ISO 4273:2024-01 (E)

Intelligent transport systems - Automated braking during low-speed manoeuvring (ABLS) - Requirements and test procedures

Contents

Page

Foreword ... **iv**

Introduction ... **v**

1 Scope ... **1**

2 Normative references ... **1**

3 Terms and definitions ... **1**

4 Basic system functionality ... **3**
4.1 Operating conditions ... 3
4.2 Classification of ABLS ... 4
4.2.1 ABLS types ... 4
4.2.2 Performance classification ... 4
4.2.3 ABLS classification overview ... 5
4.3 Principle of operation ... 5
4.3.1 General ... 5
4.3.2 Object detection ... 6
4.3.3 Situation evaluation ... 6
4.3.4 Braking activation ... 6
4.4 Information to the driver ... 6

5 Function and performance requirements for ABLS ... **6**
5.1 General ... 6
5.2 Situations addressed ... 6
5.3 Perception requirements ... 7
5.4 Vehicle motion control requirements ... 7
5.5 Function flow ... 7

6 Performance test requirements ... **8**
6.1 General ... 8
6.2 Environmental conditions ... 8
6.3 Boundary of parking space ... 9
6.4 Test object ... 9
6.5 General test criteria ... 9
6.6 Test procedure and criteria ... 9
6.6.1 Overview ... 9
6.6.2 Performance test for type A ... 9
6.6.3 Performance test for type B ... 15
6.6.4 Performance test for type C ... 16

Annex A (informative) **Recommended preparation procedure for curve driving** ... **22**

Bibliography ... **23**