



GatewayFL

System Description and Technical Specifications

Application

FirstLink is a complete and fully code-compliant emergency egress lighting system, comprised of the FirstLink application and FirstLink enabled hardware, such as emergency LED drivers, exit signs, combo exit signs, unit equipment and now the FirstLink GatewayFL.

The FirstLink application is available for iOS and Android smart devices, and provides easy and instant access to the status of the emergency lighting system.

The FirstLink Gateway (GatewayFL) permits external cloud and network connectivity, which means it also enables remote access to the network for quick reporting and maintenance notifications.

Operation

Once commissioned using the FirstLink app from a phone and then activated with a FirstLink Service Plan, the GatewayFL can be used to access the status of all devices in the connected emergency lighting system. The GatewayFL will collect test results from the devices and forward them on a regular basis to the cloud from which email reports will be generated. In addition, fault notifications from any tests will be emailed to authorized users as well. With this information a technician can then quickly be dispatched with prior knowledge of the device type, where it is located in the building and why it failed the test.

As with any FirstLink system, when AC power fails, the FirstLink connected emergency lighting hardware immediately switches to the emergency mode, providing emergency illumination for a minimum of 90 minutes. When AC power is restored, the hardware automatically returns to the charging mode. This hardware functionality does not affect the GatewayFL in any way.

During automated testing, the hardware simulates an AC power outage, causing it to switch to emergency mode and conduct a discharge test. During this test, the hardware monitors battery voltage and the emergency light source's operation. If a problem is detected, the status indicator light flashes and the error information is stored in the devices internal memory. When testing is complete, the FirstLink hardware returns to the charging mode. Automatic testing occurs each month for 30 seconds and once annually for 90 minutes. Again, this hardware functionality does not affect the GatewayFL in any way.

Specification

Emergency lighting shall be provided by a combination of exit signs, combination exit signs, unit equipment, and/or LED luminaires using emergency drivers equipped with Bodine's FirstLink connected emergency lighting technology. These FirstLink emergency lighting devices shall be Listed to UL 924 for factory or field installation, capable of forming a wireless Zigbee mesh network which allows the devices to transmit data and commands between one another, use Bluetooth connectivity to provide access to the FirstLink hardware with a smart device application, the FirstLink app, compatible with iOS and Android devices and permit remote access and automatic notification when using the GatewayFL and a FirstLink Service Plan.

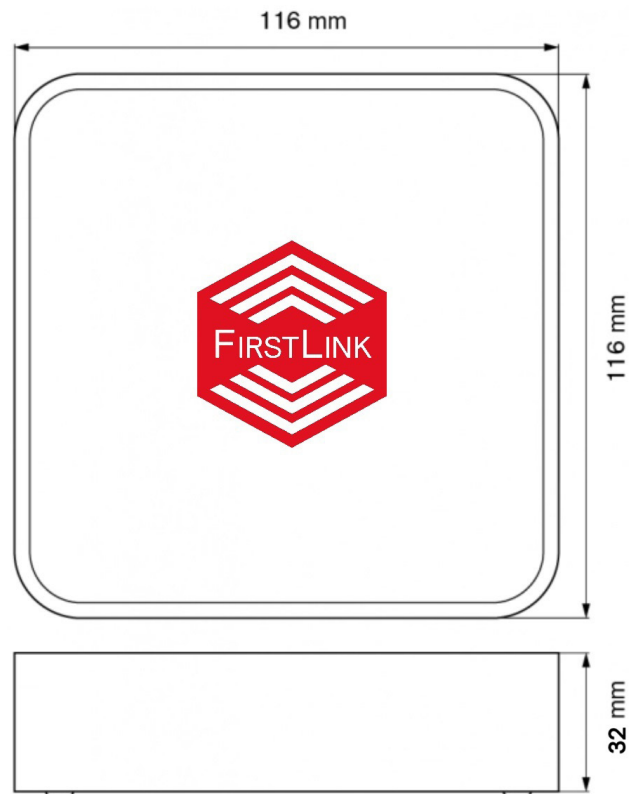
The connected emergency lighting system shall contain self-testing/self-diagnostic circuitry, where results can be read by the FirstLink application and processed into a report. Additionally, the FirstLink application allows test schedules to be changed and for products to be manually tested. The FirstLink wireless Zigbee mesh network shall allow test result data to be downloaded from the FirstLink hardware's network by the FirstLink application when the smart device is in proximity to just one emergency device in the mesh. The FirstLink system will also generate system status report for viewing and sharing and allow project data to be uploaded to the cloud for storage and future retrieval.

FirstLink Gateway for Connected Emergency Lighting Cloud Access

- IP-based device with Ethernet connection and wireless Bluetooth and Zigbee communication
- Each GatewayFL supports up to 120 devices
- Enhanced security with encrypted protection
- Universal input UL Listed Class 2 power supply
- Fully compatible with Signify FirstLink Connected Emergency Lighting System
- Remote access to test results and automatic notification of test failures with service plan
- 5-Year Limited Warranty

Ordering Information:

Ordering code: GATEWAYFL 12NC: 929004853401



GatewayFL

Operating and Electrical

Power supply input voltage	100-240 VAC
Power supply input frequency	50/60 Hz
Power supply input current	0.3 A
Power supply output voltage	5.0 VDC
Power supply output current	1.0 A
Power supply output power	5.0 W

Mechanical and Housing

Housing material	Thermoplastic (ABS)
Flammability Rating	UL 94 V-0
Housing color	White
Shipping weight	0.63 lbs (0.284 kgs)
Shipping box dimensions	5.13" x 4.75" x 2.75" (130mm x 121mm x 70mm)

Compliance and compatibility

Regulatory	UL Listed (File E311901)
EMI and immunity	FCC Certified
Wireless network	IEEE 802.15.4
Device compatibility	iOS 16.0 or higher Android version 11 or higher

Connectivity and Security

Gateway to device	Zigbee 3.0
Gateway to app on phone	BLE 5.0 or higher
Connection to Cloud	Ethernet port #1
Other connectivity	WiFi 6 prepared for expansion
Security	Encryption protected
Wireless range (open air)	64' for Zigbee; 32' for BLE
Maximum number of nodes/devices	120

Code Compliance

The GatewayFL and the FirstLink system hardware complies with Part 15 of the FCC Regulations. The FirstLink system emergency devices also meet CEC Title 20 (California Energy Commission) or DOE (Department of Energy) efficiency regulations (depending on the requirements of the product). The FirstLink system hardware is also be Listed to UL 924 for factory or field installation in the USA or Canada.

Limited Warranty

FirstLink products, including the GatewayFL, are warranted for five (5) full years from date of manufacture. Please see detailed warranty information on our website.

GatewayFL FirstLink Commissioning

FirstLink equipped emergency products, including the GatewayFL, are commissioned using the FirstLink app, which can be downloaded from the Apple Store or Google Play. More details for the full commissioning process can be found using the FirstLink App Guide at <https://www.signify.com/firstlinkguide>.

FirstLink Services

The GatewayFL is required to enable remote access to the FirstLink Connected Emergency Lighting System. In addition, a secure connection to the Signify Cloud and a valid contact ID are also required. In order to enable this connection, please refer to the FirstLink Services Brochure for more details at <https://www.signify.com/firstlinkservices>.

GatewayFL User Interfaces/Signals

- Reset pushbutton for hard reset
- RGB status LED Indicator
 - RED - non-commissioned
 - PURPLE blinking - identification
 - BLUE - stand-alone commissioned
 - ORANGE - Zigbee connection lost
 - GREEN - commissioned and cloud connected

FirstLink System Diagram

