

# SENATE BILL NO. 711

103RD GENERAL ASSEMBLY

INTRODUCED BY SENATOR NICOLA.

2861S.011

KRISTINA MARTIN, Secretary

## AN ACT

To repeal section 307.128, RSMo, and to enact in lieu thereof one new section relating to motorcycle auxiliary lighting.

*Be it enacted by the General Assembly of the State of Missouri, as follows:*

Section A. Section 307.128, RSMo, is repealed and one new  
2 section enacted in lieu thereof, to be known as section 307.128,  
3 to read as follows:

307.128. 1. A headlamp on a motorcycle may be wired  
2 to modulate either the upper beam or the lower beam from its  
3 maximum intensity to a lesser intensity provided that:

4 (1) The rate of modulation shall be two hundred forty  
5 plus or minus forty cycles per minute;

6 (2) The headlamp shall be operated at a maximum power  
7 for fifty to seventy percent of each cycle;

8 (3) The lowest intensity at any test point shall not  
9 be less than seventeen percent of the maximum intensity  
10 measured at the same point;

11 (4) The modulator switch shall be wired in the power  
12 lead of the beam filament being modulated and not in the  
13 ground side of the circuit;

14 (5) Means shall be provided so that both the lower  
15 beam and the upper beam remain operable in the event of a  
16 modulation failure;

17 (6) The system shall include a sensor mounted with the  
18 axis of its sensing element perpendicular to a horizontal

**EXPLANATION-Matter enclosed in bold-faced brackets [thus] in this bill is not enacted and is intended to be omitted in the law.**

19 plane. Headlamp modulation shall cease whenever the level  
20 of light emitted by a tungsten filament operating at three  
21 thousand degrees kelvin is either less than two hundred  
22 seventy lux of direct light for upward pointing sensors or  
23 less than sixty lux of reflected light for downward pointing  
24 sensors. The light is measured by a silicon cell type light  
25 meter that is located at the sensor and pointing in the same  
26 direction as the sensor. A photo gray card is placed at  
27 ground level to simulate the road surface in testing  
28 downward pointing sensors;

29 (7) Means shall be provided so that both the lower and  
30 upper beam function at design voltage when the headlamp  
31 control switch is in either the lower or upper beam position  
32 when the modulator is off.

33 2. Each motorcycle headlamp modulator not intended as  
34 original equipment, or its container, shall be labeled with  
35 the maximum wattage, and the minimum wattage appropriate for  
36 its use. Additionally, each such modulator shall comply  
37 with the provisions of subdivisions (1) to (7) of subsection  
38 1 of this section when connected to a headlamp of the  
39 maximum-rated power and headlamp of the minimum-rated power,  
40 and shall provide means so that the modulated beam functions  
41 at design voltage when the modulator is off. Instructions,  
42 with a diagram, shall be provided for mounting the light  
43 sensor including location on the motorcycle, distance above  
44 the road surface, and orientation with respect to the light.

45 3. Notwithstanding any other provision of law, subject  
46 to the requirements of subsection 4 of this section, a  
47 motorcycle may be equipped with, and an operator of a  
48 motorcycle may use, the following auxiliary lighting:

- 49 (1) **[Amber and white] Any color** illumination;  
50 (2) Standard bulb running lights; or

51           (3) Light-emitting diode pods and strips.  
52           4. Lighting under subsection 3 of this section shall  
53 be:  
54           (1) Nonblinking;  
55           (2) Nonflashing;  
56           (3) Nonoscillating; and  
57           (4) Directed toward the engine and the drive train of  
58 the motorcycle to prevent interference with the driver's  
59 operation of the vehicle.

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