

ISO 20901:2020-04 (E)

Intelligent transport systems - Emergency electronic brake light systems (EEBL) - 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 and abbreviated terms	3
5	Specifications and requirements	3
5.1	Basic functions	3
5.2	Necessary functions	4
5.3	Basic operation principle	4
5.3.1	State functional descriptions	5
5.3.2	Operational limits	6
5.4	Alert functionality	6
5.4.1	General	6
5.4.2	Generating the message including emergency braking flag for broadcasting	6
5.4.3	Judging to issue the alert	6
5.5	Alerting element requirements	7
5.5.1	EEBL-R output	7
5.5.2	Alert modality	7
5.5.3	Optional functions of EEBL-R	7
5.6	Performance requirement of EEBL	8
5.6.1	Minimum communication range	8
5.6.2	System delay requirement between FV and SV	8
5.7	Driver interface requirements	8
5.7.1	Alert output specification	8
5.7.2	Fault indication	8
6	Performance evaluation test methods	8
6.1	Environmental conditions for test	8
6.2	Test course conditions	9
6.3	Test system installation and configuration	9
6.4	Parameters recoverable from data record	9
6.5	Test cases	9
6.6	Test procedure	10
6.6.1	Test case 1 — FV transmission test and delay measurement	10
6.6.2	Test case 2 — False positive test	12
6.6.3	Test case 3 — True positive test	13
6.6.4	Test case 4 — Test when there is interfering vehicle (IV)	14
6.6.5	Test case 5 — Basic communication function test	16
	Bibliography	18