

# ISO 18682:2016-10 (E)

## Intelligent transport systems - External hazard detection and notification systems - Basic requirements

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>1</b>
<b>4</b>	<b>External hazard detection and notification systems .....</b>	<b>2</b>
4.1	General .....	2
4.2	Categories of hazard notification .....	2
4.3	Types of external hazard detection and notification system .....	2
4.4	Functional configuration .....	3
4.4.1	Basis of functional configuration .....	3
4.4.2	Detection functional block .....	4
4.4.3	Assessment functional block .....	4
4.4.4	Human machine interface (HMI) functional block .....	4
4.4.5	Communication functional block .....	5
4.5	Time factors of hazard notification .....	5
4.5.1	General .....	5
4.5.2	Detection functional block time factor .....	5
4.5.3	Assessment functional block time factor .....	5
4.5.4	HMI functional block time factor .....	6
4.5.5	Communication functional block time factor .....	6
4.5.6	Time factor after hazard notification .....	6
<b>5</b>	<b>Requirements for external hazard detection and notification systems .....</b>	<b>7</b>
5.1	Principle .....	7
5.2	Particulars .....	7
5.2.1	General .....	7
5.2.2	Detection information .....	7
5.2.3	Assessment information .....	8
5.2.4	Notification information .....	8
5.2.5	Timing of hazard notification .....	9
5.2.6	Distance of hazard notification .....	11
<b>6</b>	<b>Non-functional requirements .....</b>	<b>14</b>
6.1	General .....	14
6.2	Consistency .....	14
6.3	Priority .....	14
6.4	Security .....	15
6.5	Quality .....	15
6.6	Integration .....	15
<b>Annex A (informative) Consideration of timing and distance of hazard notification (case study) .....</b>		<b>16</b>
<b>Bibliography .....</b>		<b>19</b>