

Introduction to the Whitecroft Wireless Emergency Test System

Whitecroft's Wireless Emergency Test is a standalone emergency lighting test system providing testing and reporting to BS EN 62034 via a wireless 2.4GHz RF Mesh. The system's simplicity means that the user can be assured that the emergency lighting installation is being routinely tested and monitored in accordance with BS EN 50172.

The system allows for a simple installation of a wireless 2.4GHz RF integrated basicDIM Wireless G2 module within the luminaire during manufacture. This allows for a simple, low risk, easy to design emergency lighting test system.

Our sceneCOM evo gateway can connect with up to 192 basicDIM enabled emergency luminaires on 3 Dali lines via our basicDIM Wireless Passive G2 modules. In this application all SceneCOM evo gateways will be treated as stand-alone with no Ethernet network between. Networking could be added later if required and relevant Ethernet network infrastructure is in place.

To comply with current legislation the SceneCOM evo gateway will be commissioned to automatically test and report to BS EN 5266. To access the reports the end user must connect to each SceneCOM evo gateway via industry standard RJ45 Ethernet connection. Connect via ethernet compatible laptop type PC complete with HTML5 browser. Reports must be downloaded, logged and centrally stored via the laptop for legislation compliance.

Please be mindful when positioning the SceneCOM evo gateway so that it can communicate with multiple luminaires to avoid a single point of failure. To ensure reliable transmission of the wireless mesh we recommend a maximum distance of 15 metres between emergency modules. Please note: The building's construction materials can vary transmission distances.

Features

- IoT Smart EMG test system
- Integral mains supply and 2.4GHz RF antennae
- Three 2.4GHz RF Mesh networks (3 x 64 devices)
- Routine function and duration tests
- Downloadable test data
- Complies with EN 61347-2-11
- Complies with EN 62386 DALI WiFi standard
- It is security encrypted at the 128-BIT AES encryption
- Automatic fault indication via luminaire mounted bi-colour LED or via downloadable report
- Surface or recessed mounting
- Commissioning made simple using portable smart device

Optional Features

- Password protected active functions
- System commissioning data can be downloaded
- Devices can be addressed individually, by 'Network' or by 'Group'
- Future scalable via gateway connection on Ethernet network (by others) up to 200 sceneCOM evo gateways can be connected to a centralised PC with emLINK v2.
- Cloud connectivity when paired with Ethernet Network option above or mobile connectivity eg: 4G.

Optional - Ethernet Network

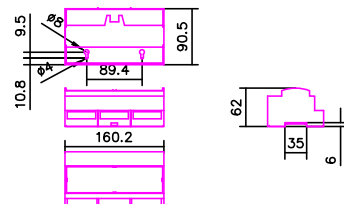
Ethernet Cable: 1 x RJ45 10/100Mbps, Cat 5e up to 100m (Audio MDI/MDI-X Crossover). All equipment, wiring and connections are the responsibility of the customer. Please note that the Ethernet Network is to be supplied and installed by others.

Note If the customers' ethernet network is not dedicated to the Whitecroft Wireless Emergency system then static IP addresses will need to be issued to Whitecroft prior to the commissioning of the controls installation. One Static IP address will be required for each SceneCOM evo gateways. Please liaise with Whitecroft Commissioning Department for confirmation of the number of Static IP addresses required.

SceneCOM evo gateway



SceneCOM evo gateway must be mounted on DIN rail within a Non-Metallic Enclosure to allow Stable Wireless mesh communication



Technical Data

- Single Master DALI-2 application controller
- Independent Emergency Testing and Reporting for up to 192 DALI emergency devices
- 3 DALI wireless communication lines
- Simple setup via WEB interface
- Complies with IEC 62034

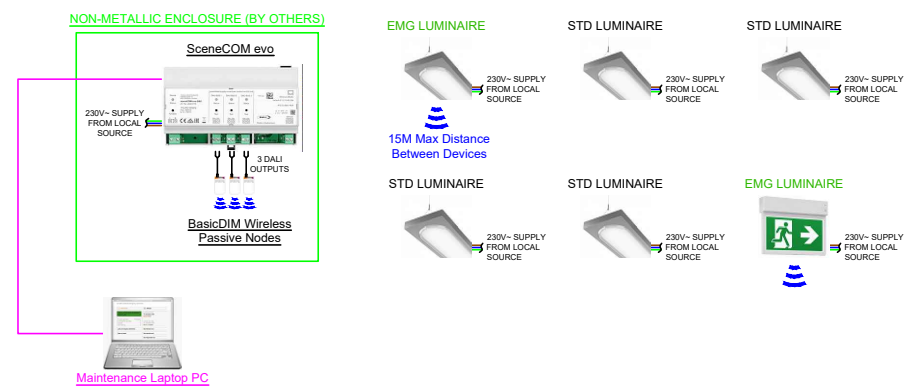
Housing properties

- Casing: polycarbonate, white
- Type of protection IP20
- DIN rail mounting within separate enclosure (by others) see spec on this sheet

Interfaces

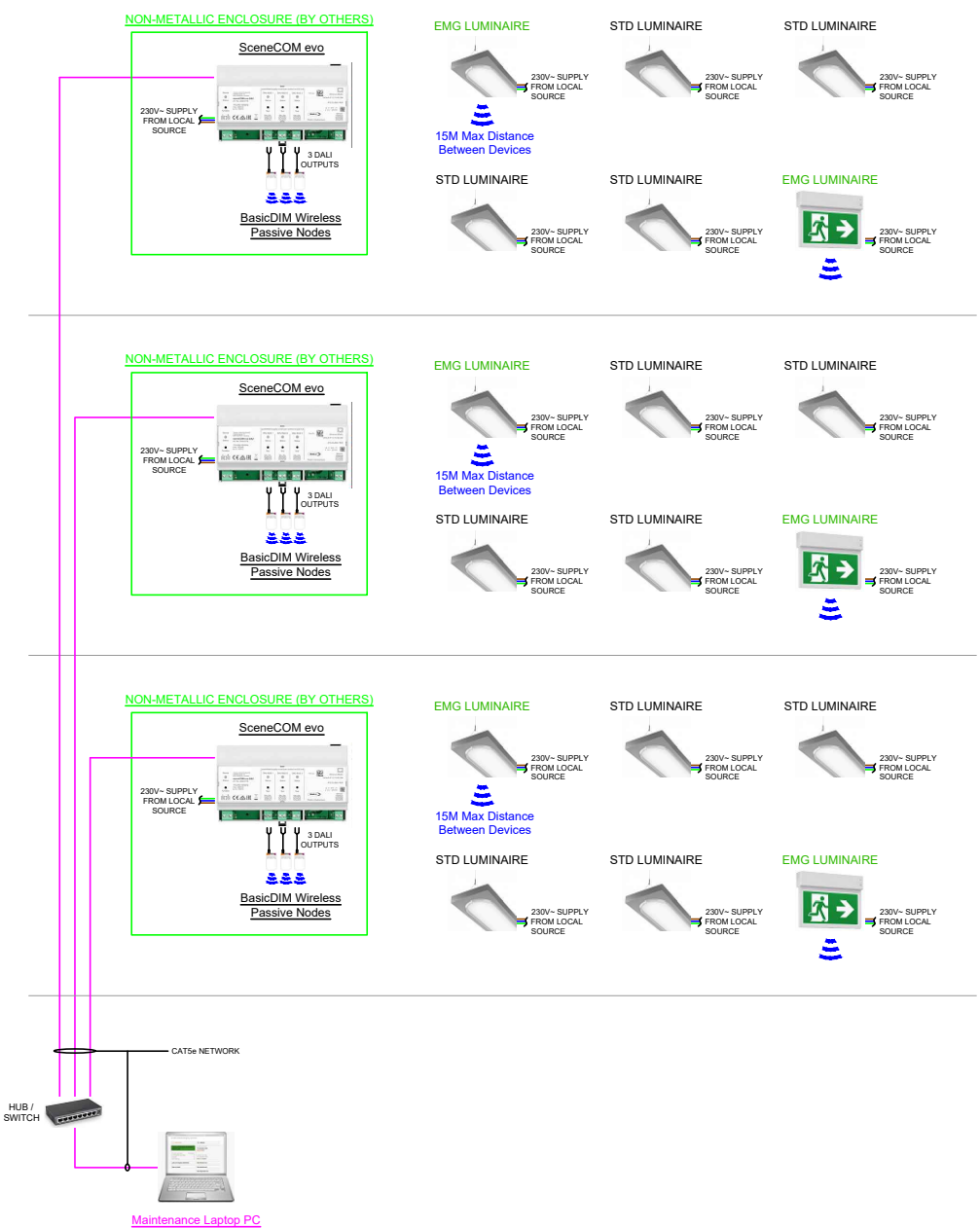
- Terminal blocks: screw terminals
- Local and downloadable backup via ethernet RJ45

Stand-Alone Installation



Typical Larger Networked Installation

Up to 200 sceneCOM evos can be connected via additional emLINK v2.



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Note :- All information detailed in this document is not project specific, and is provided as a typical example only. Whitecroft Lighting reserve the right to make changes to Equipment and Specification as required. It is the customers responsibility to verify the required specification on a project by project basis.

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