




Date: 2022-11-08

CERTIFICATE OF COMPLIANCE

This certificate of compliance validates the following			
TEST REPORT NUMBER 'Assessment Reports' are not acceptable	E216937-20010828	CERTIFICATE NUMBER	UVAV.E216937
DATE OF ISSUE	2001-08-28	DATE OF ISSUE	2022-02-10
DATE OF EXPIRY	Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service	DATE OF EXPIRY	Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service.
Manufacturer details			
NAME OF FACTORY / MANUFACTURER	European Safety Systems Ltd	NAME OF THE BRAND	E2S
FACTORY ADDRESS / REGION (STREET / TOWN / CITY / COUNTRY)	Impress House Mansell Rd London W3 7QH GB	MODEL / NO	L101HDC, L101HAC, L101XDC024
WEBSITE	www.e2s.com	LOGO ON THE PRODUCT	
TEL	+44 (0)208 743 8880	EMAIL	sales@e2s.com



Product Details From Test Report		Reference Test Report page NO
<p>DESCRIPTION OF THE PRODUCT (TECHNICAL DETAILS FROM TEST REPORT, SUCH AS ACTUAL FIRE RATINGS/DIMENSIONS/THICKNESS/ SENSITIVITY ETC)</p>	<p>Visual-signal Appliances for Fire-protective Signaling Systems - This category covers visual-signal appliances and accessories investigated for fire-protective signaling applications, and are intended for use with certified compatible fire alarm control units or control unit accessories.</p> <p>Visual Signal Appliances - Models L101HDC, L101HAC, L101XDC024.</p>	E216937-20010828
<p>TEST STANDARD (SUCH AS ASTM/BS EN/ DN ETC)</p>	<p>UL 1638, "Visible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories."</p> <p>1.1 This standard applies to visual signaling devices intended for indoor and/or outdoor installation in accordance with the National Electrical Code, NFPA 70, and the National Fire Alarm and Signaling Code, NFPA 72.</p> <p>1.2 These requirements cover visible signal devices for use in ordinary (non-hazardous) indoor locations and outdoor locations. This includes:</p> <p>a) Flashing visual devices used for fire alarm or emergency signaling in both public mode and private mode as defined in the glossary</p> <p>b) Emergency warning used to notify occupants that an emergency exists.</p> <p>c) Informative type visual signaling devices connected to or controlled by fire alarm or other emergency signaling system equipment, or both.</p> <p>1.3 This standard also applies to protective covers and accessories used with visible signals.</p> <p>1.4 This standard does not apply to visual signaling devices not intended for emergency signaling applications and intended for operation on Class 2 signal circuits as defined in the National Electrical Code, NFPA 70.</p>	E216937-20010828



	<p>1.5 Visible signaling devices for use in hazardous or corrosive locations shall comply with the requirements of this Standard and the applicable requirements of the National Electrical Code, NFPA 70.</p> <p>1.6 A supplementary audible signal, incorporated as part of a visible signaling device which is intended for fire alarm application shall comply with the requirements of this Standard and the applicable requirements of Standard for Audible Signal Appliances for Fire Alarm and Signaling Systems, Including Accessories, UL 464, and Standard for Speakers for Fire Alarm and Signaling Systems, Including Accessories, UL 1480.</p>																																									
<p>TEST DESCRIPTION</p>	<p>The following tests from the referenced standard(s), as applicable to the products submitted, were conducted:</p> <table border="1" data-bbox="516 955 1180 1923"> <thead> <tr> <th>UL 1638, Test Name</th> <th>Section</th> </tr> </thead> <tbody> <tr><td>General</td><td>7.1</td></tr> <tr><td>Input test</td><td>7.2</td></tr> <tr><td>Measurement of effective luminous intensity (light output)</td><td>7.3</td></tr> <tr><td>Reserved</td><td>7.4</td></tr> <tr><td>Temperature rise</td><td>7.5</td></tr> <tr><td>Dielectric voltage-withstand</td><td>7.6</td></tr> <tr><td>Endurance</td><td>7.7</td></tr> <tr><td>Variable ambient temperature</td><td>7.8</td></tr> <tr><td>Humidity</td><td>7.9</td></tr> <tr><td>Abnormal operation and burnout test</td><td>7.10</td></tr> <tr><td>Component stress</td><td>7.11</td></tr> <tr><td>Jarring</td><td>7.12</td></tr> <tr><td>Vibration</td><td>7.13</td></tr> <tr><td>Strain relief</td><td>7.14</td></tr> <tr><td>Accelerated corrosion tests</td><td>7.15</td></tr> <tr><td>Water spray</td><td>7.16</td></tr> <tr><td>Polarity reversal</td><td>7.17</td></tr> <tr><td>Electric shock current</td><td>7.18</td></tr> <tr><td>Tests on polymeric (plastic) materials</td><td>7.19</td></tr> </tbody> </table>	UL 1638, Test Name	Section	General	7.1	Input test	7.2	Measurement of effective luminous intensity (light output)	7.3	Reserved	7.4	Temperature rise	7.5	Dielectric voltage-withstand	7.6	Endurance	7.7	Variable ambient temperature	7.8	Humidity	7.9	Abnormal operation and burnout test	7.10	Component stress	7.11	Jarring	7.12	Vibration	7.13	Strain relief	7.14	Accelerated corrosion tests	7.15	Water spray	7.16	Polarity reversal	7.17	Electric shock current	7.18	Tests on polymeric (plastic) materials	7.19	<p>E216937-20010828</p>
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SPECIFICATION OF TEST SPECIMEN	The samples used for testing and evaluation were considered representative of the submitted products	E216937-20010828												
TEST RESULT (SUCH AS PASSED CRITERIA___/ COMPLIED TO___/ DURATION___/OBSERVATION___/ETC)	Pass – Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service	E216937-20010828												
PRODUCT APPLICATION GUIDELINE (END USE) (CLEARLY STATE THE END USE WITH SPECIFIC APPLICATION, SUCH AS EXACT FIRE RATING/TO BE INSTALLED IN___/TO BE INSTALLED AT___/TO BE CONNECTED WITH___/TO BE INSTALLED WITH___ ETC ALONG WITH ANY WARNINGS SUCH AS NOT TO BE USED IN___/NOT TO BE INSTALLED AT___/ NOT TO BE INSTALLED WITH___ ETC.	<p>This category covers visual-signal appliances and accessories investigated for fire-protective signaling applications, and are intended for use with certified compatible fire alarm control units or control unit accessories.</p> <p>Accessories, such as enclosures and back boxes, and the products with which they are compatible are identified in the individual certifications.</p> <p>Where multiple parts are employed to form a complete unit, the specific parts are identified in the individual certifications. The marking on each part references installation instructions which show assembly and installation of the parts to form a certified product.</p>	E216937-20010828												



	<p>All products covered under this category are intended for indoor use only unless otherwise specifically marked.</p> <p>Visual-signal appliances have been investigated for light output measured at a distance of 10 ft. on-axis. The units are marked with a range of light output and flash rate.</p>	
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Laboratory and Certification body details			
NAME OF CERTIFICATION BODY	UL LLC	NAME OF TEST FACILITY	UL LLC Facility
CERTIFICATION BODY ADDRESS / REGION <small>(STREET / TOWN / CITY / COUNTRY)</small>	333 Pfingsten Road, Northbrook, IL, USA	TEST FACILITY ADDRESS / REGION <small>(STREET / TOWN / CITY / COUNTRY)</small>	333 Pfingsten Road, Northbrook, IL, USA
WEBSITE	www.ul.com	WEBSITE	www.ul.com
TEL	+1-877-854-3577	TEL	+1-877-854-3577
EMAIL	FireandSecurity@ul.com	EMAIL	FireandSecurity@ul.com
ACCREDITED BY <small>(NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE CERTIFICATION BODY, ALONG WITH WEBSITE)</small>	American National Standards Institute (ANSI) as a product certification body ansi.org	ACCREDITED BY <small>(NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE LABORATORY, ALONG WITH WEBSITE)</small>	International Accreditation Services (IAS) www.iasonline.org
AS PER <small>(STANDARD TO WHICH THE CERTIFICATION BODY IS ACCREDITED TO)</small>	ISO/IEC 17065	AS PER <small>(STANDARD TO WHICH YOUR ORGANIZATION IS ACCREDITED TO)</small>	ISO/IEC 17025
VALIDITY <small>(EXPIRY DATE OF CERTIFICATION BODY ACCREDITATION)</small>	Active as of date of issuance of this certificate	VALIDITY <small>(EXPIRY DATE OF LABORATORY ACCREDITATION)</small>	Active as of date of issuance of this certificate
REFERENCE NUMBER: <small>(CERTIFICATION BODY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE)</small>	Accreditation ID #0198	REFERENCE NUMBER: <small>(THE LABORATORY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE)</small>	Accreditation ID# TL-157
CERTIFICATION MARK			



(ENDORSEMENT) TO BE SIGNED BY MANUFACTURER			
NAME OF MANUFACTURER'S SIGNATORY	Alan King	SIGNATURE	
EMAIL / TEL	alan.king@e2s.com +44 (0)20 8746 4326	FACTORY OFFICIAL SEAL	
NOTES: I Undertake that all data and information provided are genuine and accurate			

(ENDORSEMENT) TO BE SIGNED BY CERTIFICATION BODY			
NAME OF CERTIFICATION BODY SIGNATORY	Tim Fritz	SIGNATURE	
EMAIL / TEL	Timothy.C.Fritz@ul.com (847) 664-2520	CERTIFICATION BODY OFFICIAL SEAL	
NOTES: I Undertake that all data and information provided are genuine and accurate			

ATTACHMENTS:

- COPY OF 'CERTIFICATE OF COMPLIANCE' ISSUED BY CERTIFICATION BODY (OLD OR NEW)