

# ISO 17387:2026-02 (E)

## Intelligent transport systems - Lane change decision aid systems (LCDAS) - Performance requirements and test procedures

---

### Contents

Page

Foreword	v	
Introduction	vi	
<b>1</b>	<b>Scope</b> .....	<b>1</b>
<b>2</b>	<b>Normative references</b> .....	<b>1</b>
<b>3</b>	<b>Terms and definitions</b> .....	<b>1</b>
<b>4</b>	<b>Classification</b> .....	<b>4</b>
4.1	Coverage zone classification.....	4
4.1.1	General.....	4
4.1.2	Type I systems.....	4
4.1.3	Type II systems.....	5
4.1.4	Type III systems.....	5
4.2	Target vehicle closing speed classification.....	5
4.3	Optional target vehicle closing speed classification for road curvature.....	6
4.3.1	Overview.....	6
4.3.2	Type A systems.....	7
4.3.3	Type B systems.....	7
4.3.4	Type C systems.....	8
<b>5</b>	<b>Functional requirements</b> .....	<b>9</b>
5.1	LCDAS state diagram.....	9
5.1.1	General.....	9
5.1.2	LCDAS inactive state.....	9
5.1.3	Activation criteria.....	9
5.1.4	LCDAS active state.....	10
5.2	System performance.....	11
5.2.1	General.....	11
5.2.2	Minimum detectable target vehicle.....	12
5.2.3	Requirements for the blind spot warning function.....	13
5.2.4	Requirements for the closing vehicle warning function.....	14
5.2.5	Requirements for the lane change warning function.....	16
5.2.6	System response time.....	17
5.3	User interface.....	17
5.3.1	LCDAS status indication.....	17
5.3.2	LCDAS warning indication.....	17
5.3.3	LCDAS failure indication.....	17
5.4	Operation with trailers.....	18
5.5	Self-test requirements.....	18
<b>6</b>	<b>Test requirements</b> .....	<b>18</b>
6.1	Test target vehicle.....	18
6.2	Environmental conditions.....	18
6.3	Blind spot warning test requirements.....	18
6.3.1	General.....	18
6.3.2	Blind spot warning test measurement system.....	18
6.3.3	Blind spot warning test procedures.....	19
6.4	Closing vehicle warning test requirements.....	25
6.4.1	General.....	25
6.4.2	Closing vehicle warning test measurement system.....	25
6.4.3	Closing vehicle warning test procedures.....	26

- 6.5 Lane change warning test requirements .....31
  - 6.5.1 General .....31
  - 6.5.2 Lane change warning test measurement system.....31
  - 6.5.3 Lane change warning test procedures .....32
- Annex A (informative) Blind spot warning example cases..... 37**
- Annex B (informative) Closing vehicle warning test speeds for systems with optional curvature types..... 45**
- Bibliography.....46**