

# ISO 22078:2020-02 (E)

## Intelligent transport systems - Bicyclist detection and collision mitigation systems (BDCMS) - Performance requirements and test procedures

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	2
4	Symbols .....	3
5	Requirements .....	3
5.1	Minimum enabling capabilities .....	3
5.2	Operating model -- State transition diagram .....	4
5.2.1	General .....	4
5.2.2	State functional descriptions .....	4
5.3	System types .....	5
5.4	System classes .....	5
5.5	Performance requirements .....	5
5.5.1	General .....	5
5.5.2	Hazardous situation .....	5
5.5.3	Operating speed .....	6
5.5.4	Horizontal curve radius capability .....	7
5.5.5	Countermeasure requirements .....	7
5.5.6	Driver controls and human interface .....	8
6	Test procedures .....	9
6.1	General .....	9
6.2	Bicyclist test target specification .....	9
6.2.1	Test target physical characteristics .....	9
6.2.2	Detectability specifications .....	9
6.3	Environmental conditions .....	9
6.3.1	General .....	9
6.3.2	Driving surface .....	9
6.3.3	Ambient air temperature .....	9
6.3.4	Horizontal visibility .....	9
6.3.5	Ambient illumination .....	10
6.4	Test procedure for longitudinal scenario (limited dynamic-test) .....	12
6.5	Test procedure for crossing scenario (limited dynamic-test) .....	13
Annex A (informative) Information relative to BDCMS .....		15
Bibliography .....		18