Introduction

The intention of this Regulation is to establish uniform provisions for Lane Departure Warning Systems (LDWS) fitted to motor vehicles of the categories M2, M3, N2 and N31 primarily used under highway conditions.

These vehicle categories will benefit from the fitment of a LDWS, especially in the field of monotonous driving situations. The benefit of such system installation is to support a distracted or drowsy driver by warning if the vehicle is unintentionally leaving the lane.

While, in general, those vehicle categories will benefit from the fitment of a LDWS, there are subgroups where the benefit is rather uncertain because they are primarily used in other conditions than highway conditions (e.g. buses with standing passengers i.e. Classes I, II and A, off-road vehicles1, construction vehicles, special purpose vehicles, etc.). Regardless from the benefit, there are other subgroups where the installation of LDWS would be technically difficult (e.g. on vehicles equipped with split windshields, asymmetrical cabs, windshield of high thickness, front hood vehicles, vehicles with front mounted equipment, etc.).

The system shall automatically detect unintentional drift of the vehicle out of its travel lane and warn the driver.

The system shall provide a warning, so that an inattentive driver is made aware of a critical situation.

The Regulation cannot include all the traffic conditions and infrastructure features in the type-approval process. Actual conditions and features in the real world should not result in false warnings to the extent that they encourage the driver to switch the system off.

1. Scope

This Regulation applies to the lane departure warning system of vehicles of categories M_2 , N_2 , M_3 and N_3 .²

2. Definitions

For the purposes of this Regulation:

2.1. "Approval of a vehicle type" means the full procedure whereby a Contracting Party to the Agreement certifies that a vehicle type meets the technical requirements of this Regulation;

As defined in the Consolidated Resolution on the Construction of Vehicles (R.E.3.), document ECE/TRANS/WP.29/78/Rev.3, para. 2 -

www.unece.org/trans/main/wp29/wp29wgs/wp29gen/wp29resolutions.html

As defined in section 2 of the Consolidated Resolution on the Construction of Vehicles (R.E.3) (document TRANS/WP.29/78/Rev.2, para.2) - www.unece.org/trans/main/wp29/wp29wgs/wp29gen/wp29resolutions.html

- 2.2. "Vehicle type with regard to its Lane Departure Warning System" means a category of vehicles which do not differ in such essential respects as:
 - (a) The manufacturer's trade name or mark;
 - (b) Vehicle features which significantly influence the performances of the Lane Departure Warning System;
 - (c) The type and design of the Lane Departure Warning System;
- 2.3. "Lane Departure Warning System (LDWS)" means a system to warn the driver of an unintentional drift of the vehicle out of its travel lane;
- 2.4. "Lane" means one of the longitudinal strips into which a roadway is divided (as shown in Annex 3);
- 2.5. "Visible lane marking" means delineators intentionally placed on the borderline of the lane that are directly visible by the driver while driving (e.g. not covered by snow, etc.);
- 2.6. "Rate of departure" means the subject vehicle's approach velocity at a right angle to the visible lane marking at the warning issue point;
- 2.7. "Common space" means an area on which two or more information functions (e.g. symbols) may be displayed, but not simultaneously.

3. Application for approval

- 3.1. The application for approval of a vehicle type with regard to the LDWS shall be submitted by the vehicle manufacturer or by his authorized representative.
- 3.2. It shall be accompanied by the documents mentioned below in triplicate and include the following particular:
- 3.2.1. A description of the vehicle type with regard to the items mentioned in paragraph 5. below, together with dimensional drawings and the documentation as referred to in paragraphs 6.2.3.2. and 6.2.3.3. below. The numbers and/or symbols identifying the vehicle type shall be specified.
- 3.3. A vehicle representative of the vehicle type to be approved shall be submitted to the Technical Service conducting the approval tests.

4. Approval

- 4.1. If the vehicle type submitted for approval pursuant to this Regulation meets the requirements of paragraph 5. below, approval of that vehicle type shall be granted.
- 4.2. An approval number shall be assigned to each vehicle type approved; its first two digits (e.g. "01" for the 01 series of amendments), shall indicate the series of amendments incorporating the most recent major technical amendments made to the Regulation at the time of issue of the approval. The same Contracting Party shall not assign the same number to the same vehicle type equipped with another type of Lane Departure Warning System, or to another vehicle type.
- 4.3. Notice of approval or of refusal or withdrawal of approval pursuant to this Regulation shall be communicated to the Parties to the Agreement applying

this Regulation by means of a form conforming to the model in Annex 1 and photographs and/or plans supplied by the applicant being in a format not exceeding A4 (210 x 297 mm), or folded to that format, and on an appropriate scale.

- 4.4. There shall be affixed, conspicuously and in a readily accessible place specified on the approval form, to every vehicle conforming to a vehicle type approved under this Regulation, an international approval mark conforming to the model described in Annex 2, consisting of:
- 4.4.1 A circle surrounding the letter "E" followed by the distinguishing number of the country which has granted approval;³
- 4.4.2. The number of this Regulation, followed by the letter "R", a dash and the approval number to the right of the circle prescribed in paragraph 4.4.1. above.
- 4.5. If the vehicle conforms to a vehicle type approved under one or more other Regulations annexed to the Agreement, in the country which has granted approval under this Regulation, the symbol prescribed in paragraph 4.4.1. above need not be repeated; in such a case, the Regulation and approval numbers and the additional symbols shall be placed in vertical columns to the right of the symbol prescribed in paragraph 4.4.1. above.
- 4.6. The approval mark shall be clearly legible and be indelible.
- 4.7. The approval mark shall be placed close to or on the vehicle data plate.

³ The distinguishing numbers of the Contracting Parties to the 1958 Agreement are reproduced in Annex 3 to the Consolidated Resolution on the Construction of Vehicles (R.E.3), document ECE/TRANS/WP.29/78/Rev.2/Amend.3 -

www.unece.org/trans/main/wp29/wp29wgs/wp29gen/wp29resolutions.html

5. Specifications

- 5.1. General
- 5.1.1. Any vehicle fitted with a LDWS complying with the definition of paragraph 2.3. above shall meet the requirements contained in paragraphs 5.1 to 5.5. of this Regulation.
- 5.1.2. Effectiveness of LDWS shall not be adversely affected by magnetic or electrical fields. This shall be demonstrated by fulfilling the technical requirements and respecting the transitional provisions of Regulation No. 10 by applying:
 - (a) The 03 series of amendments for vehicles without a coupling system for charging the Rechargeable Energy Storage System (traction batteries);
 - (b) The 04 series of amendments for vehicles with a coupling system for charging the Rechargeable Energy Storage System (traction batteries).
- 5.2. Performance requirements
- 5.2.1. Whenever the system is active, as specified in paragraph 5.2.3. below, the LDWS shall warn the driver if the vehicle crosses over a visible lane marking for the lane in which it is running, on a road with a directional form that varies between straight and a curve having an inner lane marking with a minimum radius of 250 m, when there has been no purposeful demand to do so. Specifically:
- 5.2.1.1. It shall provide the driver with the warning specified in paragraph 5.4.1. below when tested in accordance with the provisions of paragraph 6.5. below (departure warning test) and with lane markings as specified in paragraph 6.2.3. below.
- 5.2.1.2. The warning mentioned in paragraph 5.2.1. above may be suppressed when there is a driver action which indicates an intention to depart from the lane.
- 5.2.2. The system shall also provide the driver with the warning specified in paragraph 5.4.2. below when tested in accordance with the provisions of paragraph 6.6. below (failure detection test). The signal shall be constant.
- 5.2.3. The LDWS shall be active at least at vehicle speeds above 60 km/h, unless manually deactivated as per paragraph 5.3. below.
- 5.3. If a vehicle is equipped with a means to deactivate the LDWS function, the following conditions shall apply as appropriate:
- 5.3.1. The LDWS function shall be automatically reinstated at the initiation of each new ignition "on" (run) cycle.
- 5.3.2. A constant optical warning signal shall inform the driver that the LDWS function has been deactivated. The yellow warning signal specified in paragraph 5.4.2. below may be used for this purpose.
- 5.4. Warning indication
- 5.4.1. The lane departure warning referred to in paragraph 5.2.1. above shall be noticeable by the driver and be provided by:
 - (a) At least two warning means out of optical, acoustic and haptic, or

- (b) One warning means out of haptic and acoustic, with spatial indication about the direction of unintended drift of the vehicle.
- 5.4.1.1 Where an optical signal is used for the lane departure warning, it may use the failure warning signal as specified in paragraph 5.4.2. below in a flashing mode.
- 5.4.2. The failure warning referred to in paragraph 5.2.2. above shall be a yellow optical warning signal.
- 5.4.3. The LDWS optical warning signals shall be activated either when the ignition (start) switch is turned to the "on" (run) position or when the ignition (start) switch is in a position between the "on" (run) and "start" that is designated by the manufacturer as a check position (initial system (power-on)). This requirement does not apply to warning signals shown in a common space.
- 5.4.4. The optical warning signals shall be visible even by daylight; the satisfactory condition of the signals must be easily verifiable by the driver from the driver's seat.
- 5.4.5. When the driver is provided with an optical warning signal to indicate that the LDWS is temporarily not available, for example due to inclement weather conditions, the signal shall be constant. The failure warning signal specified in paragraph 5.4.2. above may be used for this purpose.
- 5.5. Provisions for the periodic technical inspection
- 5.5.1. At a periodic technical inspection it shall be possible to confirm the correct operational status of the LDWS by a visible observation of the failure warning signal status, following a "power-ON" (off-system OK, on-system fault present).

In the case of the failure warning signal being in a common space, the common space must be observed to be functional prior to the failure warning signal status check.

5.5.2. At the time of type-approval, the means to protect against simple unauthorized modification of the operation of the failure warning signal chosen by the manufacturer shall be confidentially outlined.

Alternatively, this protection requirement is fulfilled when a secondary means of checking the correct operational status of the LDWS is available.

6. Test procedure

- 6.1. The manufacturer shall provide a brief documentation package which gives access to the basic design of the system and, if applicable, the means by which it is linked to other vehicle systems. The function of the system shall be explained and the documentation shall describe how the operational status of the system is checked, whether there is an influence on other vehicle systems, and the method(s) used in establishing the situations which will result in a failure warning signal being displayed.
- 6.2. Test conditions
- 6.2.1. The test shall be performed on a flat, dry asphalt or concrete surface.
- 6.2.2. The ambient temperature shall be between 0° C and 45° C.

- 6.2.3. Visible lane markings
- 6.2.3.1. The visible lane markings used in the lane departure warning tests of paragraph 6.5. below shall be those of one of the Contracting Parties as identified in Annex 3 to this Regulation, with the markings being in good condition and of a material conforming to the standard for visible lane markings of that Contracting Party. The visible lane marking layout used for the testing shall be recorded.
- 6.2.3.2. The vehicle manufacturer shall demonstrate, through the use of documentation, compliance with all the other lane markings identified in Annex 3 to this Regulation. Any such documentation shall be appended to the test report.
- 6.2.3.3. In the case the vehicle type may be equipped with different variants of the LDWS with regional specific adjustments; the manufacturer shall demonstrate through documentation that the requirements of this Regulation are fulfilled in all variants.
- 6.2.4. The test shall be performed under visibility conditions that allow safe driving at the required test speed.
- 6.3. Vehicle conditions
- 6.3.1. Test weight

The vehicle may be tested at any condition of load, the distribution of the mass among the axles being that stated by the vehicle manufacturer without exceeding any of the maximum permissible mass for each axle. No alteration shall be made once the test procedure has begun. The vehicle manufacturer shall demonstrate through the use of documentation that the system works at all conditions of load.

- 6.3.2. The vehicle shall be tested at the tyre pressures recommended by the vehicle manufacturer.
- 6.3.3. In the case where the LDWS is equipped with a user-adjustable warning threshold, the test as specified in paragraph 6.5. below shall be performed with the warning threshold set at its maximum lane departure setting. No alteration shall be made once the test procedure has begun.
- 6.4. Optical warning signal verification test

With the vehicle stationary check that the optical warning signal(s) comply with the requirements of paragraph 5.4.3. above.

- 6.5. Lane departure warning test
- 6.5.1 Drive the vehicle at a speed of 65 km/h +/- 3 km/h into the centre of the test lane in a smooth manner so that the attitude of the vehicle is stable.

Maintaining the prescribed speed, gently drift the vehicle, either to the left or the right, at a rate of departure of between 0.1 and 0.8 m/s so that the vehicle crosses the lane marking. Repeat the test at a different rate of departure within the range 0.1 and 0.8 m/s.

Repeat the above tests drifting in the opposite direction.

6.5.2. The LDWS shall provide the lane departure warning indication mentioned in paragraph 5.4.1. above at the latest when the outside of the tyre of the vehicle's front wheel closest to the lane markings crosses a line 0.3 m beyond

the outside edge of the visible lane marking to which the vehicle is being drifted.

- 6.6. Failure detection test
- 6.6.1. Simulate a LDWS failure, for example by disconnecting the power source to any LDWS component or disconnecting any electrical connection between LDWS components. The electrical connections for the failure warning signal of paragraph 5.4.2. above and the LDWS disable control of paragraph 5.3. above shall not be disconnected when simulating a LDWS failure.
- 6.6.2. The failure warning signal mentioned in paragraph 5.4.2.above shall be activated and remain activated while the vehicle is being driven and be reactivated after a subsequent ignition "off" ignition "on" cycle as long as the simulated failure exists.
- 6.7. Deactivation Test
- 6.7.1 If the vehicle is equipped with means to deactivate the LDWS, turn the ignition (start) switch to the "on" (run) position and deactivate the LDWS. The warning signal mentioned in paragraph 5.3.2. above shall be activated. Turn the ignition (start) switch to the "off" position. Again, turn the ignition (start) switch to the "on" (run) position and verify that the previously activated warning signal is not reactivated, thereby indicating that the LDWS has been reinstated as specified in paragraph 5.3.1. above. If the ignition system is activated by means of a "key", the above requirement shall be fulfilled without removing the key.

7. Modification of vehicle type and extension of approval

- 7.1. Every modification of the vehicle type as defined in paragraph 2.2. of this Regulation shall be notified to the Type Approval Authority which approved the vehicle type. The Type Approval Authority may then either:
- 7.1.1. Consider that the modifications made do not have an adverse effect on the conditions of the granting of the approval and grant an extension of approval;
- 7.1.2. Consider that the modifications made affect the conditions of the granting of the approval and require further tests or additional checks before granting an extension of approval.
- 7.2. Confirmation or refusal of approval, specifying the alterations, shall be communicated by the procedure specified in paragraph 4.3. above to the Contracting Parties to the Agreement applying this Regulation.
- 7.3. The Type Approval Authority shall inform the other Contracting Parties of the extension by means of the communication form which appears in Annex 1 to this Regulation. It shall assign a serial number to each extension, to be known as the extension number.

8. Conformity of production

8.1. Procedures concerning conformity of production shall conform to the general provisions defined in Article 2 and Appendix 2 to the Agreement

(E/ECE/324-E/ECE/TRANS/505/Rev.2) and meet the following requirements:

- 8.2. A vehicle approved pursuant to this Regulation shall be so manufactured as to conform to the type approved by meeting the requirements of paragraph 5. above;
- 8.3. The Type Approval Authority which has granted the approval may at any time verify the conformity of control methods applicable to each production unit. The normal frequency of such inspections shall be once every two years.

9. Penalties for non-conformity of production

- 9.1. The approval granted in respect of a vehicle type pursuant to this Regulation may be withdrawn if the requirements laid down in paragraph 8. Above are not complied with.
- 9.2. If a Contracting Party withdraws an approval it had previously granted, it shall forthwith so notify the other Contracting Parties applying this Regulation by sending them a communication form conforming to the model in Annex 1 to this Regulation.

10. Production definitively discontinued

If the holder of the approval completely ceases to manufacture a type of vehicle approved in accordance with this Regulation, he shall so inform the Type Approval Authority which granted the approval, which in turn shall forthwith inform the other Contracting Parties to the Agreement applying this Regulation by means of a communication form conforming to the model in Annex 1 to this Regulation.

11. Names and addresses of the Technical Services responsible for conducting approval tests and of Type Approval Authorities

The Contracting Parties to the Agreement applying this Regulation shall communicate to the United Nations Secretariat the names and addresses of the Technical Services responsible for conducting approval tests and of the Type Approval Authorities which grant approval and to which forms certifying approval or extension or refusal or withdrawal of approval are to be sent.

12. Transitional provisions

- 12.1. As from the official date of entry into force of the 01 series of amendments, no Contracting Party applying this Regulation shall refuse to grant or refuse to accept type approvals under this Regulation as amended by the 01 series of amendments.
- 12.2. As from 1 September 2026, Contracting Parties applying this Regulation shall not be obliged to accept type approvals to the preceding series of amendments, first issued on or after 1 September 2026.

- 12.3. Until 1 September 2028, Contracting Parties applying this Regulation shall accept type approvals to the preceding series of amendments, first issued before 1 September 2026.
- 12.4. As from 1 September 2028, Contracting Parties applying this Regulation shall not be obliged to accept type approvals issued to the preceding series of amendments to this Regulation

Annex 1 - Communication

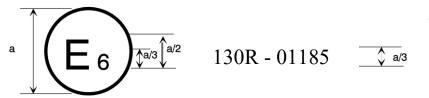
(Max	imum format	: A4 (210 x 297 mm)		
			issued by:	(Name of administration)
	_ 1			
\r	– … <i>J</i>			
¹ Cone	cerning: ²	Approval granted Approval extended Approval refused Approval withdrawn Production definitively	discontinued	
	ype of vehicl gulation No.	_	e Departure Warning S	System (LDWS) pursuant
Appr	oval No.:	E	xtension No.:	
1.	Trademark:			
2.	Type and tra	ade name(s):		
3.	Name and a	ddress of manufacturer:		
4.	If applicable	e, name and address of m	anufacturer's represen	tative:
5.	Brief descri	ption of vehicle:		
6.	Date of sub	mission of vehicle for app	oroval:	
7.	Technical S	ervice performing the app	proval tests:	
8.	Date of repo	ort issued by that Service:		
9.	Number of	report issued by that Serv	ice:	
10.	Approval w	ith regard to the LDWS is	s granted/refused: ²	
11.	Place:			
12.	Date:			
13.	Signature:			
14.			_	ents, bearing the approval
15	Any remark	····		

Distinguishing number of the country which has granted/extended/refused/withdrawn an approval (see approval provisions in the Regulation).

² Strike out what does not apply.

Annex 2 - Arrangements of approval marks

(see paragraphs 4.4. to 4.4.2. of this Regulation)



a = 8 mm min

The above approval mark affixed to a vehicle shows that the vehicle type concerned has been approved in Belgium (E 6) with regard to the LDWS pursuant to Regulation No. 130. The first two digits of the approval number indicate that the approval was granted in accordance with the requirements of Regulation No. 130 as amended by the 01 series of amendments.

Annex 3 - Visible lane marking identification

- 1. For the purpose of the approval test referred to in paragraphs 6.2.3. and 6.5. of this Regulation, the test lane width shall be greater than 3.5 m.
- 2. The visible lane markings identified in Table 1 below are assumed to be white, unless otherwise indicated in this annex.
- 3. Table of identified visible lane markings to be used for approval test in accordance with paragraphs 6.2.3. and 6.5. of this Regulation.

Table 1

Table 1				
Pattern		Width		
Left edge Centre Right edge lane marking line lane marking	Country	Left edge lane marking	Centre line	Right edge lane marking
Lan e	Definition of lane width for the purpose of this Regulation			
3 m → □ 9 m → □ Undivided road with one lane each way	AUSTRALIA Two-lane, two- way road	15 or 20 cm	10 cm	15 or 20 cm
9 m — Gentral dividing line on an undivided	AUSTRALIA Multi-lane undivided road	15 or 20 cm	10 cm	15 or 20 cm
road with more than one lane each way				

	Pattern			Width		
Left edge lane marking	Left edge Centre Right edge lane marking line lane marking		Country	Left edge lane marking	Centre line	Right edge lane marking
Lan e · · ·	I	.an e	Definition of lane width for the purpose of this Regulation			
3 m→ 9 m→	-		AUSTRALIA Two-lane, two- way road with lane changing allowed from one direction only	15 or 20 cm	10 cm 10 cm	15 or 20 cm
			AUSTRALIA Two-lane, two- way road with lane changing not allowed	15 or 20 cm	10 cm 10 cm	15 or 20 cm
			AUSTRALIA Single barrier line	15 or 20 cm	10 cm	15 or 20 cm

Pattern			Width		
Left edge Centre lane marking line	Left edge Centre Right edge lane marking line lane marking		Left edge lane marking	Centre line	Right edge lane marking
Lan e e ·		Definition of lane width for the purpose of this Regulation			
2.5	→⊔			20 cm	30 cm
Centrelines yellow, right edge line edge line	es white left	CANADA Traffic Flowing in Opposite Direction	20 cm	15-20 cm	20 cm
Centrelines yellow, right edge line edge line yellow	es white left	CANADA Traffic flowing in same direction	20 cm	15-20 cm	20 cm

Pattern			Width		
Left edge Centre lane marking line	Left edge Centre Right edge lane marking line lane marking			Centre line	Right edge lane marking
Lan	Lan	Definition of lane width for the purpose of this Regulation			
Centrelines yellow, right edge	lines white left	CANADA Traffic flowing in opposite directions with lane changing prohibited	20 cm	10-15 cm 10-15 cm 10-15 cm	20 cm
 	3 m 6 m	CANADA Traffic flowing in opposite directions with lane changing allowed only from one lane	20 cm	10-15 cm 10-15 cm 10-15 cm	20 cm
3m Centrelines v		CANADA Continuity lines in merging and diverging areas		10 – 15 c	em

	Pattern			Width		
Left edge lane marking	Centre line	Right edge lane marking	Country	Left edge lane marking	Centre line	Right edge lane marking
Lan e ···		Lan e	Definition of lane width for the purpose of this Regulation			
White Lines	• • • • • • • • • • • • • • • • • • •				10-15	cm
5 m_ 10 _	→		DENMARK	30 cm	15 cm	30 cm
3 m_ 9 m_	—		FINLAND	20 cm	10 cm	20 cm

	Pattern			Width		
Left edge lane marking	Centre line	Right edge lane marking	Country	Left edge lane marking	Centre line	Right edge lane marking
Lan	I	Lan e	Definition of lane width for the purpose of this Regulation			
3 m_ 10 _	3	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	FRANCE Motorway ¹	22.5 cm	15 cm	22.5 cm
3 m_ 10 _	—	3 m	FRANCE Highways (4 lanes or 2x2 lanes)	22.5 cm and 37.5	15 cm	22.5 cm
3 m		3 m 3.5	FRANCE (other roads)	10 or 12 cm		15 or 18 cm

	Pattern			Width		
Left edge lane marking	Centre line	Right edge lane marking	Country	Left edge lane marking	Centre line	Right edge lane marking
	an e	Lan e	Definition of lane width for the purpose of this Regulation			
	m→		GERMANY Secondary	12 cm	12 cm	12 or 25 cm
6 1	→ □		GERMANY Motorway	15 cm	15 cm	30 cm
3:			GREECE	12 cm	12 cm	12 cm

	Pattern			Width		
Left edge lane marking	Centre line	Right edge lane marking	Country	Left edge lane marking	Centre line	Right edge lane marking
Lar e ···		Lan e	Definition of lane width for the purpose of this Regulation			
3 m_4.5	→ □		ITALY Secondary and Local	12 or 15 cm	10 or 12 cm	12 or 15 cm
4.5 <u>-</u> 7.5	→□ →		ITALY Motorway	25 cm	15 cm	25 cm
3 m-	→□ → □		ITALY Main	25 cm	15 cm	25 cm

	ı	Pattern				Width		
Left lane m	edge narking	Centre Right edge line lane marking		Country	Left edge lane marking	Centre line	Right edge lane marking	
	Lan		Lan e		Definition of lane width for the purpose of this Regulation			
	4 m	—			IRELAND	15 cm	10 cm	15 cm
	4 <u>m</u>	→ ∐			JAPAN	10 cm	10 cm	10 cm
	3 <u>m</u> 9 <u>m</u>	•			THE NETHERLANDS	15 cm	10 cm	15 cm

	ı	Pattern				Width		
Left lane m	Left edge lane marking		Centre Right edge line lane marking		Country	Left edge lane marking	Centre line	Right edge lane marking
	Lan e ···	•	Lan e		Definition of lane width for the purpose of this Regulation			
	3 <u>m</u> 9 <u>m</u>	- L			NORWAY	20 cm	15 cm	20 cm
	4 <u>m</u> 10_	→ □			PORTUGAL	20 cm	15 cm	20 cm
	a* b*	→			RUSSIAN FEDERATION More than one line in each direction (Basic variant)	10-20 cm	10-15 cm	10-20 cm

	Pattern			Width		
Left edge lane marking	Left edge Centre Right edge lane marking line lane marking		Country	Left edge lane marking	Centre line	Right edge lane marking
Lan e ···	I	Lan e	Definition of lane width for the purpose of this Regulation			
c*	→		RUSSIAN FEDERATION More than one line in each direction (Variant 1 with a lane for reversing traffic)	10-20 cm	10-20 cm	10-20 cm
a* − b*− d*	- <u>-</u> -		RUSSIAN FEDERATION More than one line in each direction (Variant 2 with a lane for reversing traffic)	10-20 cm	10-15 cm	10-20 cm
	e* f*	Ĺ	RUSSIAN FEDERATION One line in each direction (Variant 1)	10-15 cm		10 cm

	Pattern		Country	Width		
Left edge lane marking	Centre line	Right edge lane marking		Left edge lane marking	Centre line	Right edge lane marking
Lan e	I	Lan e	Definition of lane width for the purpose of this Regulation			
a b	* f	* — []	RUSSIAN FEDERATION One line in each direction (Variant 2)	10-15 cm		10 cm
5 m_ 12 _	—	20 4 m	SPAIN	20 cm	10 cm	20 cm
3 <u>n</u> 9 <u>n</u>	 L		SWEDEN	20 cm	10 cm	20 cm

Pattern						Width		
Lej lane	Left edge lane marking		Centre Right edge line lane marking		Country	Left edge lane marking	Centre line	Right edge lane marking
	Lan e ···	1	Lan e		Definition of lane width for the purpose of this Regulation			
	6 <u>m</u> 12_				SWITZERLAND	20 cm	15 cm	20 cm
	2 <u>m</u> 7 <u>m</u>	→ □			UNITED KINGDOM Motorway ¹	20 cm	15 cm	20 cm
	2 <u>m</u> 7 <u>m</u>				UNITED KINGDOM Dual Carriageway	10 or 15 or 20 cm	15 cm	10 or 15 or 20 cm

	Pattern					Width		
Left lane m	Left edge lane marking		Right edge lane marking		Country	Left edge lane marking	Centre line	Right edge lane marking
	↓ Lan e	I	zan e		Definition of lane width for the purpose of this Regulation			
	3 <u>m</u>	→ ∐			UNITED KINGDOM Single Carriageway (speed limit >40 mph)	10 or 15 or 20 cm	10 or 15 cm	10 or 15 or 20 cm

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For the traffic speed limit up to 60 km/h:
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For the traffic speed limit above 60 km/h:

- a = 3...4 m; b = 9...12 m; a:b = 1:3;
- c = 6...9 m; d = 2...3 m; c:d = 3:1;
- e = 2 m; f = 4 m; e:f = 1:2

¹ Excepted certain zones (e.g.: slip road, lane for slow vehicles ...)

^{*} Note:

a = 1...3 m; b = 3...9 m; a:b = 1:3;

c = 3...6 m; d = 1...2 m; c:d = 3:1;

e = 1 m; f = 2 m; e:f = 1:2