ISO 23792-2:2026-03 (E)

Intelligent transport systems - Motorway chauffeur systems (MCS) - Part 2: Requirements and test procedures for discretionary lane change

Contents

Page

Foreword ... **iv**

Introduction ... **v**

1 Scope ... **1**

2 Normative references ... **1**

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

4 Symbols and abbreviated terms ... **2**

5 Motorway chauffer systems (MCS) with discretionary lane change (DLC) ... **5**
5.1 DLC functionality ... 5
5.2 Lane change procedure ... 5

6 Requirements ... **6**
6.1 General ... 6
6.2 State transitions ... 6
6.2.1 The states of DLC ... 7
6.2.2 The states of MCS ... 7
6.2.3 Transitions between the states ... 8
6.3 Detection function ... 9
6.3.1 Detection of a sufficient gap and target lane availability ... 9
6.4 Driver interface ... 13
6.4.1 Internal display elements ... 13
6.4.2 External notifications ... 13
6.4.3 Fallback ready user (FRU) input ... 13
6.4.4 DLC manoeuvre ... 14
6.4.5 Failure reactions ... 14

7 Minimum performance ... **14**
7.1 Duration of the lane change manoeuvre ... 14
7.2 Operational limit ... 15

8 Performance evaluation test methods ... **15**
8.1 Environment conditions ... 15
8.2 Test course conditions ... 15
8.3 Test vehicle conditions ... 15
8.4 Test system installation and configuration ... 16
8.5 Test procedures ... 16
8.5.1 Normal operation ... 16
8.5.2 Response to MCS cancellation condition during DLC ... 17
8.5.3 DLC conditions not met before starting the lane change procedure (Phase 1) ... 17
8.5.4 DLC conditions not met after starting the lane change procedure (start of Phase 2) ... 18
8.5.5 Steering input during DLC ... 18

Annex A (informative) **Permitted velocity for conducting a lane change** ... **19**

Bibiography ... **21**