

# DIN EN ISO 25197:2013-04 (E)

## Small craft - Electrical/electronic control systems for steering, shift and throttle (ISO 25197:2012)

---

<b>Contents</b>		<b>Page</b>
<b>Foreword</b> .....		<b>3</b>
<b>1</b> <b>Scope</b> .....		<b>4</b>
<b>2</b> <b>Normative references</b> .....		<b>4</b>
<b>3</b> <b>Terms and definitions</b> .....		<b>5</b>
<b>4</b> <b>General requirements</b> .....		<b>7</b>
<b>5</b> <b>Control head</b> .....		<b>8</b>
<b>6</b> <b>Command station transfer</b> .....		<b>9</b>
<b>7</b> <b>Portable helm station controls</b> .....		<b>9</b>
<b>8</b> <b>Dynamic-positioning system (DPS)</b> .....		<b>10</b>
<b>9</b> <b>Failure modes and responses</b> .....		<b>11</b>
<b>9.1</b> <b>Loss of operation</b> .....		<b>11</b>
<b>9.2</b> <b>Loss of computer command logic</b> .....		<b>11</b>
<b>10</b> <b>Test requirements</b> .....		<b>11</b>
<b>10.1</b> <b>General test requirements</b> .....		<b>11</b>
<b>10.2</b> <b>Steering</b> .....		<b>11</b>
<b>10.3</b> <b>Joystick</b> .....		<b>12</b>
<b>10.4</b> <b>Control lever, single or combined, shift and throttle</b> .....		<b>13</b>
<b>10.5</b> <b>Environmental-test requirements</b> .....		<b>14</b>
<b>10.6</b> <b>Vibration tests and requirements</b> .....		<b>16</b>
<b>10.7</b> <b>Shock testing</b> .....		<b>17</b>
<b>10.8</b> <b>Free fall</b> .....		<b>17</b>
<b>10.9</b> <b>Resistance to UV</b> .....		<b>17</b>
<b>10.10</b> <b>Electromagnetic compatibility (EMC)</b> .....		<b>18</b>
<b>10.11</b> <b>Compass safe distance</b> .....		<b>20</b>
<b>10.12</b> <b>Insulation resistance</b> .....		<b>20</b>
<b>11</b> <b>Labelling</b> .....		<b>20</b>
<b>12</b> <b>Instructions to be included with the owner's manual</b> .....		<b>21</b>
<b>Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 94/25/EC as amended by Directive 2003/44/EC</b> .....		<b>22</b>