
and followed by 'A' or 'B' according to the colour of the unit (see paragraph 2.1. above).

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1/ The installation of this device may be forbidden on the basis of national regulations."

Annex 1, item 2., amend to read:

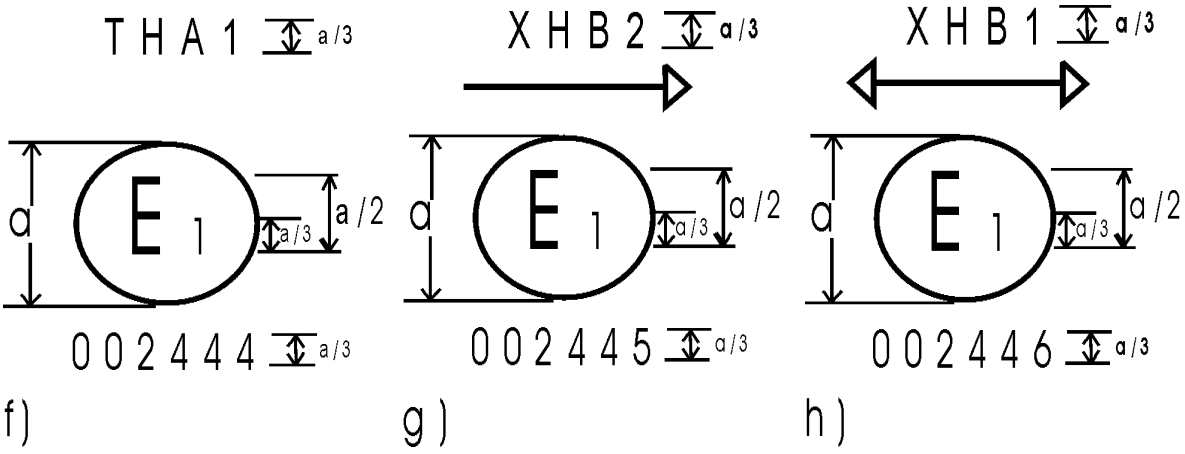
"2. Special warning lamp has one/ two levels of intensity 2/

Special warning lamp has high intensity: yes / no 2/

Special warning lamp put consists of ..... separate units."

Annex 2, add the following examples of approval marks and the corresponding captions, to read:

"



f) a directional flashing lamp indicates that it has been approved in Germany (E1) under approval number 002444. The approval number shows that the approval was granted in accordance with the requirements of the Regulation in its original form and that it is a amber rotating or stationary flashing special warning lamp with high maximum intensity of class 1 Category H (THA 1).

g) a directional flashing lamp indicates that it has been approved in Germany (E1) under approval number 002445. The approval number shows that the approval was granted in accordance with the requirements of the Regulation in its original form and that it is a blue directional flashing lamp of high maximum intensity class 2 category H (XHB 1).

The arrow indicates that the lamp has a wide-angle effect on the side indicated by the direction in which the arrow is pointing, which also indicates the side of the vehicle on which the device is to be mounted.

h) a directional flashing lamp indicates that it has been approved in Germany (E1) under approval number 002446. The approval number shows that the approval was granted in accordance with the requirements of the Regulation in its original form and that it is a blue directional flashing lamp of high maximum intensity class 1 category H (XHB 1). The double side arrow indicates that the lamp has a wide-angle effect to both sides, which also indicates that the lamp could be mounted on both side of the vehicle."

Paragraph 7.2. (new), amend to read:

"7.2. The effective luminous intensities (J_e) within the relevant vertical angles for a special warning lamp (Category T) shall be as specified in the table below:

Category T			Colour	
			blue	amber
Minimum value of the effective luminous intensity J_e, within the specified vertical angles and a horizontal angle of 360° around the reference axis	0°	by day	**140**	**300**
		by night	**60**	**130**
	± 4°	by day	**70**	**--**
		by night	**30**	**---**
	± 8°	by day	**----**	**220**
		by night	**----**	**90**
Maximum value of the effective luminous intensity J_e		**by day**	**1000**	
		by night	**300**	
Maximum value of the effective luminous intensity J_e **of category "TH"**	**Inside ± 2°**	**by day**	**2000**	
		by night	**1000**	
	Inside ± 8°	**by day**	**1500**	
		by night	**600**	
	Outside the above areas	**by day**	**1000**	
		by night	**300**	

"

Paragraph 7.3. (new), amend to read:

"7.3. The effective luminous intensities in the reference axis for a directional flashing lamp (Category X) shall be as specified in the table below:

Category X			Colour	
			blue	amber
Minimum value of the effective luminous intensity J_e on the reference axis	H = 0° V = 0°	by day	200	400
		by night	100	200
Maximum value of the effective inside		by day	**1000**	
		by night	**600**	
Maximum value of the effective luminous intensity J_e of category "XH"	inside H = ± 10° V = ± 4°	**by day**	**2000**	
		by night	**1000**	
	Inside H = ± 20° V = ± 8°	**by day**	**1500**	
		by night	**600**	
	Outside the above areas	**by day**	**1000**	
		by night	**300**	

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C. JUSTIFICATION

The proposals in the first part are to be seen as necessary additions to document TRANS/WP.29/GRE/2002/3.

The alternative proposal:

Regarding the discussion in the last sessions of GRE, this proposal is to be seen as an alternative solution with the introduction of a new category "H" for high intensity lamps. It shall give to the Contracting Parties to Regulation No.65 the possibility to forbid the use of lamps of higher intensity or rather of classes or categories of special warning, or to require these lamps in special cases, depending on the national laws. In principal, this procedure is used in the case of colours. Therefore, it should be no problem to extend this procedure also to the use of categories.

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