Harvard Technology

REV 1.1

LeafNut

BranchNode

The BranchNode links directly to the electronic ballast within the lantern and uses a radio transceiver to communicate with up to 256 LeafNodes in a 1Km radius of an urban environment.

It also uses a modem to communicate over the mobile phone network for remote monitoring and control of connected equipment

It mounts on to the lantern through a 20mm fixing hole (the same size as used for a mini photo cell) and has a neoprene seal around the base to provide adequate protection against water ingress.

Frequency compatibility of 915MHz also available.

BranchNode Power Supply Unit available.

UMSUG code (Dim code as per Ballast's UMSUG code)

BranchNode - 98 0002 0005 100*

Powered by an independent supply and not attached to any lighting column - 817 0002 005 100*

(*100% Circuit Watts)

Product Description

- WiMAC 868MHz compatible communications
- Can be retrofitted into existing lanterns
- Plug in connection

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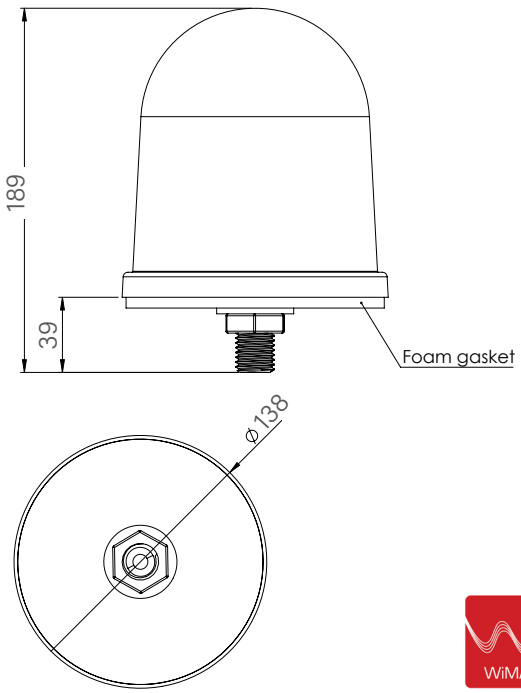
Compatibility with LeafNut CMS as standard.

LeafNut, our multi award winning street lighting control system is revolutionising outdoor lighting with over 400,000 street lights being deployed worldwide.

LeafNut has been developed by our UK based research and development team and uses ground-breaking wireless technology to cut carbon emissions and reduce energy consumption.

Dimensions



WiMAC CE

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Technical Specification

Mounting	20mm hole, nut & sealing washer provided
Environment Protection	Externally sealed enclosure
Windage	0.0178m^2
Housing material	Rugged polycarbonate enclosure
Capacity	One BranchNode will support up to 256 LeafNodes
Ballast compatibility	Connects directly to a range of WiMAC enabled Ballasts
Operating temperature range	-20˚C to 55˚C
Leaf communications	WiMAC 868 or WiMAC 915 Pseudo random channel hopping system
Operating frequency	868MHz or 915HMz FM Narrow band
Range	1Km typical urban up-to 8Km line of sight
Receiver Classification	Class 2
Equipment Classification	Class 1
GSM Communications	Quad band GSM / GPRS, integral antenna
Photocell (internal)	Adjustable 18 to 105 Lux
Power Supply Requirements	Supplied from WiMAC enabled ballast
Recommended mains input circuit protection	6A - if Branchnode will be powered directly from electronic ballast 10A - if Branchnode will be supplied from LCMPUA-240-A

Variants

Part number	Operating Frequency
WMBN-868EUR	868
WMBN-868GB	868
WMBN-915ANZ	915
WMBN-915USA	915

Compliance

Standards
EN300 220 / Rec 70-03 Annex1 (g1) / FCC Part 15 / EN 55015 / ENG1000

CE

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