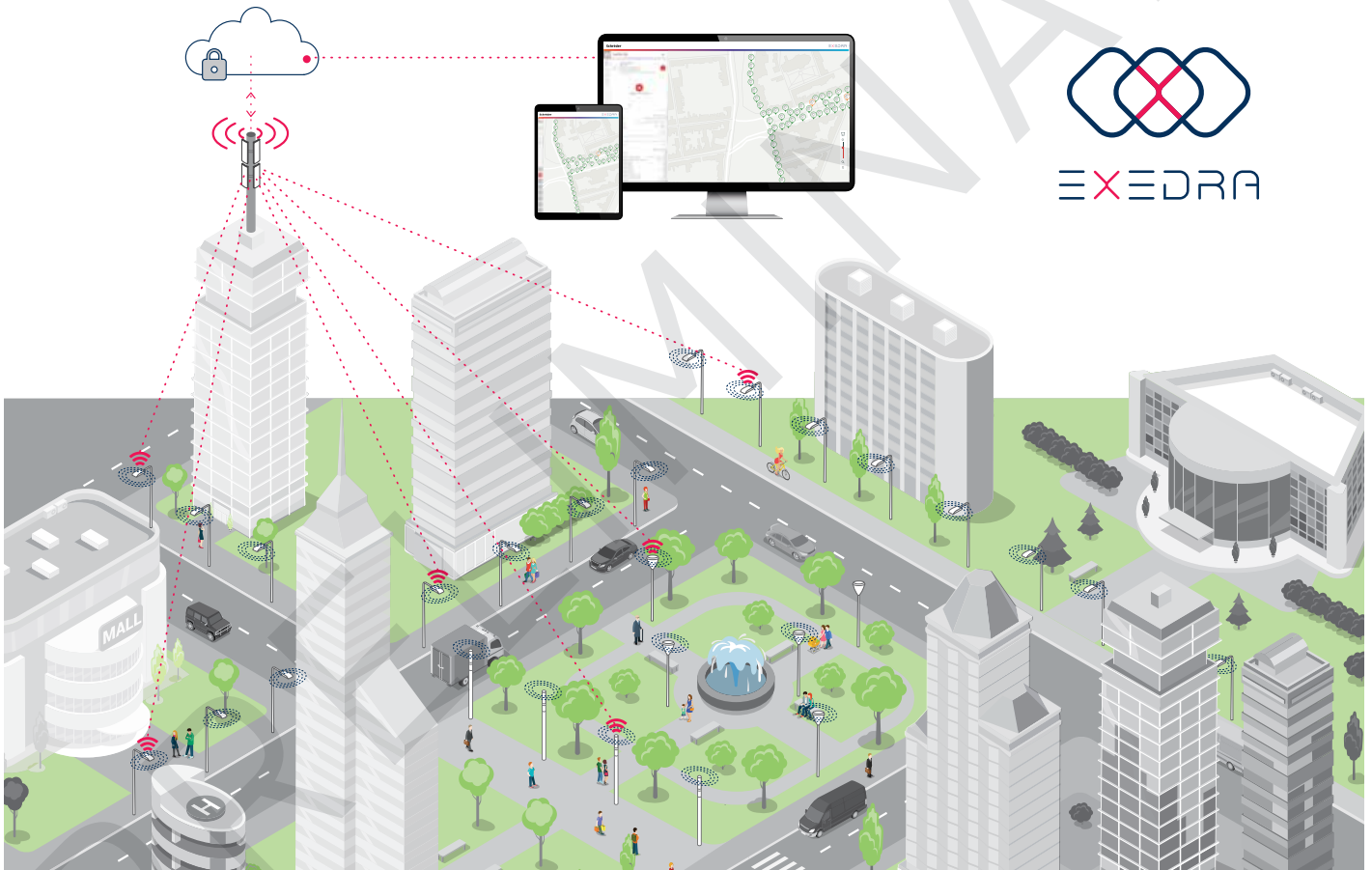


OWLET FOUR NEMA luminaire controllers

OWLET FOUR is Schröder's latest generation of wireless luminaire controllers designed for smart lighting solutions. **OWLET FOUR** controllers are easy to install: commissioning is plug-&-play, and controllers can send a last message when power is cut off. This system benefits from both mesh and cellular networks, optimising coverage, redundancies and increasing security. Controllers connect to EXEDRA, Schröder's advanced smart lighting management platform, where they can be controlled, managed and visualised. **OWLET FOUR** controllers work on Schröder luminaires or luminaires from other suppliers.



Benefits

- **Auto-commissioning**
Easy installation and Plug and Play
- **Auto-geolocation**
GPS-location detection and time synchronisation
- **Real time dynamic lighting**
Mesh technology with sensor enabled controllers
- **Last gasp messaging**
Integrated power bank allowing a last message for power outs
- **Asset management**
Automatic device detection via RFID tag or asset data import
- **Tunable white**
Ability to manage luminaires with variable colour temperature

Features

- Mesh + Cellular networks (2G/4G)
- Built-in GPS, photocell, and RFID reader
- Embedded self-test capability to check installation
- 0-10V and all DALI dimming interfaces
- Digital input for sensors (Occupancy: bicycle paths, etc.)
- +/- 0.5% metering accuracy
- Surge protection
- Reduced inrush current due to zero-crossing detection
- Last gasp – ability to send a last message when power is cut off
- End-to-end encrypted communication
- Over-the-Air firmware update

TECHNICAL INFORMATION - LIFTNODE N & MESHNODE N

Metering and accuracy

Measured parameters	Power, Voltage, Current, Power Factor, Energy	Low-power mesh	IPv6, RPL, 6LoWPAN, MAC - IEEE 802.15.4e, PHY - IEEE 802.15.4.g, 2400 MHz @ +10 dBm
Integrated energy metering accuracy	1% for load >= 15 W 5% for load < 15 W	Cellular modem (LIFTNODES only)	GSM: 1800MHz/900MHz UMTS: B1 (2100MHz)/B8 (900MHz) LTE-FDD: B1 (2100MHz)/B3 (1800MHz)/B7 (2600 MHz)/B8 (900MHz)/20 (800MHz)/B28 (700MHz)

Radio communications

Mains voltage

Voltage (L - N)	110-240Vac ± 10%	Protocol	DALI compliant to IEC62386 Ed. 2
Frequency	50/60Hz ± 5%	Load capacity	4 DALI devices
Max. load current	5A	ESD rating	4kV HBM [TBC]
Max. power at 5A	240V x 5A = 1200W	Protection	Interface is short circuit protected
Required external fuse	[TBC]	Isolation	3108V to AC mains

DALI interface

Housing

Material	Makrolon 6557 Transparent, UV stable, Flame retardant	Protocol	Compliant to 0-10VDC IEC60929 (Annex E)
Colour	Light grey	Min. control voltage	0.2V [TBC]
Protection class	Ingress protection rating IP66 / DIN EN 60529	Load capacity	8 drivers
Impact protection	IK 08	ESD rating	4kV HBM [TBC]
		Isolation	3108V to AC mains

0-10V interface

Average power consumption

Operating wattage	<2W	12Vdc ± 0.5V, 4mA max. [TBC]
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Sensor auxiliary power supply

Operating conditions

Ambient temperature (ta)	-40°C to +65°C 104°F to 149°F	Supports	GPS system (L1C/A signals), Glonass system (L1OF signal), and SBAS (Satellite Based Assist System) [TBC]
Relative humidity	5% to 90%	Position accuracy	Up to 2.5m/ 8ft (with > 6 satellites) [TBC]

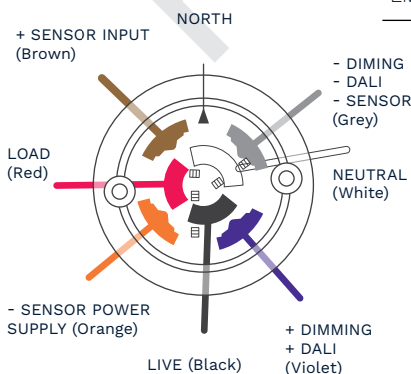
GNSS (Global Navigation Satellite System)

Standards & certificates [TBC]

Approvals	CE	Radio	EN 300 328 V2.1.1 (2.4 GHz SRD)
Standards	RE Directive (2014/53/EU) EMC Directive (2014/30/EU) LV Directive (2014/35/EU) RoHS Directive (2011/65/EU)	DALI Health Connector	DALI2 IEC62386 EN 62311 ANSI C136.10 and ANSI C136.41
EMC	EN 301 489-1 V1.9.2 (Part 1) EN 301 489-17 V2.2.1 (Part 17)	Electrical safety	EN 61347-1:2015 (Part 1) EN 61347-2-11:2001 (Part 2-11)

Electrical connections

NEMA TWIST LOCK (TOP VIEW)
ANSI C 136.41



Model	Part Number	Description
LIFTNODE N	01-78-662	2.4GHz Mesh, Cellular 2G/4G, NEMA socket
MESHNODE N	01-78-663	2.4GHz Mesh, NEMA socket