

UL-EU CERTIFICATE

Certificate No. UL-EU-01128-CPR
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Date of Issue 2020-01-22
Certificate Holder LGM Products Ltd.
Unit 15 Riverside Ind. Park
Dogflud Way, Farnham, Surrey, GU9 7UG
United Kingdom

Manufacturer Factory A

Certified Product Type Non-resettable line-type heat detectors
Product Trade Name LocatorPlus-EN Sensor Control Unit
FT-78-EN Linear Heat Detection Cable (Performance Type: T078-V10-A045)
FT-88-EN Linear Heat Detection Cable (Performance Type: T088-V10-A065)
FT-EOL-EN End-of-Line Unit

Trademark 

Rating/Classification See Appendix

Technical Specifications EN54-28:2016
Supporting Documentation S24913-D01-EuropeanDirective-Original
Additional information NA
Expiry date 2029-08-23



Authorized Certification Decision Maker
Chris Miles

This is to certify that representative samples of the Certified Product listed above have been investigated by Underwriters Laboratories to the Standard(s) indicated on this Certificate, in accordance with the UL Global Services Agreement and the UL-EU Mark Service Terms and Conditions ("Agreement"). The Certificate Holder is entitled to use the UL-EU Mark for the Certified Product listed on the certificate and manufactured at the production site(s) listed, in accordance with the terms of the Agreement. Only those products bearing the UL-EU Mark for Europe should be considered as being covered by UL's UL-EU Mark Service. This Certificate shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.



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Essential Characteristics	Performance	Standard
4 - Product Characteristics	Pass	EN 54-28:2016
5.1 - General	Pass	EN 54-28:2016
5.2 - Nominal activation conditions/sensitivity		
5.2.1 - Individual alarm indication	Pass	EN 54-28:2016
5.2.2 - Signaling	Pass	EN 54-28:2016
5.3 - Operational reliability		
5.3.1 - Maximum ambient temperature test (endurance) for sensing element	Pass	EN 54-28:2016
5.3.2 - Connection of ancillary devices	Pass	EN 54-28:2016
5.3.3 - Manufacturer's adjustments	Pass	EN 54-28:2016
5.3.4 - Requirements for software controlled detectors	Pass	EN 54-28:2016
5.3.5 - Sensing element fault	Pass	EN 54-28:2016
5.3.6 - On-site adjustment of response behaviour	NA	
5.4 - Tolerance to supply voltage		
5.4.1 - Variation in supply parameters	Pass	EN 54-28:2016
5.4.2 - Low voltage fault (sensor control unit with external power supply)	Pass	EN 54-28:2016
5.5 - Performance parameters under fire condition	Pass	EN 54-28:2016
5.6 - Durability of performance parameters under fire condition		
5.6.1 - Temperature resistance		
5.6.1.1 - Dry heat (operational) test for sensor control unit	Pass	EN 54-28:2016
5.6.1.2 - Cold (operational) for sensing element	Pass	EN 54-28:2016
5.6.1.3 - Cold (operational) for sensor control unit	Pass	EN 54-28:2016
5.6.2 - Humidity resistance		
5.6.2.1 - Damp heat, steady-state (endurance) for sensor control unit and sensing element	Pass	EN 54-28:2016
5.6.2.2 - Damp heat, cyclic (operational) for sensing element	Pass	EN 54-28:2016
5.6.2.3 - Damp heat, cyclic (operational) for sensor control unit	Pass	EN 54-28:2016
5.6.2.4 - Damp heat, steady-state (operational) for sensor control unit	NA	
5.6.2.5 - Damp heat, cyclic (endurance) for sensor control unit and sensing element	NA	
5.6.3 - Shock and vibration resistance		
5.6.3.1 - Shock (operational) for sensor control unit	Pass	EN 54-28:2016
5.6.3.2 - Impact (operational) for sensor control unit	Pass	EN 54-28:2016
5.6.3.3 - Impact (operational) for sensing element	Pass	EN 54-28:2016
5.6.3.4 - Vibration, sinusoidal (operational) for sensor control unit	Pass	EN 54-28:2016
5.6.3.5 - Vibration, sinusoidal (operational) for sensing element	Pass	EN 54-28:2016
5.6.3.6 - Vibration, sinusoidal (endurance) for sensor control unit	Pass	EN 54-28:2016
5.6.3.7 - Vibration, sinusoidal (endurance) for sensing element	Pass	EN 54-28:2016
5.6.4 - Test for corrosion resistance		
5.6.4.1 - Sulphur dioxide (SO ₂) corrosion (endurance) for sensing element	Pass	EN 54-28:2016
5.6.4.2 - Sulphur dioxide (SO ₂) corrosion (endurance) for sensor control unit	Pass	EN 54-28:2016
5.6.5 - Electrical stability	Pass	EN 54-28:2016

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Ratings for Sensor Control Unit (LocatorPlus-EN)	
Operating Voltage:	24 VDC (12-36 VDC)
Alarm Relay Rating:	30 VAC/42.4 VDC, 2 A (2 x Form C)
Fault Contact Ratings:	35 VDC maximum, 80 mA maximum (2 x outputs)
Zone End-of-Line Resistor	3.6 k ohm (Zone 1 and Zone 2)

This device must only be powered with an EN54-4 compliant power supply.

Ratings for Sensing Element (FT-78-EN)	
Marked Rating:	T078-V10-A045
Nominal Alarm Temperature:	78°C
Tolerance Alarm Temperature:	±10% (±7.8°C)
Maximum Ambient Temperature:	45°C

Ratings for Sensing Element (FT-88-EN)	
Marked Rating:	T088-V10-A065
Nominal Alarm Temperature:	88°C
Tolerance Alarm Temperature:	±10% (±8.8°C)
Maximum Ambient Temperature:	65°C

Ratings for Functional Unit (FT-EOL-EN)	
N/A	N/A



Appendix UL-EU Certificate

Certification Mark	UL-EU mark
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The UL-EU Mark, as displayed below, shall appear on certified products only. Minimum size is not specified, as long as the Mark is legible. The following is suggested.



The minimum height of the registered trademark symbol ® shall be 1 mm. When the overall diameter of the UL-EU Mark is less than 9.5 mm, the trademark symbol may be omitted if it is not legible to the naked eye.

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