Stanilite and Nexus Introduction

STANILITE – THE BRAND

Stanilite®

STANILITE: A BRIEF HISTORY

- Designing Emergency and Evacuation Lighting Systems in Australia for 40 years
- Local R&D, local engineering, local manufacture, local assembly
- Australian Design Award winner for the Quickfit mounting bracket
- "Bespoke" solutions capability
- A pioneer in the successful application of wireless technology in Emergency Lighting, employing patented technology
- The Market Leader, with more than 40% share, dominant in the "premium project" and monitored systems sector

STANILITE – THE BRAND

Stanilite®

WHY EMERGENCY LIGHTING?

- Emergency Lighting is only included in commercial buildings because the Law dictates that it must be

- Regulatory framework in Australia includes:

  - The Building Codes Board: Responsible for the "Building Code of Australia" (BCA)

  - Standards Australia: Responsible for the technical standards applicable to emergency lighting

  - Building Certifiers: Responsible for approval of new commercial premises prior to occupation

  - Fire & Rescue Services: Check on compliance with testing regimes
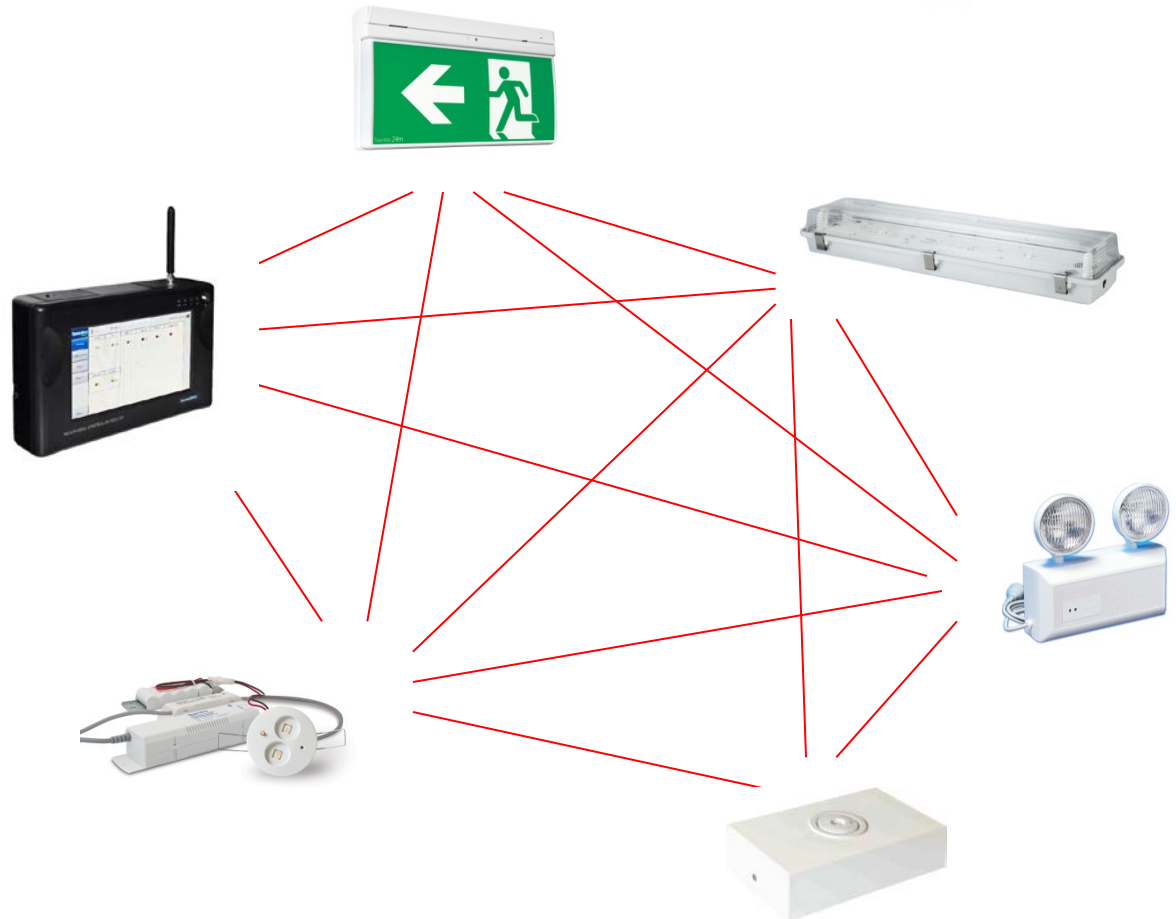
NEXUS RF

A BRIEF HISTORY

- Nexus RF (Radio Frequency) launched into the Australian market in 2007
- Over 450 major facilities including Airports, Hospitals, Office Towers, Universities, Defence Sites and Shopping Centres
- Unequalled success in simplicity and financial advantage against other systems in renovation work and multi-building facilities
- Reduced installation and networking
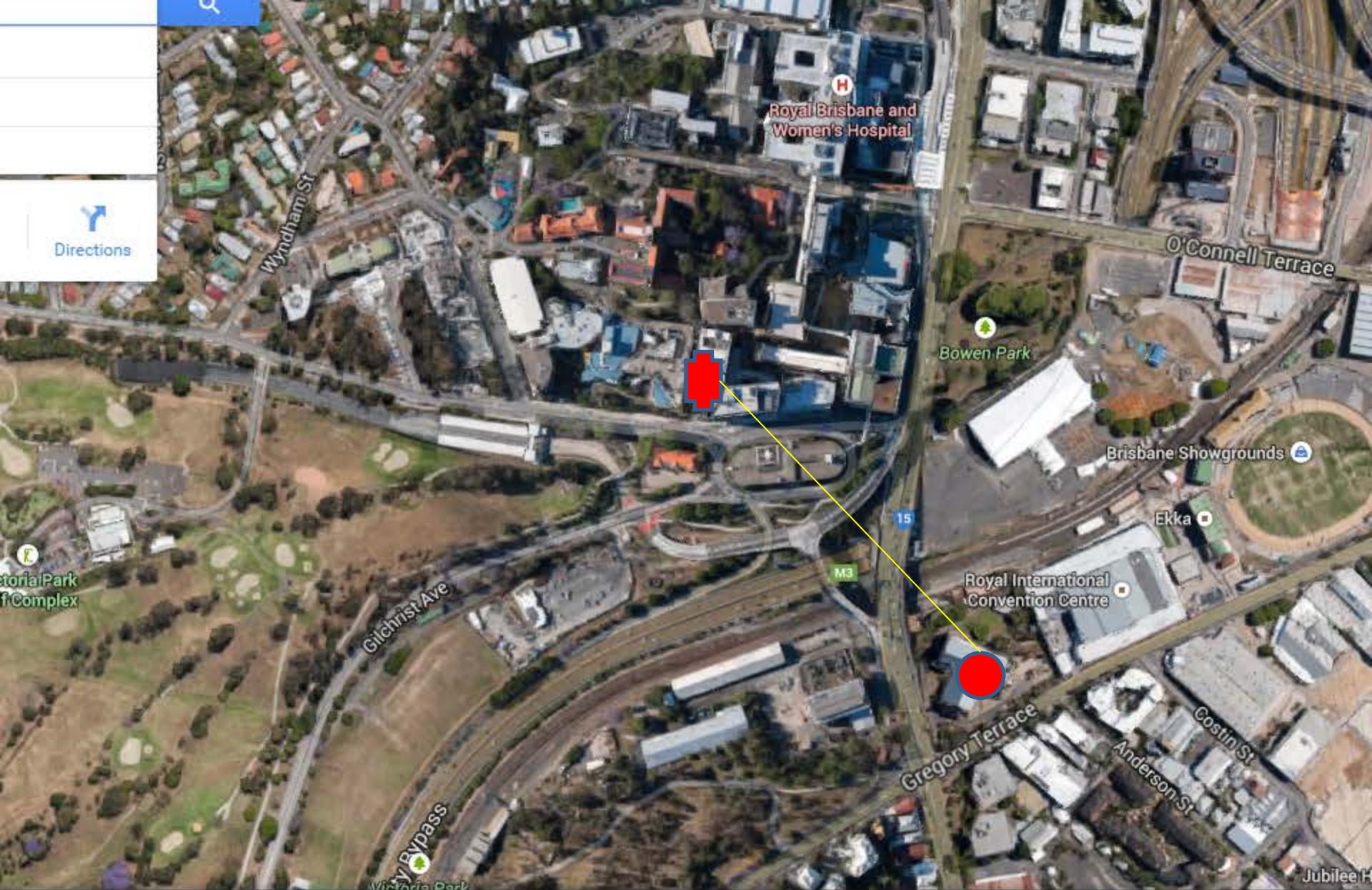- Reliability of Nexus RF product due to rigid procedures in our factory and during the project

NEXUS RF

Wireless Mesh Networking

NEXUS RF

THE KEYS TO SYSTEM PERFORMANCE:

- Automatic network formation

- Nodes capable of communicating with neighbouring nodes

- 915-928 MHz allows high penetration and reduced competition for bandwidth
- Proprietary wireless communications protocol

- Optical channel selection, error correction

- Unaffected by the quality of cable installation

- Self repairing system

PA Hospital Building 1

PAH BUILDING 1

Units in domain
Routers in domain
Domain tools
Commissioning
Emergency light testing
Reports

SPUS

Total	Online	Offline	Maintenance	Retest	Test Due	Uncommission	2Day Offline	Duplicate Spuid
1665	1650	15	4	18	28	8	5	1

ROUTERS

12	13	14	15	16	17	18	19	20	21
109	79	10	113	120	86	109	27	76	121

22	23	24	25	26	27	28	30	31	200
45	76	27	112	84	124	106	37	11	57

201
121

GROUPS

	Group ID	Name	Schedule Test	Units
	0	Defaults Group		8
	1	BASEMENT		216
	2	T4 TUNNEL		40
	3	T6 TUNNEL		10
	100	GROUND		307
	101	LEVEL 1		273
	102	LEVEL 2		177
	103	LEVEL 3		139
	104	LEVEL 3 THEATRES & VHOT		47
	105	LEVEL 4		217

PA Hospital ED Department

Nexus RF

Nexus NAC - 2

Nexus RF controlling unit
Controls the first 90 fittings of a project
Remembers the whole data base
Can be web browsed or linked to LAN
No PC required
No program required
Remote access via any web browser capable device.
Simple firmware upgrade
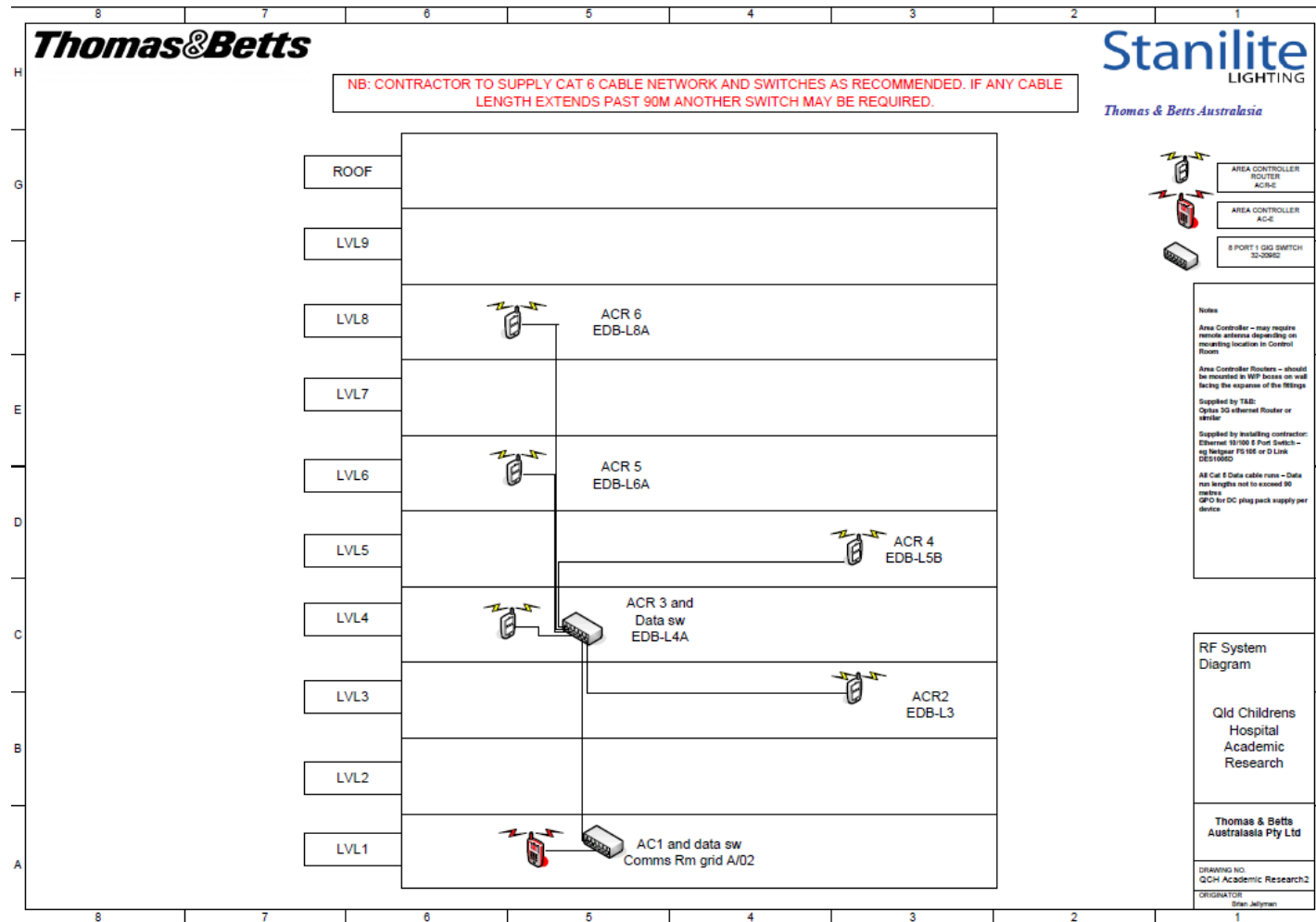Connection to routers via Ethernet or LAN connection

Nexus RF

Nexus NACR -1

Has all the capabilities as the area controller
1 required for every 90 fittings
Remembers the whole data base
Can be web browsed or linked to LAN
Simple firmware upgrade
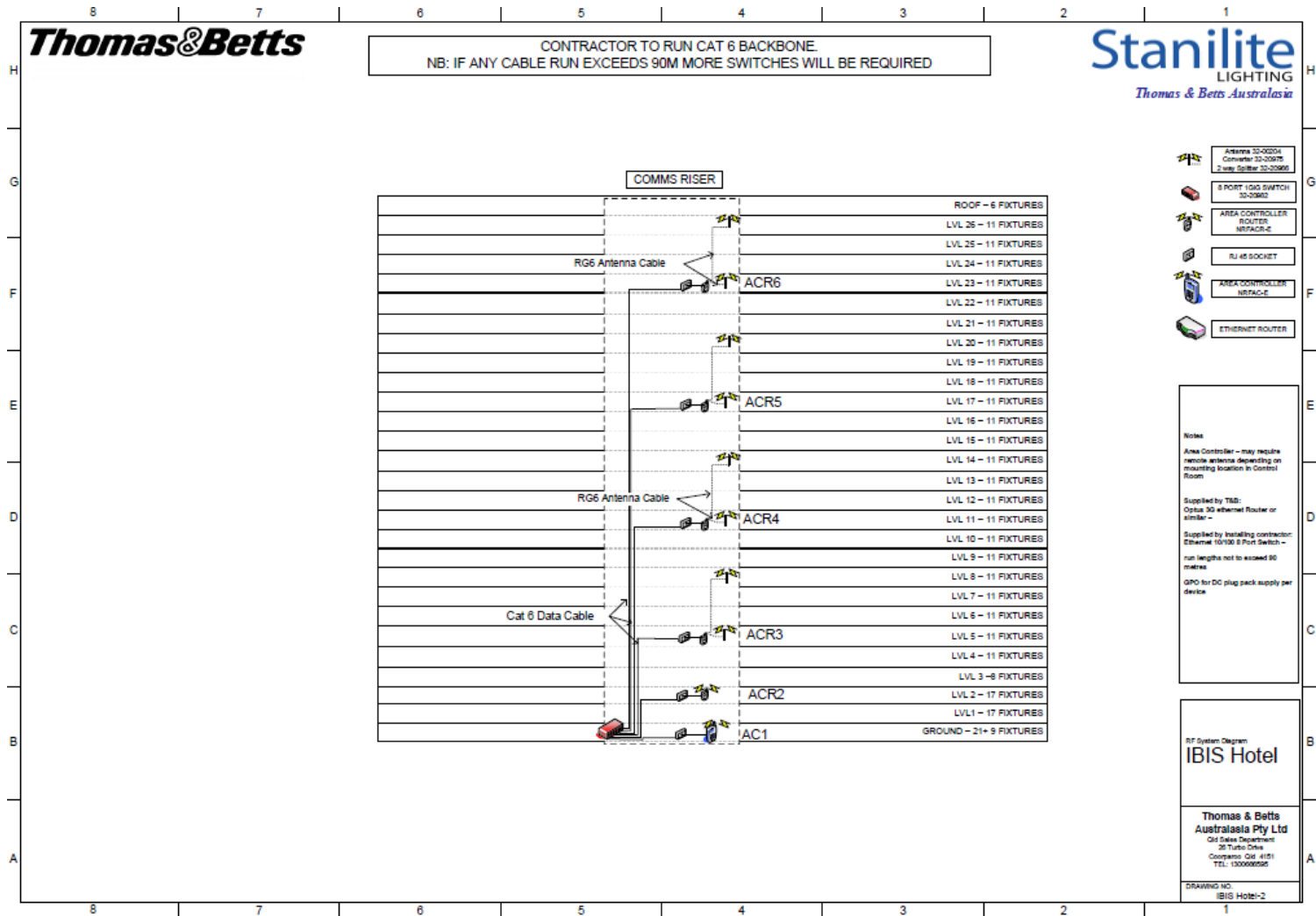Connection to area controller or routers via
ethernet or LAN connection

Network Diagram 11 Storey Medical Research Centre

CASE POINT 1

BRISBANE MARKETS UPGRADE:

Project upgrade emergency lighting across 22 buildings over 3 sites and to centralise all emergency lighting reporting and testing.

Nexus Hybrid RF	**vs**	**Other Brand**
$250K	vs	$210K (wholesale price)
$250K	vs	$270K (complete package)
Included	vs	$9K (commissioning labour)
$5,000	vs	$12K (plant equipment hire)
$255,000	vs	$291K (installed)

CASE POINT 2

PRINCESS ALEXANDRA HOSPITAL: (30 year old site with 5,000 emergencies)

Existing Powerline Carrier System is not able to perform tests due to ongoing issues from installation 13 years ago. Client is spending $140K per year in repairs. Poor support.

Solution: Install a series of Nexus Hybrid RF Routers throughout the facility. After every 6-month emergency test, install Nexus fittings in place of failed fittings.

Commission: Repeat every 6 months,

Current Status: 50% complete

CURRENT NEXUS RF SITES

HOSPITALS

- Bennalla Base Hospital
- Queensland Children's Hospital
- Princess Alexandra Hospital
- QCH Central Energy Facility
- QCH Academic and Research Facility
- Rockhampton Hospital
- Mater Hospital
- St Andrews Toowoomba
- Ballie Henderson Hospital Toowoomba
- Cairns North Hospital
- Westmead Children's Hospital Car Park
- Ronald MacDonald House
- Prince of Wales Hospital
- Mona Vale Hospital
- Napean Hospital
- St Vincent's Mater Hospital
- Shell Harbour Hospital
- Quirindi Hospital
- Port Macquarie Hospital

- Orange Base Hospital
- Narrabri Hospital
- Moree Hospital
- Manning Base Hospital
- Manilla Multi Purpose Service & Health One
- Lismore Base Hospital
- Gunnedah Hospital
- Gosford Private Hospital
- Glen Innes Hospital
- Concord Hospital
- Boggabri Hospital
- QIMR Bancroft

CURRENT NEXUS RF SITES

FACILITIES

- Harvey Norman Stores
- Stanwell Rockhampton Power Station
- Cairns Courthouse
- M&A
- Terrica Place 3 towers
- 295 Ann Street
- Alice Springs Airport
- Alice Springs Casino
- Australian Stock Exchange
- Cairns Courthouse
- Carindale Shopping centre
- Carrara Stadium
- Commonwealth Law Courts
- David Jones Toowong
- DHS Victoria
- Ipswich City Council
- Lotus Glen Correctional Centre
- Brisbane Domestic Airport
- Toyota Head Office

- Sydney International Airport
- Clifford Gardens Shopping Centre
- River link Shopping Centre
- Runaway Bay Shopping Village
- QIMR
- 144 Qrail Metropolitan Stations
- Indooroopilly Shopping Centre
- Townsville Airport
- Virginia Bus Station
- Newcastle Council
- Westrac Tomago
- Sydney Paddy's & Flemington Markets
- St George Leagues Club

CURRENT NEXUS RF SITES

EDUCATION
- Southern Cross University Lismore
- Sunshine Coast University
- University of Southern Queensland
- University of Queensland Global Change
- All Saints Merrimac
- Erindale College
- University of Western Sydney
- Uni of Sydney
- Ourimbah University
- Newcastle University
- Macquarie University
- Logan Tafe
- P.A.C.E.
- Townsville Trade Training Centre
- Pimlico TAFE
- Lourdes Hill College

AGED CARE
- RSL Care Yeppoon
- Azure Blue Carina
- Rockhampton Nursing Home
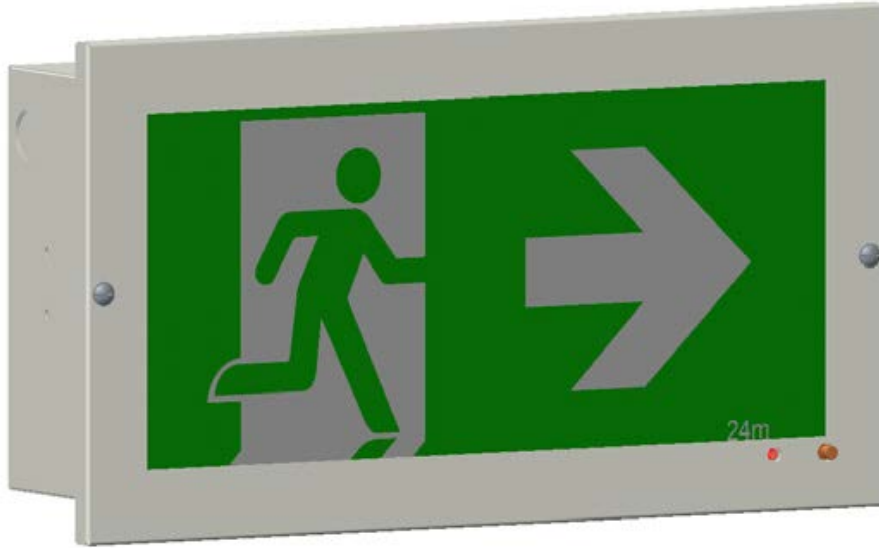- Port Macquarie Aged Care

PQFLEDP

PQFLEDP Quickfit Exit

Features:

Quickfit® unique steel slide connect bracket for quick installation and easy maintenance
LED technology 100,000 hours plus lamp life
One Box solution
Universal wall/ceiling mounting, can also be rod or wire suspended
Advanced technology Lithium Iron Phosphate battery for long life and low maintenance
Advanced pulsetime battery charging
Low power consumption and LED light source for reduced operation and maintenance costs
Nexus® monitored, either cabled or wireless
Total Power Consumption 3.2 watts
5 year warranty

Thomas&Betts
A Member of the ABB Group

PLRWLED-1

Features

Slim, elegant and easy to maintain

LED technology 50,000 hours plus lamp life

Large terminal block ($16mm_2$) for easy wiring

Advanced PulseTIME® dual rate battery charger with high temperature NiMH batteries

Cable entry at either end of base

Option - Standard, Nexus® LX monitored or Nexus RF monitored

Total Power Consumption 2.84w

Classification

24 meter viewing distance only.

PLQLEDP

Features:

Architecturally pleasing slim line design
Quickfit® unique steel slide connect bracket for quick installation and easy maintenance
LED technology 100,000 hours plus lamp life
High emergency classification
Includes all pictograph diffuser options
Universal wall/ceiling mounting, can also be rod or wire suspended
Advanced technology Lithium Iron Phosphate battery for long life and low maintenance
Advanced pulsetime battery charging
2.4 watts total power consumption and LED light source for reduced operation and maintenance costs
Retrofit capability; fits into any existing Quickfit mounting bracket
5 year warranty

Classification
C0 D3.2
C90 E2

PWQFLEDP

Features:

Unique steel QuickfitTM mounting bracket that provides strength and enables quick and easy maintenance

PerpetuLEDTM LED technology 100,000 hours plus lamp life

Advanced PulseTIMETM dual rate battery charger with high temperature NiCad batteries

UV stabilised vandal resistant polycarbonate cover or high impact chemical resistant acrylic cover option

Option - Standard, Nexus LX monitored or Nexus RF monitored (see separate technical data sheet)

Can be wall or ceiling mounted and optional bracket kits available for strengthened wall and cantilever mounting

Total Power Consumption 3.9w

Classification
C0 D3.2
C90 D3.2

PLRLEDP

Features:
Architecturally pleasing slim line design
Recessed Style suitable for 6mm-19mm ceiling
LED technology 100,000 hours plus lamp life
High emergency classification
Includes all pictograph diffuser options
Advanced technology Lithium Iron Phosphate battery
for long life and low maintenance
Advanced pulsetime battery charging
2.4 watts total power consumption and LED light source
for reduced operation and maintenance costs
Retrofit capability; fits into any existing Quickfit
mounting bracket
5 year warranty
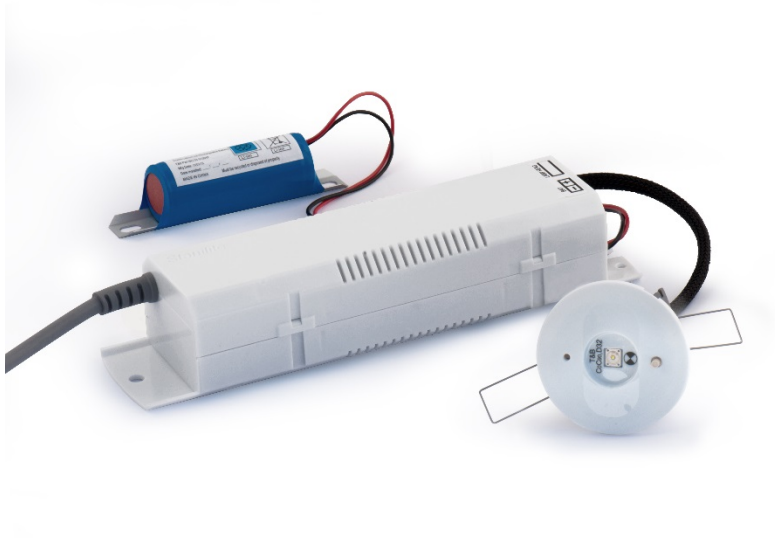
Classification
C0 D3.2
C90 E2

VPQLEDP

Features:

IK9 mechanical impact resistance

Vermin resistance

Unique internal steel slide connect bracket for quick installation and easy maintenance

LED technology 100,000 hours plus lamp life

Strong steel body and end cap

Anti-tamper cover screws

Universal wall/ceiling mounting

Includes all Pictograph diffuser options for single or double sided installation

Advanced technology Lithium Iron Phosphate battery for long life and low maintenance

Advanced pulsetime battery charging

Low power consumption and LED light source for reduced operation and maintenance costs

Total Power Consumption 3.2W

5 year warranty

Classification

C90 E1.25

C0 E1.25

SF1LEDP

SFNRF1LEDP Spitfire

Features:

LED technology 100,000 hours plus lamp life

Single or dual LED option

Superior photometric D40 classification 1LED Advanced technology Lithium Iron Phosphate battery for long life and low maintenance

Advanced pulsetime battery charging

Low power consumption and LED light source for reduced operation and maintenance costs

Nexus® monitored, either cabled or wireless

5 year warranty

Total power consumption under 1 watt

SFB1LEDP

SFBNRF1LEDP Spitfire
Features:

LED technology 100,000 hours plus lamp life

Single or dual LED option

Superior photometric D40 classification

Advanced technology Lithium Iron Phosphate   battery for long life and low maintenance

Advanced pulsetime battery charging

Low power consumption and LED light source for reduced operation and maintenance costs

Nexus® monitored, either cabled or wireless

5 year warranty

Total power consumption under 1 watt

Stanilite **nexus RF**

PRB220MDWG2P

Features:

Detection angle 120o

Detection zone 360o, 8m distance at 2m to 3m height

High energy-efficient LED lamp tube, consumes only 3W in standby mode

Motion sensor "on" time 2 minutes after last detection

Luminous flux with both lamps on: - 3,400 lumens at full power and 400 lumens in standby

Colour temperature 4,000 - 4,500k, RA>80

LED lamp tube with integral passive infrared (PIR) motion sensor, lamp life 30,000 hours

Emergency light provided by integral LED Spitfire®, in single or dual LED configuration

Features two independent light sources for general illumination, ensuring there is always light available in the

event of a failure

Advanced technology Lithium Iron Phosphate battery for long life and low maintenance

Advanced pulsetime battery charging

Low power consumption and LED light source for reduced operation and maintenance costs

• Designed for ceiling mounted applications

• Nexus® monitored, either cabled or wireless

• 5 year warranty

Features:

LED technology 50,000 hours lamp life

High emergency classification and low maintenance cost - ideal for warehouse, supermarket, factory, carpark and open areas

High temperature NiCad batteries

Large terminal block (16mm$_2$) for easy wiring

Available in Standard, Nexus® LX monitored or Nexus RF monitored

Wall or ceiling mounted

Maintained versions can be utilised for after hours and security lighting and can also be used to provide lighting during general lighting turn to delay or restrike

Protective wire guard available

Stanilite nexusRF

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End of Presentation - Thank you.