

ISO 15623:2002-10 (E)

Transport information and control systems - Forward vehicle collision warning systems - Performance requirements and test procedures

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative reference	1
3	Terms and definitions	1
4	Symbols	2
5	Specifications and requirements	3
5.1	Warnings	3
5.2	System classification	4
5.3	Obstacle vehicle detection area and performance	4
5.4	User safety requirements	6
5.5	Human interface requirements	6
5.6	Awareness of system limitations	7
6	Evaluation test method for measuring detection performance	8
6.1	Test target specification	8
6.2	Environmental conditions	8
6.3	Test method for detection zone	8
6.4	Test method for warning distance accuracy	10
6.5	Test method for target discrimination ability	10
Annex A (normative)	Basic consideration of collision warning	14
A.1	Basic equation	14
A.2	Scenarios where warning is issued	14
A.3	Evaluation results of T and a	15
A.4	Calculation examples of the warning distance	16
A.5	Design parameter	18
Annex B (normative)	Obstacle detection along curves	19
Annex C (normative)	Laser radar -- Coefficient of test target	21
C.1	Solid angle,	21
C.2	Radiated intensity, I	21
C.3	Intensity of irradiation, E	22
C.4	Coefficient of Test Target, CTT	22
Annex D (normative)	Radio wave radar test target geometry	24
Bibliography		25