INDIA'S COMMENTS ON ECE REGULATION NO. 37

India suggests modification in the current text of the Regulation 37 as follows: (additions are marked in **bold** characters).

A. PROPOSAL

Annex 1

The list of categories of filament lamps, grouped, and their sheet numbers, amend to read:

Group 2:

Only for use in signalling lamps, cornering lamps, reversing lamps and rear registration plate lamps:

Category	Sheet number(s)
CSW	CEW/1
C5W	C5W/1
	D1011111 0
P13W	P13W/1 to 3
P18/5W	P18/5W/1 to 3
PR18/5W	PR18/5W/1 to 3
P19W	P19W/1 to 3
W5W	W5W/1
W10W	W10W/1
W16W	W16W/1
"	

The list of sheets for filament lamps and their sequence, amend to read:

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Sheet number(s)

...

C5W/1

...

P13W/1 to 3

P18/5W/1 to 3

PR18/5W/1 to 3

P19W/1 to 3

...

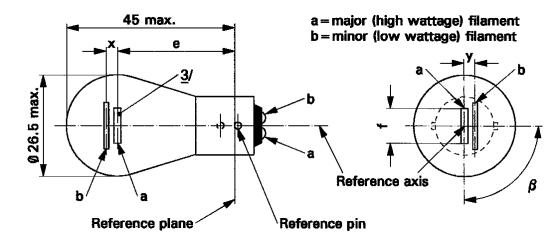
W5W/1

W10W/1

W16W/1
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Insert new sheets P18/5 /1 to 3, between sheet P13W/1 to 3 and sheet PR18/5 /1 to 3, to

The drawings are intended only to illustrate the essential dimensions (in mm) of the filament lamp



Dimensions in mm		Filament la	Standard filament lamp		
		min.	nom.	max.	
_	6, 12 V		31.8 <u>1</u> /		31.8 ± 0.3
e	24 V	30.8	31.8	32.8	
f	6, 12 V			7.0	7.0 + 0/- 2
Lateral deviation	6, 12 V			<u>1</u> /	0.3 max.
<u>2</u> /	24 V			1.5	
x, y	6, 12 V		<u>1</u> /		2.8 ± 0.3
X	24 V <u>3</u> /	-1.0	0	1.0	
y	24 V <u>3</u> /	1.8	2.8	3.8	
β		75°	90°	105°	90° ± 5°

Cap BAY15d in accordance with IEC Publication 60061 (sheet 7004-11B-7)

	ELECTRIC	AL ANI	рнот	OMET	RIC CI	IARAC	TERIS	TICS
Rated	Volts	6		12		24		12
values	Watts	18	5	18	5	18	5	18/5
Test voltage	Volts	6.75		13.5		28.0		13.5
Objective values	Watts	24.5 max.	6.6 max.	23.5 max.	6.6 max.	26.7 max.	11 max.	23.5 and 6.6 max.
	Luminous	325	35	325	35	325	40	
	flux ± %	15	20	15	20	15	20	

Reference luminous flux: 325 and 35 lm at approximately 13.5 V

For the notes see sheet P18/5W/2.

Notes

- 1/ These dimensions shall be checked by means of a "box-system". See sheets P18/5W/2 and P18/5W/3. "x" and "y" refer to the major (high-wattage) filament, not to the reference axis.
- 2/ Maximum lateral deviation of the major (high wattage) filament centre from two mutually perpendicular planes both containing the reference axis and one containing the axis of the reference pin.
- 3/ In this view the filaments of the 24 V type may be straight or V-shaped. This shall be indicated in the application of approval. If the filaments are straight, the screen projection requirements apply. If they are V-shaped, the ends of each filament shall be at the same distance within ± 3 mm from the reference plane.

Screen projection requirements

This test is used to determine, by checking whether:

- (a) the major (high wattage) filament is correctly positioned relative to the reference axis and reference plane and has an axis perpendicular, within \pm 15°, to the plane through the centres of the pins and the reference axis; and whether
- (b) the minor (low wattage) filament is correctly positioned relative to the major (high wattage) filament, whether a filament lamp complies with the requirements.

Test procedure and requirements

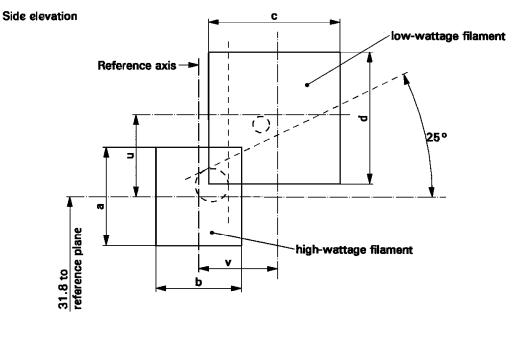
- 1. The filament lamp is placed in a holder capable of being rotated about its axis and having either a calibrated scale or fixed stops corresponding to the angular displacement tolerance limits. (i.e. 15°). The holder is then so rotated that an end view of the major filament is seen on the screen on which the image of the filament is projected. The end view of that filament shall be obtained within the angular displacement tolerance limits.
- 2. Side elevation

 The filament lamp placed with the cap down, the reference axis vertical, the reference pin to the right and the major filament seen end-on:
- 2.1. the projection of the major filament shall lie entirely within a rectangle of height "a" and width "b", having its centre at the theoretical position of the centre of the filament;
- 2.2. the projection of the minor filament shall lie entirely:
- 2.2.1. within a rectangle of width "c" and height "d" having its centre at a distance "v" to the right of and at a distance "u" above the theoretical position of the centre of the major filament;
- 2.2.2. above a straight line tangential to the upper edge of the projection of the major filament and rising from left to right at an angle of 25°.
- 2.2.3. to the right of the projection of the major filament.
- 3. Front elevation

The filament lamp being placed with the cap down and the reference axis vertical, the filament lamp being viewed in a direction at right angles to axis of the major filament:

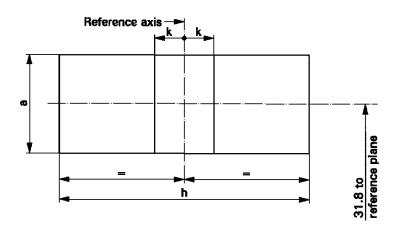
- 3.1. the projection of the major filament shall lie entirely within a rectangle of height "a" and width "h", centred on the theoretical position of the centre of the filament;
- 3.2. the centre of the major filament shall not be offset by more than distance "k" from the reference axis.
- 3.3. the centre of the minor filament axis shall not be offset from the reference axis by more than \pm 2 mm (\pm 0.4 mm for standard filament lamps).

Dimensions in mm



Reference	а	b	С	d	u	v
Dimensions	3.5	3.0	4.	.8	2.	.8

Front elevation

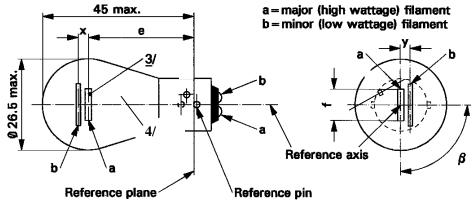


Reference	a	h	k
Dimensions	3.5	9.0	1.0

CATEGORY PR18/5W

Sheet PR18/5W/1

The drawings are intended only to illustrate the essential dimensions (in mm) of the filament lamp



Dimensions in	n mm	Filament lan	Standard filament lamp		
		min. nom. max.		<u>5</u> /	
	12 V		31.8 ½		31.8 ± 0.3
e	24 V	30.8	31.8	32.8	
f	12 V			7.0	7.0 + 0/- 2
Lateral deviation	12 V			<u>1</u> /	0.3 max.
<u>2</u> /	24 V			1.5	
x, y	12 V		1/		2.8 ± 0.3
x	24 V 3/	-1.0	0	1.0	
у	24 V 3/	1.8	2.8	3.8	
β		75°	90°	105°	90° ± 5°

Cap BAW15d in accordance with IEC Publication 60061 (sheet 7004-11E-1)

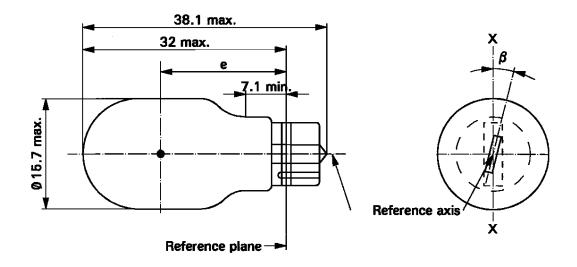
Rated Volts 12 24

Rated	Volts	1	12		24	12
values	Watts	18	5	18	5	18/5
Test voltage	Volts	13	3.5	28	8.0	13.5
011 4	Watts	23.5 max.	6.6 max.	26.7 max.	11 max.	23.5 and 6.6 max.
Objective values	Luminous	76	8	76	10	
varacs	flux ± %	20	25	20	25	

Reference luminous flux at approximately 13.5 V: White: 325 lm and 35 lm Red: 76 lm and 8 lm

- 1/ See footnote 1/ on sheet P18/5W/2.
- 2/ See footnote 2/ on sheet P18/5W/2.
- 3/ See footnote 3/ on sheet P18/5W/2.
- 4/ The light emitted from normal production lamps shall be red (see also note 5/).
- 5/ The light emitted from standard filament lamps shall be white or red.

The drawings are intended only to illustrate the essential dimensions (in mm) of the filament lamp



Dimensions in mm	Filam	ent lamps of a production	Standard filament lamp	
	min.	nom.	max.	
e	18.3	20.6	22.9	20.6 ± 0.3
Lateral deviation 1/			1.0	0.5 max.
β	-15°	0 °	+ 15°	0° ± 5°

Cap W2.1x9.5d in accordance with IEC Publication 60061 (sheet 7004-91-3)

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	ELECTRICAL	AND PHOTOMETRIC CHARACT	ERISTICS			
Dated values	Volts	12	12			
Rated values Watts		10	10			
Test voltage	Volts	13.5	13.5			
Objective	Watts	11 max.	11 max.			
values Luminous flux 125 ± 20 %						
Reference lum	inous flux: 125 l	m at approximately 13.5 V				

1/ Maximum lateral deviation of filament centre from two mutually perpendicular planes both containing the reference axis and one containing axis X-X.

JUSTIFICATION

This proposal is intended to introduce into Regulation No. 37 new P18/5W, PR18/5W and W10W light source categories for signalling lamps.

P18/5W, PR18/5W would be suitable alternative to P21/5W, PR21/5W respectively for use in Stop/rear position lamp for 2 wheelers. It will be possible to meet the photometric requirements with 18W filament (5:1 ratio of relative brightness). In the case of reduction in wattage of lamps will be of considerable advantage in designing the magneto, and system for regulating battery charging.

W10W category lamp is proposed which can be used for signalling lamps such as direction indicator lamp, position lamp, etc. as an wedge based alternative to R10W.
