

# ISO 26684:2015-05 (E)

## Intelligent transport systems (ITS) - Cooperative intersection signal information and violation warning systems (CIWS) - Performance requirements and test procedures

Contents		Page
Foreword .....		iv
Introduction .....		v
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	1
4	Symbols .....	2
5	Classification .....	3
5.1	System configuration .....	3
5.2	System configuration .....	3
6	Functional requirements .....	4
6.1	CIWS state diagram .....	4
6.1.1	CIWS states .....	5
6.2	Transition criteria .....	5
6.2.1	Criterion (1): RSE activation .....	5
6.2.2	Criterion (2): RSE deactivation .....	6
6.2.3	Criterion (3): OBE activation .....	6
6.2.4	Criterion (4): OBE deactivation .....	6
6.2.5	Class II criterion (5): Warning activation .....	6
6.2.6	Class II criterion (6): Warning deactivation .....	6
6.3	Functional requirements of OBE .....	6
6.3.1	Acquisition of travel direction .....	6
6.3.2	Acquisition of vehicle position .....	6
6.3.3	Acquisition of vehicle speed .....	6
6.3.4	Identification of traffic signal information .....	6
6.3.5	Judgement of warning necessity and warning contents (Class II) .....	6
6.3.6	Timing of warning output .....	7
6.3.7	Timing of warning termination .....	7
6.3.8	HMI display contents .....	7
6.4	Functional requirements of RSE .....	7
6.4.1	Data sets .....	7
6.4.2	Communication range .....	7
6.4.3	Communication delay .....	7
6.5	CIWS system performance .....	7
6.5.1	System capabilities .....	7
6.5.2	Provision of information .....	8
6.5.3	Warning threshold for signal violation .....	8
7	Test requirements .....	9
7.1	Test vehicle .....	9
7.2	Test site .....	9
7.2.1	Environmental conditions .....	9
7.2.2	Geometric conditions .....	10
7.2.3	RSE location for the systems providing communication only at XAL .....	10
7.3	Test procedure .....	10

<b>7.3.1</b>	<b>Test method .....</b>	<b>10</b>
	<b>Bibliography .....</b>	<b>12</b>