

ISO 19206-2:2018 (E)

Road vehicles — Test devices for target vehicles, vulnerable road users and other objects, for assessment of active safety functions — Part 2: Requirements for pedestrian targets

Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Symbols and abbreviated terms
5	Pedestrian target specifications
5.1	Pedestrian size
5.2	Dimensions of the targets
5.3	Safety considerations
5.4	Repairability
5.5	Environmental conditions
5.6	Postures and articulation
5.6.1	General
5.6.2	Static posture
5.6.3	Articulation posture
6	Pedestrian target response to sensing technologies
6.1	General
6.2	Optical requirements
6.2.1	General
6.2.2	Reference measurements
6.2.3	Colours and clothing
6.3	Radar requirements
6.3.1	General
6.3.2	Reference measurements
6.3.3	Radar cross section measurement of PT
6.3.4	Micro-Doppler effect for articulated PT
6.4	Thermal requirements for Far IR vision systems
6.4.1	General
6.4.2	Reference measurements
6.4.3	Thermal characteristics
6.5	Calibration and verification
7	Functional requirements for PT including target carrier system
7.1	General requirements
7.2	Longitudinal positioning
7.2.1	Speed range for operation
7.2.2	Accelerations
7.3	Lateral positioning
7.3.1	General
7.3.2	Yaw angle
7.3.3	Lateral position
7.4	Vertical positioning
7.4.1	General
7.4.2	Pitch angle

7.4.3 Vertical motions

Annex A (normative) Adult and child pedestrian target dimensions and postures

Annex B (normative) Sensor-specific recognition properties

- B.1 General**
- B.2 Visual and near infrared (NIR) properties**
 - B.2.1 Visual properties**
 - B.2.2 Near infrared properties**
- B.3 Radar properties**

Annex C (normative) Pedestrian target measurements and measurement equipment

- C.1 Measurement of position, speed, and acceleration of the pedestrian target**
- C.2 Measurement of IR reflectivity**
 - C.2.1 Equipment and calibration**
 - C.2.2 Measurement setup**
- C.3 Measurement of radar reflectivity**
 - C.3.1 General**
 - C.3.2 Measurement setup**
 - C.3.2.1 Radar sensor positioning**
 - C.3.2.2 Vehicle or moving fixture**
 - C.3.2.3 Pedestrian Target**
 - C.3.2.4 Test environment**
 - C.3.3 Measurement scenario**

Annex D (normative) Pedestrian target articulation properties

- D.1 Articulation properties**
- D.2 Repeatability and reproducibility requirements**

Annex E (informative) Field verification of pedestrian target properties

- E.1 General**
- E.2 Field verification procedure using collision warning feature**
- E.3 Field verification procedure at lowest activation speed**

Annex F (informative) Interface between target carrier and pedestrian target body