

# ISO 13856-3:2006-10 (E)

## Safety of machinery - Pressure-sensitive protective devices - Part 3 : General principles for the design and testing of pressure-sensitive bumpers, plates, wires and similar devices

---

<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>3</b>
<b>4</b>	<b>Requirements .....</b>	<b>7</b>
4.1	General .....	7
4.2	Basic requirements .....	8
4.3	Specific requirements for pressure-sensitive bumpers .....	16
4.4	Additional requirements for pressure-sensitive plates .....	17
4.5	Specific requirements for pressure-sensitive wires (trip wires) .....	17
<b>5</b>	<b>Marking .....</b>	<b>18</b>
5.1	General .....	18
5.2	Labels .....	18
5.3	Reference numbers .....	18
<b>6</b>	<b>Information for selection and use .....</b>	<b>19</b>
6.1	General .....	19
6.2	Essential data for selection of suitable device .....	19
6.3	Information for use .....	20
<b>7</b>	<b>Verification .....</b>	<b>22</b>
7.1	Verification of requirements applicable to all pressure-sensitive protective devices 7.2 Verification of requirements for pressure-sensitive bumpers only .....	31
7.3	Verification of requirements for pressure-sensitive plates only .....	32
7.4	Verification of requirements for pressure-sensitive wires .....	33
7.5	Other tests .....	33
<b>Annex A (normative)</b>	<b>Timing diagrams .....</b>	<b>34</b>
<b>Annex B (informative)</b>	<b>Explanatory notes concerning device characteristics .....</b>	<b>38</b>
<b>Annex C (informative)</b>	<b>Design notes .....</b>	<b>40</b>
<b>Annex D (informative)</b>	<b>General application notes .....</b>	<b>50</b>
<b>Annex E (informative)</b>	<b>Commissioning and inspection .....</b>	<b>54</b>
<b>Bibliography .....</b>		<b>56</b>