

ISO 22078:2020-02 (E)

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

Contents		Page
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