

Council Directive 93/92/EEC of 29 October 1993 on the installation of lighting and light-signalling devices on two or three-wheel motor vehicles (repealed)

- Article 1 This Directive applies to the installation of lighting and light-signalling...
- Article 2 The procedure governing the granting of component type-approval in respect...
- Article 3 In accordance with Article 11 of Directive 92/61/EEC, equivalence between...
- Article 4 Any amendments necessary in order to adapt Annexes I to...
- Article 5 Member States which, in their national law concerning the installation...
- Article 6 (1) Member States shall adopt and publish the provisions necessary...
- Article 7 This Directive is addressed to the Member States.

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ANNEX I

DEFINITIONS AND GENERAL REQUIREMENTS

A. DEFINITIONS

1. vehicle type
  - 1.1. the dimensions and outer shape of the vehicle;
  - 1.2. the number and positioning of the devices;
  - 1.3. the following are, likewise, considered not to be 'vehicles of...'
    - 1.3.1. vehicles which differ within the meaning of 1.1 and 1.2...
    - 1.3.2. vehicles on which optional lamps component type-approved by virtue of...
2. transverse plane
3. unladen vehicle
4. device
5. lamp
  - 5.1. single lamp
  - 5.2. equivalent lamps
  - 5.3. independent lamps
  - 5.4. grouped lamps
  - 5.5. combined lamps
  - 5.6. reciprocally incorporated lamps
  - 5.7. main-beam headlamp
  - 5.8. dipped-beam headlamp
  - 5.9. direction indicator lamp
  - 5.10. stop lamp
  - 5.11. front position lamp
  - 5.12. rear position lamp
  - 5.13. front fog lamp
  - 5.14. rear fog lamp
  - 5.15. reversing lamp

- 5.16. hazard warning signal
- 5.17. rear registration plate lamp
- 5.18. retro reflector
- 6. illuminating surface (see Appendix 1)
  - 6.1. light-emitting surface of a lighting device or retro reflector means...
  - 6.2. illuminating surface of a lighting device (see 5.7, 5.8, 5.13...
  - 6.3. illuminating surface of a light-signalling device other than a retro-reflector...
  - 6.4. illuminating surface of a retro reflector (5.18)
- 7. apparent surface
- 8. axis of reference
- 9. centre of reference or reference centre
- 10. angles of geometric visibility
- 11. extreme outer edge
  - 11.1. the rear-view mirrors;
  - 11.2. the direction indicator lamps;
- 12. overall width
- 13. distance between two lamps pointing in the same direction
- 14. operational telltale
- 15. circuit-closed telltale

## B. GENERAL SPECIFICATIONS

- 1. The lighting and light-signalling devices must be so installed that...
- 2. The illuminating lamps must be so fitted that their alignment...
- 3. For all light-signalling devices the reference axis of the lamp...
- 4. The height and alignment of lamps are checked, in the...
- 5. In the absence of specific requirements, lamps constituting a pair...
  - 5.1. be installed on the vehicle symmetrically in relation to the...
  - 5.2. be symmetrical to each other in relation to the median...
  - 5.3. fulfil the same colorimetric requirements;
  - 5.4. have substantially identical photometric characteristics.
- 6. In the absence of specific instructions, lamps having different functions...
- 7. The maximum height above ground is measured from the highest...
- 8. In the absence of specific requirements no lamps other than...
- 9. No red lamp must be visible towards the front and...
  - 9.1. for the visibility of a red lamp towards the front:...
  - 9.2. for the visibility of a white lamp towards the rear:...
  - 9.3. Zones 1 and 2, as seen by the observer, are...
    - 9.3.1. as regards height, two horizontal planes which are 1 m...
    - 9.3.2. as regards width, by two vertical planes making an angle...
- 10. The electrical connections must be such that the front position...
- 11. In the absence of specific requirements, the electrical connections must...
- 12. Telltales
  - 12.1. All telltales must be clearly visible to the driver in...
  - 12.2. Where provision has been made for a circuit-closed telltale it...
- 13. Colours emitted by the lamps:
- 14. All lighting and light-signalling devices must be component type-approved. However,...

## Appendix 1

Lamp surfaces, axis and centre of reference, and angles of geometric visibility

NB:

## Appendix 2

Definition of lamp colours

TRICHROMATIC COORDINATES

## ANNEX II

### REQUIREMENTS CONCERNING TWO-WHEEL MOPEDS

1. Without prejudice to the provisions of Section B 14 of...
  - 1.1. dipped-beam headlamp;
  - 1.2. rear position lamp;
  - 1.3. stop lamp. This requirement does not apply to mopeds covered...
  - 1.4. non-triangular side retro-reflectors;
  - 1.5. non-triangular rear retro-reflectors;
  - 1.6. pedal retro-reflectors only where two-wheel mopeds are fitted with non-retractable...
2. In addition all two-wheel mopeds may be fitted with the...
  - 2.1. main-beam headlamp;
  - 2.2. direction indicator lamps;
  - 2.3. rear registration plate lamp;
  - 2.4. front position lamp;
  - 2.5. non-triangular front retro-reflectors.
3. Each of the lighting and light-signalling devices referred to in...
4. No lighting and light-signalling device other than those referred to...
5. The lighting and light-signalling devices referred to in sections 1...

### 6. SPECIFIC FITTING REQUIREMENTS

- 6.1. Main-beam headlamps
  - 6.1.1. Number: one or two
  - 6.1.2. Arrangement drawing: no individual specifications
  - 6.1.3. Location
    - 6.1.3.1. Width:
    - 6.1.3.2. The length: at the front of the vehicle. This requirement...
    - 6.1.3.3. In any case, the distance between the edge of the...
    - 6.1.3.4. The distance separating the illuminating surfaces of two main-beam headlamps...
  - 6.1.4. Geometrical visibility
  - 6.1.5. Alignment: forwards

- 6.1.6. May be grouped together with the dipped-beam headlamp and the...
- 6.1.7. May not be combined with any other lamp.
- 6.1.8. May be reciprocal, incorporated:
  - 6.1.8.1. with the dipped-beam headlamp;
  - 6.1.8.2. with the front position lamp.
- 6.1.9. Electrical connections
- 6.1.10. Circuit-closed telltale: optional.
- 6.2. Dipped-beam headlamps
  - 6.2.1. Number: one or two.
  - 6.2.2. Arrangement drawing: no individual specifications.
  - 6.2.3. Position
    - 6.2.3.1. Width:
    - 6.2.3.2. Height: a minimum of 500 mm and a maximum of...
    - 6.2.3.3. Length: at the front of the vehicle this requirement is...
    - 6.2.3.4. In the case of two dipped-beam headlamps the distance separating...
  - 6.2.4. Geometric visibility
  - 6.2.5. Alignment forwards
  - 6.2.6. May be grouped together with the main-beam headlamp and the...
  - 6.2.7. May not be combined with any other lamps.
  - 6.2.8. May be reciprocally incorporated with the main-beam headlamp and the...
  - 6.2.9. Electrical connections
  - 6.2.10. Circuit-closed telltale: optional.
  - 6.2.11. Other requirements: none.
- 6.3. Direction indicator lamps
  - 6.3.1. Two per side.
  - 6.3.2. Arrangement drawing: two front and two rear indicator lamps.
  - 6.3.3. Position
    - 6.3.3.1. Width:
      - 6.3.3.1.1 The following apply simultaneously to front indicator lamps:
        - 6.3.3.1.1.1 There must be a minimum distance of 240 mm between...
        - 6.3.3.1.1.2 They must be situated outside the vertical longitudinal planes that...
        - 6.3.3.1.1.3 minimum distance between the illuminating surfaces of the indicators...
        - 6.3.3.1.1.4 The distance between the inner edges of the illuminating surfaces...
      - 6.3.3.1.2 The distance between the inner edges of the illuminating surfaces...
    - 6.3.3.2. Height: minimum 350 mm, maximum 1 200 mm above the...
    - 6.3.3.3. Length: the distance towards the front between the transverse plane...
  - 6.3.4. Geometric visibility
  - 6.3.5. Alignment
  - 6.3.6. May be grouped with one or more lamps.
  - 6.3.7. May not be combined with any other lamp.
  - 6.3.8. May not be reciprocally incorporated with another lamp.
  - 6.3.9. Electrical connections
  - 6.3.10. Operational telltale: optional.
  - 6.3.11. Other requirements
    - 6.3.11.1 Actuation of the light-signalling device control must be followed by...

- 6.3.11.2 In the case of all vehicles the direction indicator lamps...
    - 6.3.11.2.1 the flashing-light frequency must be  $90 \pm 30$  times per...
    - 6.3.11.2.2 the direction indicator lamps on the same side of the...
  - 6.3.11.3 Where a vehicle is fitted with direction indicator lamps which...
    - 6.3.11.3.1 the lights must flash at a frequency of  $90 \pm \dots$
    - 6.3.11.3.2 the direction indicator lamps may flash on the same side...
  - 6.3.11.4 Where the direction indicator lamps fitted to a vehicle are...
    - 6.3.11.4.1 the flashing frequency must lie between  $90 + 30$  and...
    - 6.3.11.4.2 direction indicator lamps on the same side of the vehicle...
  - 6.3.11.5 In the event of failure, other than a short circuit,...
- 6.4. Stop lamps
    - 6.4.1. Number: one or two.
    - 6.4.2. Arrangement drawing: no individual specifications.
    - 6.4.3. Position
      - 6.4.3.1. Width: if there is only one stop lamp its centre...
      - 6.4.3.2. Height: minimum 250 mm, maximum 1 500 mm above ground...
      - 6.4.3.3. Length: at the rear of the vehicle.
    - 6.4.4. Geometric visibility
    - 6.4.5. Alignment: towards the rear of the vehicle.
    - 6.4.6. May be grouped with one or more other rear lamps....
    - 6.4.7. May not be combined with another lamp.
    - 6.4.8. May be reciprocally incorporated with the rear position lamp.
    - 6.4.9. Operational electrical connection: must light up whenever at least one...
    - 6.4.10. Circuit-closed telltale: prohibited.
  - 6.5. Front position lamps
    - 6.5.1. Number: one or two.
    - 6.5.2. Arrangement drawing: no individual specifications.
    - 6.5.3. Position
      - 6.5.3.1. Width:
      - 6.5.3.2. Height: minimum 350 mm, maximum 1 200 mm above the...
      - 6.5.3.3. Length: at front of vehicle.
    - 6.5.4. Geometric visibility
    - 6.5.5. Alignment: towards the front.
    - 6.5.6. May be grouped with any other front lamp.
    - 6.5.7. May be reciprocally incorporated with any other front lamp.
    - 6.5.8. Operational electrical connections: no individual specifications.
    - 6.5.9. Circuit-closed telltale: optional.
    - 6.5.10. Other requirements: none.
  - 6.6. Rear position lamps
    - 6.6.1. Number: one or two.
    - 6.6.2. Arrangement drawing: no individual specifications.
    - 6.6.3. Position
      - 6.6.3.1. Width: the reference centre must be located within the median...
      - 6.6.3.2. Height: minimum 250 mm, maximum 1 500 mm above the...
      - 6.6.3.3. Length: at rear of vehicle.
    - 6.6.4. Geometric visibility
    - 6.6.5. Alignment: towards the rear.

- 6.6.6. May be grouped with any other rear lamp.
- 6.6.7. May be reciprocally incorporated with the stop lamp or non-triangular...
- 6.6.8. Operational electric connections: no individual specification.
- 6.6.9. Circuit-closed telltale: optional.
- 6.6.10. Other requirements: none.
- 6.7. Non-triangular side retro-reflectors
  - 6.7.1. Number per side: one or two class IA.
  - 6.7.2. Arrangement drawing: no individual specifications.
  - 6.7.3. Position
    - 6.7.3.1. Width: no individual specifications.
    - 6.7.3.2. Height: 300 mm minimum, 900 mm maximum above the ground....
    - 6.7.3.3. Length: should be such that, under normal conditions, the device...
  - 6.7.4. Geometric visibility
  - 6.7.5. Alignment : the reference axis of the retro-reflectors must be...
  - 6.7.6. May be grouped with other signalling devices.
- 6.8. Non-triangular rear retro-reflectors
  - 6.8.1. Number: one class IA.
  - 6.8.2. Arrangement drawing: no individual specifications.
  - 6.8.3. Position
    - 6.8.3.1. Width: the reference centre must be located within the median...
    - 6.8.3.2. Height: minimum 250 mm, maximum 900 mm above the ground....
    - 6.8.3.3. Length: at rear of vehicle.
  - 6.8.4. Geometric visibility
  - 6.8.5. Alignment: towards the rear.
  - 6.8.6. May be grouped with any other lamp.
  - 6.8.7. Other requirements: the illuminating surface of the reflector may have...
- 6.9. Pedal retro-reflectors
  - 6.9.1. Each pedal of a two-wheel moped must be fitted with...
  - 6.9.2. Arrangement drawing: no individual specification.
  - 6.9.3. Other requirements
- 6.10. Non-triangular front retro-reflector
  - 6.10.1. Number: 1 of Class IA.
  - 6.10.2. Arrangement drawing: no individual specification.
  - 6.10.3. Position
    - 6.10.3.1. Width: the reference centre must be located within the median...
    - 6.10.3.2. Height: minimum 400 mm, maximum 1 200 mm above the...
    - 6.10.3.3. Length: at front of vehicle.
  - 6.10.4. Geometric visibility
  - 6.10.5. Alignment: towards the front. May pivot in line with the...
  - 6.10.6. May be grouped with one or more lamps.
  - 6.10.7. Other specifications: none.
- 6.11. Rear registration plate lamp

## Appendix 1

Visibility of red lights towards the front and white lights towards the rear

## Appendix 2

Arrangement drawing

## Appendix 3

Information document in respect of the installation of lighting and light-signalling devices on a type of two-wheel moped

## Appendix 4

## ANNEX III

### REQUIREMENTS CONCERNING THREE-WHEEL MOPEDS AND LIGHT QUADRICYCLES

1. All three-wheel mopeds must be fitted with the following lighting...
  - 1.1. dipped-beam headlamp;
  - 1.2. front position lamp;
  - 1.3. rear position lamp;
  - 1.4. non-triangular rear retro-reflectors;
  - 1.5. pedal retro reflectors only where two-wheel mopeds are fitted with...
  - 1.6. stop lamp;
  - 1.7. direction indicator lamps for three-wheel mopeds with closed bodywork.
2. In addition all three-wheel mopeds may be fitted with the...
  - 2.1. main-beam headlamp;
  - 2.2. direction indicator lamps, for three-wheel mopeds without closed bodywork;
  - 2.3. rear registration plate lamp;
  - 2.4. non-triangular side retro-reflectors;
  - 2.5. front fog lamp;
  - 2.6. rear fog lamp;
  - 2.7. reversing lamp;
  - 2.8. hazard warning device;
3. Each of the lighting and light-signalling devices referred to in...
4. No lighting and light-signalling device other than those referred to...
5. The lighting and light-signalling devices referred to in sections 1...
6. SPECIFIC FITTING REQUIREMENTS

- 6.1. Main-beam headlamps
  - 6.1.1. Number: one or two.
  - 6.1.2. Arrangement drawing: no individual specifications.
  - 6.1.3. Location
    - 6.1.3.1. Width:
    - 6.1.3.2. The length: at the front of the vehicle. This requirement...
    - 6.1.3.3. In the case of a single independent main-beam headlamp, the...
  - 6.1.4. Geometrical visibility
  - 6.1.5. Alignment: forwards.
  - 6.1.6. May be grouped together with the dipped-beam headlamp and the...
  - 6.1.7. May not be combined with any other lamp.
  - 6.1.8. May be reciprocally incorporated:
    - 6.1.8.1. with the dipped-beam headlamp;
    - 6.1.8.2. with the front position lamp.
  - 6.1.9. Electrical connections
  - 6.1.10. Circuit-closed telltale: optional.
- 6.2. Dipped-beam headlamps
  - 6.2.1. Number: one or two.
  - 6.2.2. Arrangement drawing: no particular specification.
  - 6.2.3. Position
    - 6.2.3.1. Width:
    - 6.2.3.2. Height: a minimum of 500 mm and a maximum of...
    - 6.2.3.3. Length: at the front of the vehicle this requirement is...
  - 6.2.4. Geometric visibility
  - 6.2.5. Alignment forwards.
  - 6.2.6. May be grouped together with the main-headlamp and the front...
  - 6.2.7. May not be combined with any other lamp.
  - 6.2.8. May be reciprocally incorporated with the main headlamp and the...
  - 6.2.9. Electrical connections
  - 6.2.10. Circuit-closed telltale: optional.
  - 6.2.11. Other requirements: none.
- 6.3. Direction indicator lamps
  - 6.3.1. Number: two per side.
  - 6.3.2. Arrangement drawing: two front and two rear indicator lamps.
  - 6.3.3. Position
    - 6.3.3.1. Width:
    - 6.3.3.2. Height: minimum 350 mm, maximum 1 500 mm above the...
  - 6.3.4. Geometric visibility
  - 6.3.5. Alignment
  - 6.3.6. May be grouped with one or more lamps.
  - 6.3.7. May not be combined with any other lamp.
  - 6.3.8. May not be reciprocally incorporated with another lamp.
  - 6.3.9. Electrical connections
  - 6.3.10. Operational telltale: optional.
  - 6.3.11. Other requirements
    - 6.3.11.1 Actuation of the light-signalling device control must be followed by...
    - 6.3.11.2 In the case of all vehicles the direction indicator lamps...
      - 6.3.11.2.1 the flashing-light frequency must be  $90 \pm 30$  times per...
      - 6.3.11.2.2 the direction indicator lamps on the same side of the...
    - 6.3.11.3 Where a vehicle is fitted with direction indicator lamps which...



- 6.3.11.3 the lights must flash at a frequency of  $90 \pm \dots$
- 6.3.11.3 the direction indicator lamps may flash on the same side...
- 6.3.11.4 Where the direction indicator lamps fitted to a vehicle are...
  - 6.3.11.4 the flashing frequency must be between  $90 + 30$  and...
  - 6.3.11.4 direction indicator lamps on the same side of the vehicle...
  - 6.3.11.5 In the event of failure, other than a short circuit,...
- 6.4. Stop lamps
  - 6.4.1. Number: one or two. However, for three-wheel mopeds with a...
  - 6.4.2. Arrangement drawing: no individual specifications.
  - 6.4.3. Position
    - 6.4.3.1. Width: if there is only one stop lamp its centre...
    - 6.4.3.2. Height: minimum 250 mm, maximum 1 500 mm above ground...
    - 6.4.3.3. Length: at the rear of the vehicle.
  - 6.4.4. Geometric visibility:
  - 6.4.5. Alignment: towards the rear of the vehicle.
  - 6.4.6. May be grouped with one or more other rear lamps....
  - 6.4.7. May not be combined with any other lamp.
  - 6.4.8. May be reciprocally incorporated with the rear position lamp.
  - 6.4.9. Electrical connection: must light up whenever at least one of...
  - 6.4.10. Circuit-closed telltale: prohibited.
- 6.5. Front position lamps
  - 6.5.1. Number: one or two.
  - 6.5.2. Arrangement drawing: no individual specifications.
  - 6.5.3. Position
    - 6.5.3.1. Width:
    - 6.5.3.2. Height: minimum 350 mm, maximum 1 200 mm above the...
    - 6.5.3.3. Length: at front of vehicle.
  - 6.5.4. Geometric visibility
  - 6.5.5. Alignment: towards the front.
  - 6.5.6. May be grouped with any other front lamp.
  - 6.5.7. May be reciprocally incorporated with any other front lamp.
  - 6.5.8. Electrical connections: no particular specification.
  - 6.5.9. Circuit-closed telltale: optional.
  - 6.5.10. Other requirements: none.
- 6.6. Rear position lamps
  - 6.6.1. Number: one or two.
  - 6.6.2. Arrangement drawing: no individual specifications.
  - 6.6.3. Position
    - 6.6.3.1. Width: the reference centre must be located within the median...
    - 6.6.3.2. Height: minimum 250 mm, maximum 1 500 mm above the...
    - 6.6.3.3. Length: at rear of vehicle.
  - 6.6.4. Geometric visibility
  - 6.6.5. Alignment: towards the rear.
  - 6.6.6. May be grouped with any other rear lamp.
  - 6.6.7. May be reciprocally incorporated with the stop lamp or non-triangular...
  - 6.6.8. Electrical connections: no particular specification.
  - 6.6.9. Circuit-closed telltale: optional.
  - 6.6.10. Other requirements: none.

- 6.7. Non-triangular rear retro-reflectors
  - 6.7.1. Number: one or two class IA.
  - 6.7.2. Arrangement drawing: no individual specifications.
  - 6.7.3. Position
    - 6.7.3.1. Width: the reference centre must be located within the median...
    - 6.7.3.2. Height: minimum 250 mm, maximum 900 mm above the ground....
    - 6.7.3.3. Length: at rear of vehicle.
  - 6.7.4. Geometric visibility
  - 6.7.5. Alignment: towards the rear.
  - 6.7.6. May be grouped with any other lamp.
  - 6.7.7. Other requirements: the illuminating surface of the retro-reflector may have...
- 6.8. Pedal retro-reflectors
  - 6.8.1. Number: four retro-reflectors or groups of retro-reflectors.
  - 6.8.2. Arrangement drawing: no individual specifications.
  - 6.8.3. Other requirements
- 6.9. Non-triangular side retro-reflectors
  - 6.9.1. Number per side: one or two of class IA.
  - 6.9.2. Arrangements drawing: no individual specifications.
  - 6.9.3. Position
    - 6.9.3.1. Width: no individual specifications.
    - 6.9.3.2. Height: minimum 300 mm, maximum 900 mm above the ground....
    - 6.9.3.3. Length: must be such that, under normal conditions, the device...
  - 6.9.4. Geometric visibility
  - 6.9.5. Position: the reference axis of the retro reflectors must be...
  - 6.9.6. May be grouped with other signalling devices.
- 6.10. Rear registration plate lamp
- 6.11. Front fog lamps
  - 6.11.1. Provisions identical to those set out in items 6.7.1 to...
- 6.12. Rear fog lamps
  - 6.12.1. Provisions identical to those set out in items 6.8.1 to...
- 6.13. Reversing lamps
  - 6.13.1. Provisions identical to those set out in items 6.9.1 to...
- 6.14. Hazard warning device
  - 6.14.1. Provisions identical to those set out in items 6.10.1 to...

## Appendix 1

Visibility of red lights towards the front and white lights towards the rear

## Appendix 2

Arrangement drawing

### Appendix 3

Information document in respect of the installation of lighting and light-signalling devices on a type of three-wheel moped

### Appendix 4

## ANNEX IV

### REQUIREMENTS CONCERNING TWO-WHEEL MOTORCYCLES

1. All two-wheel motorcycles must be fitted with the following lighting...
  - 1.1. main-beam headlamp;
  - 1.2. dipped-beam lamp;
  - 1.3. direction indicator lamps;
  - 1.4. stop lamp;
  - 1.5. front position lamp;
  - 1.6. rear position lamp;
  - 1.7. rear registration plate lamp;
  - 1.8. non-triangular rear retro-reflector.
2. In addition all two-wheel motorcycles may be fitted with the...
  - 2.1. front fog lamp;
  - 2.2. rear fog lamp;
  - 2.3. hazard warning signal;
  - 2.4. non-triangular side retro-reflectors.
3. Each of the lighting and light-signalling devices referred to in...
4. No lighting and light-signalling device other than those referred to...
5. The lighting and light-signalling devices referred to in sections 1...
6. SPECIFIC FITTING REQUIREMENTS
  - 6.1. Main-beam headlamps
    - 6.1.1. Number: one or two.
    - 6.1.2. Arrangement drawing: no individual specifications.
    - 6.1.3. Location
      - 6.1.3.1. Width:
      - 6.1.3.2. The length: at the front of the vehicle. This requirement...
      - 6.1.3.3. In any case, the distance between the edge of the...
      - 6.1.3.4. In the case of two main-beam headlamps: the distance separating...
    - 6.1.4. Geometric visibility
    - 6.1.5. Alignment: forwards.
    - 6.1.6. May be grouped together with the dipped-beam headlamp and the...
    - 6.1.7. May not be combined with any other lamp.
    - 6.1.8. May be reciprocally incorporated:
      - 6.1.8.1. with the dipped-beam headlamp;
      - 6.1.8.2. with the front position lamp;

- 6.1.8.3. with the front fog lamp.
- 6.1.9. Electrical connections
- 6.1.10. Circuit-closed telltale: mandatory.
- 6.1.11. Other requirements: the maximum intensity of the main-beam headlamps which...
- 6.2. Dipped-beam headlamps
  - 6.2.1. Number: one or two.
  - 6.2.2. Arrangement drawing: no particular specifications.
  - 6.2.3. Position
    - 6.2.3.1. Width:
    - 6.2.3.2. Height: a minimum of 500 mm and a maximum of...
    - 6.2.3.3. Length: at the front of the vehicle. This requirement is...
    - 6.2.3.4. In the case of two dipped-beam headlamps the distance separating...
  - 6.2.4. Geometric visibility
  - 6.2.5. Alignment: forwards.
  - 6.2.6. May be grouped together with the main-headlamp and the other...
  - 6.2.7. May not be combined with any other lamp.
  - 6.2.8. May be reciprocally incorporated with the main-beam headlamp and the...
  - 6.2.9. Electrical connections
  - 6.2.10. Circuit-closed telltale: optional.
  - 6.2.11. Other requirements: none.
- 6.3. Direction indicator lamps
  - 6.3.1. Number: two per side.
  - 6.3.2. Arrangement drawing: two front and two rear indicator lamps.
  - 6.3.3. Position
    - 6.3.3.1. Width:
      - 6.3.3.1.1. the following apply simultaneously to front indicator lamps:
        - 6.3.3.1.1.1. there must be a minimum distance of 240 mm between...
        - 6.3.3.1.1.2. they must be situated outside the vertical longitudinal planes that...
        - 6.3.3.1.1.3. a minimum distance between the illuminating surfaces of the nearest...
      - 6.3.3.1.2. The distance between the inner edges of the illuminating surfaces...
    - 6.3.3.2. Height: minimum 350 mm, maximum 1 200 mm above the...
    - 6.3.3.3. Length: the distance towards the front between the transverse plane...
  - 6.3.4. Geometric visibility
  - 6.3.5. Alignment
  - 6.3.6. May be grouped with one or more lamps.
  - 6.3.7. May not be combined with any other lamp.
  - 6.3.8. May not be reciprocally incorporated with any other lamp.
  - 6.3.9. Electrical connections:
  - 6.3.10. Operational tell-tale: compulsory .
  - 6.3.11. Other requirements
    - 6.3.11.1. Actuation of the light-signalling device control must be followed by...
    - 6.3.11.2. In the case of all vehicles the direction indicator lamps...

- 6.3.11.2 the flashing-light frequency must be  $90 \pm 30$  times per...
- 6.3.11.2 the direction indicator lamps on the same side of the...
- 6.3.11.3 Where a vehicle is fitted with direction indicator lamps which...
- 6.3.11.3 the lights must flash at a frequency of  $90 \pm \dots$
- 6.3.11.3 the direction indicator lamps may flash on the same side...
- 6.3.11.4 Where the direction indicator lamps fitted to a vehicle are...
- 6.3.11.4 the flashing frequency must lie between  $90 + 30$  and...
- 6.3.11.4 direction indicator lamps on the same side of the vehicle...
- 6.3.11.5 In the event of failure, other than a short circuit,...
- 6.4. Stop lamps
  - 6.4.1. Number: one or two.
  - 6.4.2. Arrangement drawing: no individual specifications.
  - 6.4.3. Position
    - 6.4.3.1. Width: if there is only one stop lamp its centre...
    - 6.4.3.2. Height: minimum 250 mm, maximum 1 500 mm above ground...
    - 6.4.3.3. Length: at the rear of the vehicle.
  - 6.4.4. Geometric visibility:
  - 6.4.5. Alignment: towards the rear of the vehicle.
  - 6.4.6. May be grouped with one or more other rear lamps....
  - 6.4.7. May not be combined with any other lamp.
  - 6.4.8. May be reciprocally incorporated with the rear position lamp.
  - 6.4.9. Electrical connections: must light up whenever at least one of...
  - 6.4.10. Circuit-closed telltale: prohibited.
- 6.5. Front position lamps
  - 6.5.1. Number: one or two.
  - 6.5.2. Arrangement drawing: no individual specifications.
  - 6.5.3. Position
    - 6.5.3.1. Width:
    - 6.5.3.2. Height: minimum 350 mm, maximum 1 200 mm above the...
    - 6.5.3.3. Length: at front of vehicle.
  - 6.5.4. Geometric visibility
  - 6.5.5. Alignment: towards the front.
  - 6.5.6. May be grouped with any other front lamp.
  - 6.5.7. May be reciprocally incorporated with any other front lamp.
  - 6.5.8. Electrical connections: no individual specifications.
  - 6.5.9. Circuit-closed telltale: compulsory.
  - 6.5.10. Other requirements: none.
- 6.6. Rear position lamps
  - 6.6.1. Number: one or two.
  - 6.6.2. Arrangement drawing: no individual specifications.
  - 6.6.3. Position
    - 6.6.3.1. Width: the reference centre must be located within the median...
    - 6.6.3.2. Height: minimum 250 mm, maximum 1 500 mm above the...
    - 6.6.3.3. Length: at rear of vehicle.
  - 6.6.4. Geometric visibility
  - 6.6.5. Alignment: towards the rear.
  - 6.6.6. May be grouped with any other rear lamp.

- 6.6.7. May be combined with the rear registration plate lamp.
- 6.6.8. May be reciprocally incorporated with the stop lamp or non-triangular...
- 6.6.9. Electrical connections: no individual specifications.
- 6.6.10. Circuit-closed telltale: optional.
- 6.6.11. Other requirements: none.
- 6.7. Front fog lamps
  - 6.7.1. Number: one or two.
  - 6.7.2. Arrangement drawing: no individual specifications.
  - 6.7.3. Position
    - 6.7.3.1. Width:
    - 6.7.3.2. Height: 250 mm minimum above the ground. No point of...
    - 6.7.3.3. Length: at the front of the vehicle. This requirement is...
  - 6.7.4. Geometric visibility
  - 6.7.5. Alignment: towards the front.
  - 6.7.6. May be grouped with the other front lamps.
  - 6.7.7. May not be combined with any other front lamp.
  - 6.7.8. May be reciprocally incorporated with a main-beam headlamp and a...
  - 6.7.9. Electrical connections
  - 6.7.10. Circuit-closed telltale: optional.
  - 6.7.11. Other requirements: none.
- 6.8. Rear fog lamps
  - 6.8.1. Number: one or two.
  - 6.8.2. Arrangement drawing: no individual specifications.
  - 6.8.3. Position
    - 6.8.3.1. Width: one independent rear fog lamp may be fitted above,...
    - 6.8.3.2. Height: minimum 250 mm, maximum 900 mm above the ground....
    - 6.8.3.3. Length: at the rear of the vehicle.
    - 6.8.3.4. The distance between the illuminating surface of the rear fog...
  - 6.8.4. Geometrical visibility
  - 6.8.5. Position: to the rear.
  - 6.8.6. May be grouped with any other rear lamp.
  - 6.8.7. May not be combined with any other lamp.
  - 6.8.8. May be reciprocally incorporated with a rear position lamp.
  - 6.8.9. Electrical connections
  - 6.8.10. Circuit-closed telltale: compulsory.
  - 6.8.11. Other requirements: none.
- 6.9. Hazard warning signal
  - 6.9.1. Requirements identical to those set out in sections 6.3. to...
  - 6.9.2. Electrical connections
  - 6.9.3. Circuit-closed telltale: compulsory.
  - 6.9.4. Other requirements
- 6.10. Rear registration plate lamp
- 6.11. Non-triangular side retro-reflectors
  - 6.11.1. Number per side: one or two class IA.
  - 6.11.2. Arrangement drawing: no individual specifications.
  - 6.11.3. Position
    - 6.11.3.1. Width: no individual specifications.
    - 6.11.3.2. Height: 300 mm minimum, 900 mm maximum above the ground....
    - 6.11.3.3. Length: must be such that, under normal conditions, the device...

- 6.11.4. Geometric visibility
- 6.11.5. Position: the reference axis of the retro reflectors must be...
- 6.11.6. May be grouped with the other signalling devices.
- 6.12. Non-triangular rear retro-reflectors
  - 6.12.1. Number: one, class IA.
  - 6.12.2. Arrangement drawing: no individual specifications.
  - 6.12.3. Location
    - 6.12.3.1 Width: the reference centre must be situated in the median...
    - 6.12.3.2 Height: minimum 250 mm, maximum 900 mm above the ground...
    - 6.12.3.3 Length: to the rear of the vehicle.
  - 6.12.4. Geometrical visibility
  - 6.12.5. Location: to the rear.
  - 6.12.6. May be grouped with any other lamp.
  - 6.12.7. The illuminating surface of the retro reflector may have parts...

#### Appendix 1

Visibility of red lights towards the front and white lights towards the rear

#### Appendix 2

Arrangement drawing

#### Appendix 3

Information document in respect of the installation of lighting and light-signalling devices on a type of two-wheel motorcycle

#### Appendix 4

### ANNEX V

#### REQUIREMENTS CONCERNING MOTORCYCLES WITH SIDE-CAR

1. All motorcycles with side-car must be fitted with the following...
  - 1.1. main-beam headlamp;
  - 1.2. dipped-beam headlamp;
  - 1.3. direction indicator lamps;
  - 1.4. stop lamp;
  - 1.5. front position lamp;
  - 1.6. rear position lamp;
  - 1.7. rear registration plate lamp;
  - 1.8. non-triangular rear retro-reflector.

2. All motorcycles with side-car may also be fitted with the...
  - 2.1. front fog lamp;
  - 2.2. rear fog lamp;
  - 2.3. hazard warning signal;
  - 2.4. non-triangular side retro-reflectors.
3. Each of the lighting and light-signalling devices referred to in...
4. No lighting and light-signalling device other than those referred to...
5. The lighting and light-signalling devices referred to in sections 1...
6. SPECIFIC FITTING REQUIREMENTS
  - 6.1. Main-beam headlamps
    - 6.1.1. Number: one or two.
    - 6.1.2. Arrangement drawing: no individual specifications.
    - 6.1.3. Location
      - 6.1.3.1. Width:
      - 6.1.3.2. The length: at the front of the vehicle. This requirement...
      - 6.1.3.3. In any case, the distance between the edge of the...
      - 6.1.3.4. The distance separating the illuminating of two main-beam headlamps must...
    - 6.1.4. Geometrical visibility
    - 6.1.5. Alignment: forwards.
    - 6.1.6. May be grouped together with the dipped-beam headlamp and the...
    - 6.1.7. May not be combined with any other lamp.
    - 6.1.8. May be reciprocally incorporated:
      - 6.1.8.1. with the dipped-beam headlamp;
      - 6.1.8.2. with the front position lamp;
      - 6.1.8.3. with the front fog lamp.
    - 6.1.9. Electrical connections
    - 6.1.10. Circuit-closed telltale: compulsory.
    - 6.1.11. Other requirements: the maximum intensity of the main-beam headlamps which...
  - 6.2. Dipped-beam headlamps
    - 6.2.1. Number: one or two.
    - 6.2.2. Arrangement drawing: no individual specifications.
    - 6.2.3. Position
      - 6.2.3.1. Width:
      - 6.2.3.2. Height: a minimum of 500 mm and a maximum of...
      - 6.2.3.3. Length: at the front of the vehicle. This requirement is...
      - 6.2.3.4. In the case of two dipped-beam headlamps the distance separating...
    - 6.2.4. Geometric visibility
    - 6.2.5. Alignment: forwards.
    - 6.2.6. May be grouped together with the main-headlamp and the other...
    - 6.2.7. May not be combined with any other lamp.
    - 6.2.8. May be reciprocally incorporated with the main headlamp and the...
    - 6.2.9. Electrical connections
    - 6.2.10. Circuit-closed telltale: optional.
    - 6.2.11. Other requirements: none.
  - 6.3. Direction indicator lamps
    - 6.3.1. Number: two per side.



- 6.3.2. Arrangement drawing: two front and two rear indicator lamps.
- 6.3.3. Position
  - 6.3.3.1. Width:
  - 6.3.3.2. Length: the distance towards the front between the transverse plane...
- 6.3.4. Geometric visibility
- 6.3.5. Alignment
- 6.3.6. May be grouped with one or more lamps.
- 6.3.7. May not be combined with any other lamp.
- 6.3.8. May not be reciprocally incorporated with any other lamp.
- 6.3.9. Electrical connections
- 6.3.10. Operational telltale: compulsory.
- 6.3.11. Other requirements
  - 6.3.11.1 Actuation of the light-signalling device control must be followed by...
  - 6.3.11.2 In the case of all vehicles the direction indicator lamps...
    - 6.3.11.2.1 the flashing-light frequency must be  $90 \pm 30$  times per...
    - 6.3.11.2.2 the direction indicator lamps on the same side of the...
  - 6.3.11.3 Where a vehicle is fitted with direction indicator lamps which...
    - 6.3.11.3.1 the lights must flash at a frequency of  $90 \pm$ ...
    - 6.3.11.3.2 the direction indicator lamps may flash on the same side...
  - 6.3.11.4 Where the direction indicator lamps fitted to a vehicle are...
    - 6.3.11.4.1 the flashing frequency must lie between  $90 + 30$  and...
    - 6.3.11.4.2 direction indicator lamps on the same side of the vehicle...
  - 6.3.11.5 In the event of failure, other than a short circuit,...
- 6.4. Stop lamps
  - 6.4.1. Number: one or three (only one of which on the...
  - 6.4.2. Arrangement drawing: no individual specifications.
  - 6.4.3. Position
    - 6.4.3.1. Width: the lateral distance between the outermost edge of the...
    - 6.4.3.2. Height: minimum 250 mm, maximum 1 500 mm above ground...
    - 6.4.3.3. Length: at the rear of the vehicle.
  - 6.4.4. Geometric visibility:
  - 6.4.5. Alignment: towards the rear of the vehicle.
  - 6.4.6. May be grouped with one or more other rear lamps....
  - 6.4.7. May not be combined with any other lamp.
  - 6.4.8. May be reciprocally incorporated with the rear position lamp.
  - 6.4.9. Electrical connection: must light up whenever at least one of...
  - 6.4.10. Circuit-closed telltale: prohibited.
- 6.5. Front position lamps
  - 6.5.1. Number: two or three (one only on the side-car).
  - 6.5.2. Arrangement drawing: no individual specifications.
  - 6.5.3. Position
    - 6.5.3.1. Width: the lateral distance between the outermost edge of the...
    - 6.5.3.2. Height: minimum 350 mm, maximum 1 200 mm above the...
    - 6.5.3.3. Length: at front of vehicle.
  - 6.5.4. Geometric visibility
  - 6.5.5. Alignment: towards the front.

- 6.5.6. May be grouped with any other front lamp.
- 6.5.7. May be reciprocally incorporated with any other front lamp.
- 6.5.8. Electrical connections: no individual specifications.
- 6.5.9. Circuit-closed telltale: compulsory.
- 6.5.10. Other requirements: none.
- 6.6. Rear position lamps
  - 6.6.1. Number: two or three (one only on the side-car).
  - 6.6.2. Arrangement drawing: no individual specifications.
  - 6.6.3. Position
    - 6.6.3.1. Width: the lateral distance between the outermost edge of the...
    - 6.6.3.2. Height: minimum 250 mm, maximum 1 500 mm above the...
    - 6.6.3.3. Length: at rear of vehicle.
  - 6.6.4. Geometric visibility
  - 6.6.5. Alignment: towards the rear.
  - 6.6.6. May be grouped with any other rear lamp.
  - 6.6.7. May be combined with the rear registration plate lamp.
  - 6.6.8. May be reciprocally incorporated with the stop lamp or non-triangular...
  - 6.6.9. Electrical connections: no individual specifications.
  - 6.6.10. Circuit-closed telltale: optional.
  - 6.6.11. Other requirements: none.
- 6.7. Front fog lamps
  - 6.7.1. Number: one or two.
  - 6.7.2. Arrangement drawing: no individual specifications.
  - 6.7.3. Position
    - 6.7.3.1. Width:
    - 6.7.3.2. Height: 250 mm minimum above the ground. No point of...
    - 6.7.3.3. Length: at the front of the vehicle, this requirement is...
  - 6.7.4. Geometric visibility
  - 6.7.5. Alignment: towards the front.
  - 6.7.6. May be grouped with the other front lamps.
  - 6.7.7. May not be combined with any other front lamp.
  - 6.7.8. May be reciprocally incorporated with a main-beam headlamp and a...
  - 6.7.9. Electrical connections
  - 6.7.10. Circuit-closed telltale: optional.
  - 6.7.11. Other requirements: none.
- 6.8. Rear fog lamps
  - 6.8.1. Number: one or two.
  - 6.8.2. Arrangement drawing: no individual specifications.
  - 6.8.3. Position
    - 6.8.3.1. Width: when a single fog lamp is fitted its position...
    - 6.8.3.2. Height: minimum 250 mm, maximum 900 mm above the ground....
    - 6.8.3.3. Length: at the rear of the vehicle.
    - 6.8.3.4. The distance between the illuminating surface of the rear fog...
  - 6.8.4. Geometrical visibility
  - 6.8.5. Position: to the rear.
  - 6.8.6. May be grouped with any other rear lamp.
  - 6.8.7. May not be combined with any other lamp.
  - 6.8.8. May be reciprocally incorporated with a rear position lamp.
  - 6.8.9. Electrical connections
  - 6.8.10. Circuit-closed telltale: compulsory.
  - 6.8.11. Other requirements: none.

- 6.9. Hazard warning signal
  - 6.9.1. Requirements identical to those set out in sections 6.3. to...
  - 6.9.2. Electrical connections
  - 6.9.3. Circuit-closed telltale: compulsory.
  - 6.9.4. Other requirements
- 6.10. Rear registration plate lamp
- 6.11. Non-triangular side retro-reflectors
  - 6.11.1. Number per side: one or two class IA.
  - 6.11.2. Arrangement drawing: no individual specifications.
  - 6.11.3. Position
    - 6.11.3.1 Width: no individual specifications.
    - 6.11.3.2 Height: 300 mm minimum, 900 mm maximum above the ground....
    - 6.11.3.3 Length: must be such that, under normal conditions, the device...
  - 6.11.4. Geometric visibility
  - 6.11.5. Position: the reference axis of the retro-reflectors must be perpendicular...
  - 6.11.6. May be grouped with the other signalling devices.
- 6.12. Non-triangular rear retro-reflectors
  - 6.12.1. Number: two, class IA.
  - 6.12.2. Arrangement drawing: no individual specifications.
  - 6.12.3. Location
    - 6.12.3.1 Width:
    - 6.12.3.2 Height: minimum 250 mm, maximum 900 mm above the ground....
    - 6.12.3.3 Length: to the rear of the vehicle.
  - 6.12.4. Geometrical visibility
  - 6.12.5. Location: to the rear.
  - 6.12.6. May be grouped with any other lamp.
  - 6.12.7. The illuminating surface of the retro-reflector may have parts in...

#### Appendix 1

Visibility of red lights towards the front and white lights towards the rear

#### Appendix 2

Arrangement drawing

#### Appendix 3

Information document in respect of the installation of lighting and light-signalling devices on a type of motorcycle with side-car

## Appendix 4

### ANNEX VI

#### REQUIREMENTS CONCERNING TRICYCLES

1. All tricycles must be fitted with the following lighting and...
  - 1.1. main-beam headlamp;
  - 1.2. dipped-beam headlamp;
  - 1.3. direction indicator lamps;
  - 1.4. stop lamp;
  - 1.5. front position lamp;
  - 1.6. rear position lamp;
  - 1.7. rear registration plate lamp;
  - 1.8. non-triangular rear retro-reflector;
  - 1.9. hazard warning signal.
  
2. In addition all tricycles may be fitted with the following...
  - 2.1. front fog lamp;
  - 2.2. rear fog lamp;
  - 2.3. reversing lamp;
  - 2.4. non-triangular side retro-reflectors.
  
3. Each of the lighting and light-signalling devices referred to in...
  
4. No lighting and light-signalling device other than those referred to...
  
5. The lighting and light-signalling devices referred to in sections 1...
  
6. SPECIFIC FITTING REQUIREMENTS
  - 6.1. Main-beam headlamps
    - 6.1.1. Number: one or two.
    - 6.1.2. Arrangement drawing: no individual specifications
    - 6.1.3. Location
      - 6.1.3.1. Width:
      - 6.1.3.2. The length: at the front of the vehicle. This requirement...
      - 6.1.3.3. In any case, the distance between the edge of the...
    - 6.1.4. Geometrical visibility
    - 6.1.5. Alignment: forwards.
    - 6.1.6. May be grouped together with the dipped-beam headlamp and the...
    - 6.1.7. May not be combined with any other lamp.
    - 6.1.8. May be reciprocally incorporated:
      - 6.1.8.1. with the dipped-beam headlamp;
      - 6.1.8.2. with the front position lamp;
      - 6.1.8.3. with the front fog lamp.
    - 6.1.9. Electrical connections
    - 6.1.10. Circuit-closed telltale: compulsory.
    - 6.1.11. Other requirements: the maximum intensity of the main-beam headlamps which...
  - 6.2. Dipped-beam headlamps
    - 6.2.1. Number: one or two.
    - 6.2.2. Arrangement drawing: no individual specifications.

- 6.2.3. Position
    - 6.2.3.1. Width:
    - 6.2.3.2. Height: a minimum of 500 mm and a maximum of...
    - 6.2.3.3. Length: at the front of the vehicle. This requirement is...
  - 6.2.4. Geometric visibility
  - 6.2.5. Alignment: forwards.
  - 6.2.6. May be grouped together with the main-headlamp and the other...
  - 6.2.7. May not be combined with any other lamp.
  - 6.2.8. May be reciprocally incorporated with the main-beam headlamp and the...
  - 6.2.9. Electrical connections
  - 6.2.10. Circuit-closed telltale: optional.
  - 6.2.11. Other requirements: none.
- 6.3. Direction indicator lamps
- 6.3.1. Number: two per side.
  - 6.3.2. Arrangement drawing: two front and two rear indicator lamps.
  - 6.3.3. Position
    - 6.3.3.1. Width:
    - 6.3.3.2. Height: a minimum of 350 mm and a maximum of...
  - 6.3.4. Geometric visibility
  - 6.3.5. Alignment
  - 6.3.6. May be grouped with one or more lamps.
  - 6.3.7. May not be combined with any other lamp.
  - 6.3.8. May not be reciprocally incorporated with any other lamp.
  - 6.3.9. Electrical connections:
  - 6.3.10. Operational telltale: compulsory.
  - 6.3.11. Other requirements
    - 6.3.11.1 Actuation of the light-signalling device control must be followed by...
    - 6.3.11.2 In the case of all vehicles the direction indicator lamps...
      - 6.3.11.2.1 the flashing-light frequency must be  $90 \pm 30$  times per...
      - 6.3.11.2.2 the direction indicator lamps on the same side of the...
    - 6.3.11.3 Where a vehicle is fitted with direction indicator lamps which...
      - 6.3.11.3.1 the lights must flash at a frequency of  $90 \pm \dots$
      - 6.3.11.3.2 the direction indicator lamps may flash on the same side...
    - 6.3.11.4 Where the direction indicator lamps fitted to a vehicle are...
      - 6.3.11.4.1 the flashing frequency must lie between  $90 + 30$  and...
      - 6.3.11.4.2 Direction indicator lamps on the same side of the vehicle...
    - 6.3.11.5 In the event of failure, other than a short circuit,...
- 6.4. Stop lamps
- 6.4.1. Number: one or two.
  - 6.4.2. Arrangement drawing: no individual specifications.
  - 6.4.3. Position
    - 6.4.3.1. Width: if there is only one stop lamp its centre...
    - 6.4.3.2. Height: minimum 250 mm, maximum 1 500 mm above ground...
    - 6.4.3.3. Length: at the rear of the vehicle.
  - 6.4.4. Geometric visibility:
  - 6.4.5. Alignment: towards the rear of the vehicle.

- 6.4.6. May be grouped with one or more other rear lamps....
- 6.4.7. May not be combined with any other lamp.
- 6.4.8. May be reciprocally incorporated with the rear position lamp.
- 6.4.9. Electrical connection: must light up whenever at least one of...
- 6.4.10. Circuit-closed telltale: prohibited.
- 6.5. Front position lamps
  - 6.5.1. Number: one or two.
  - 6.5.2. Arrangement drawing: no individual specifications.
  - 6.5.3. Position
    - 6.5.3.1. Width:
    - 6.5.3.2. Height: minimum 350 mm, maximum 1 200 mm above the...
    - 6.5.3.3. Length: at front of vehicle.
  - 6.5.4. Geometric visibility
  - 6.5.5. Alignment: towards the front.
  - 6.5.6. May be grouped with any other front lamp.
  - 6.5.7. May be reciprocally incorporated with any other front lamp.
  - 6.5.8. Electrical connections: no individual specifications.
  - 6.5.9. Circuit-closed telltale: compulsory.
  - 6.5.10. Other requirements: none.
- 6.6. Rear position lamps
  - 6.6.1. Number: one or two.
  - 6.6.2. Arrangement drawing: no individual specifications.
  - 6.6.3. Position
    - 6.6.3.1. Width: the reference centre must be located within the median...
    - 6.6.3.2. Height: minimum 250 mm, maximum 1 500 mm above the...
    - 6.6.3.3. Length: at rear of vehicle.
  - 6.6.4. Geometric visibility
  - 6.6.5. Alignment: towards the rear.
  - 6.6.6. May be grouped with any other rear lamp.
  - 6.6.7. May be combined with the rear registration plate lamp.
  - 6.6.8. May be reciprocally incorporated with the stop lamp or non-triangular...
  - 6.6.9. Electrical connections: no individual specifications.
  - 6.6.10. Circuit-closed telltale: optional.
  - 6.6.11. Other requirements: none.
- 6.7. Front fog lamps
  - 6.7.1. Number: one or two.
  - 6.7.2. Arrangement drawing: no individual specifications.
  - 6.7.3. Position
    - 6.7.3.1. Width:
    - 6.7.3.2. Height: 250 mm minimum above the ground. No point of...
    - 6.7.3.3. Length: at the front of the vehicle, this requirement is...
  - 6.7.4. Geometric visibility
  - 6.7.5. Alignment: towards the front.
  - 6.7.6. May be grouped with the other front lamps.
  - 6.7.7. May not be combined with any other front lamp.
  - 6.7.8. May be reciprocally incorporated with a main-beam headlamp and a...
  - 6.7.9. Electrical connections
  - 6.7.10. Circuit-closed telltale: optional.
  - 6.7.11. Other requirements: none.
- 6.8. Rear fog lamps
  - 6.8.1. Number: one or two.

- 6.8.2. Arrangement drawing: no individual specifications.
- 6.8.3. Position
  - 6.8.3.1. Width: the reference centre must be situated in the median...
  - 6.8.3.2. Height: minimum 250 mm, maximum 1 000 mm above the...
  - 6.8.3.3. Length: at the rear of the vehicle. If there is...
  - 6.8.3.4. The distance between the illuminating surface of the rear fog...
- 6.8.4. Geometrical visibility
- 6.8.5. Position: to the rear.
- 6.8.6. May be grouped with any other rear lamp.
- 6.8.7. May not be combined with any other lamp.
- 6.8.8. May be reciprocally incorporated with a rear position lamp.
- 6.8.9. Electrical connections
- 6.8.10. Circuit-closed telltale: compulsory.
- 6.8.11. Other requirements: none.
- 6.9. Reversing lamps
  - 6.9.1. Number: one or two.
  - 6.9.2. Arrangement drawing: no individual specifications.
  - 6.9.3. Position
    - 6.9.3.1. Width: no individual specifications.
    - 6.9.3.2. Height: minimum 250 mm, maximum 1 200 mm above the...
    - 6.9.3.3. Length: at the rear of the vehicle.
  - 6.9.4. Geometric visibility
  - 6.9.5. Alignment: towards the rear.
  - 6.9.6. May be grouped with any other rear lamp.
  - 6.9.7. May not be combined with any other lamp.
  - 6.9.8. May not be reciprocally incorporated with another lamp.
  - 6.9.9. Electrical connections
  - 6.9.10. Circuit-closed telltale: optional.
- 6.10. Hazard warning signal
  - 6.10.1. Requirements identical to those set out in sections 6.3 to...
  - 6.10.2. Electrical connections
  - 6.10.3. Circuit-closed telltale: compulsory.
  - 6.10.4. Other requirements
- 6.11. Rear registration plate lamp
- 6.12. Non-triangular rear retro-reflectors
  - 6.12.1. Number: one or two class IA.
  - 6.12.2. Arrangement drawing: no individual specifications.
  - 6.12.3. Position
    - 6.12.3.1. Width: the reference centre must be situated in the median...
    - 6.12.3.2. Height: 250 mm minimum, 900 mm maximum above the ground....
    - 6.12.3.3. Length: at the rear of the vehicle.
  - 6.12.4. Geometric visibility
  - 6.12.5. Alignment: to the rear.
  - 6.12.6. May be grouped with any other lamp.
  - 6.12.7. Other requirements: the illuminating surface of the retro-reflector may have...
- 6.13. Non-triangular side retro-reflectors
  - 6.13.1. Number per side: one or two class IA.
  - 6.13.2. Arrangement drawing: no individual specifications.
  - 6.13.3. Position
    - 6.13.3.1. Width: no individual specifications.

6.13.3.2 Height: 300 mm minimum, 900 mm maximum above the ground....

6.13.3.3 Length: must be such that, under normal conditions, the device...

6.13.4. Geometric visibility

6.13.5. Position: the reference axis of the retro-reflectors must be perpendicular...

6.13.6. May be grouped with the other signalling devices.

#### Appendix 1

Visibility of red lights towards the front and white lights towards the rear

#### Appendix 2

Arrangement drawing

#### Appendix 3

Information document in respect of the installation of lighting and light-signalling devices on a type of tricycle

#### Appendix 4



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**Status:** EU Directives are being published on this site to aid cross referencing from UK legislation. After IP completion day (31 December 2020 11pm) no further amendments will be applied to this version.

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- (1) OJ No L 225, 10.8.1992, p. 72.
- (2) OJ No C 93, 13.4.1992, p. 39.
- (3) OJ No C 305, 23.11.1992, p. 115 and Decision of 27 October 1993 (not yet published in the Official Journal).
- (4) OJ No C 313, 30.11.1992, p. 7.