

# DIN EN 54-13:2020-02 (En glisch)

## Fire detection and fire alarm systems - Part 13: Compatibility and connectivity assessment of system components (includes Amendment A1:2019)

---

<b>Contents</b>		<b>Page</b>
European foreword .....		4
Introduction .....		7
<b>1</b>	<b>Scope .....</b>	<b>8</b>
<b>2</b>	<b>Normative references .....</b>	<b>8</b>
<b>3</b>	<b>Terms, definitions and abbreviations .....</b>	<b>9</b>
<b>3.1</b>	<b>Terms and definitions .....</b>	<b>9</b>
<b>3.2</b>	<b>Abbreviations .....</b>	<b>10</b>
<b>4</b>	<b>Requirements .....</b>	<b>10</b>
<b>4.1</b>	<b>Compliance .....</b>	<b>10</b>
<b>4.2</b>	<b>Basic requirements .....</b>	<b>11</b>
<b>4.3</b>	<b>Transmission path(s) .....</b>	<b>11</b>
<b>4.3.1</b>	<b>General .....</b>	<b>11</b>
<b>4.3.2</b>	<b>TP using wires .....</b>	<b>12</b>
<b>4.3.3</b>	<b>TP using radio frequency link .....</b>	<b>12</b>
<b>4.3.4</b>	<b>TP using optical fibre .....</b>	<b>12</b>
<b>4.3.5</b>	<b>Network TP .....</b>	<b>12</b>
<b>4.4</b>	<b>Documentation .....</b>	<b>13</b>
<b>4.4.1</b>	<b>General .....</b>	<b>13</b>
<b>4.4.2</b>	<b>Documentation for compatibility .....</b>	<b>13</b>
<b>4.4.3</b>	<b>Documentation for connectivity .....</b>	<b>13</b>
<b>4.4.4</b>	<b>Software documentation .....</b>	<b>14</b>
<b>5</b>	<b>Assessment methods and tests .....</b>	<b>14</b>
<b>5.1</b>	<b>General .....</b>	<b>14</b>
<b>5.2</b>	<b>Provision of equipment and supporting information and tools .....</b>	<b>14</b>
<b>5.3</b>	<b>Configuration .....</b>	<b>15</b>
<b>5.3.1</b>	<b>General .....</b>	<b>15</b>
<b>5.3.2</b>	<b>Configuration at field level for assessment .....</b>	<b>15</b>
<b>5.3.3</b>	<b>Configuration at control level for network assessment .....</b>	<b>16</b>
<b>5.4</b>	<b>Standard atmospheric conditions for testing .....</b>	<b>16</b>
<b>5.5</b>	<b>Functional test for compatibility assessment on field level .....</b>	<b>16</b>
<b>5.5.1</b>	<b>The objective of the test .....</b>	<b>16</b>
<b>5.5.2</b>	<b>Test schedule .....</b>	<b>16</b>
<b>5.5.3</b>	<b>Functional tests for compatibility in the different conditions .....</b>	<b>17</b>
<b>5.6</b>	<b>Functional tests for connectivity assessment on field level .....</b>	<b>21</b>
<b>5.6.1</b>	<b>The objective of the test .....</b>	<b>21</b>
<b>5.6.2</b>	<b>Test schedule .....</b>	<b>21</b>
<b>5.6.3</b>	<b>Functional test for connectivity .....</b>	<b>21</b>
<b>Annex A (informative) Example of levels used in FDAS .....</b>		<b>22</b>
<b>Annex B (informative) Classification of functions of the FDAS .....</b>		<b>23</b>
<b>B.1</b>	<b>General .....</b>	<b>23</b>
<b>B.2</b>	<b>Fire detection function .....</b>	<b>23</b>
<b>B.3</b>	<b>Fire alarm to occupants in the premises .....</b>	<b>23</b>

<b>B.4</b>	<b>Fire alarm to summon external assistance (usually the fire brigade) .....</b>	<b>23</b>
<b>B.5</b>	<b>Activation of fire protection function.....</b>	<b>23</b>
<b>B.6</b>	<b>Remote indication 1 (remote panels, fire brigade panels, etc.).....</b>	<b>23</b>
<b>B.7</b>	<b>Remote indication 2 (printers, interface to building management system, etc.).....</b>	<b>24</b>
<b>B.8</b>	<b>Input function .....</b>	<b>24</b>
<b>B.9</b>	<b>Output function .....</b>	<b>24</b>
<b>B.10</b>	<b>Devices used to connect transmission paths (gateway, data switch, etc.).....</b>	<b>24</b>
	<b>Annex C (informative) Example methodology for theoretical analysis .....</b>	<b>25</b>
<b>C.1</b>	<b>Introduction.....</b>	<b>25</b>
<b>C.2</b>	<b>Method of test .....</b>	<b>25</b>
	<b>Annex D (normative) Software design documentation.....</b>	<b>28</b>
	<b>Annex E (informative) Flowchart for assessment of compatibility / connectability .....</b>	<b>30</b>