

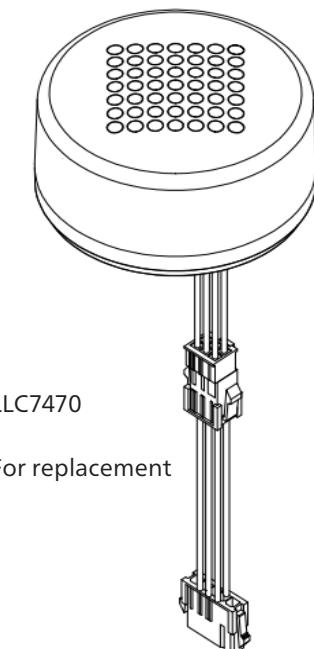


Specification Sheet

LLC747x RF Node

The RF Node LLC747x is designed to control the outdoor luminaires, with standard Conduit (20 MM) socket mounted on the top. The socket facilitates easy installation of the RF Node in factory and in the field.

RF Nodes are compatible with CityTouch remote light management systems. Multiple RF nodes form a mesh network, and exchange data between the luminaires and the light management system via an RF gateway.

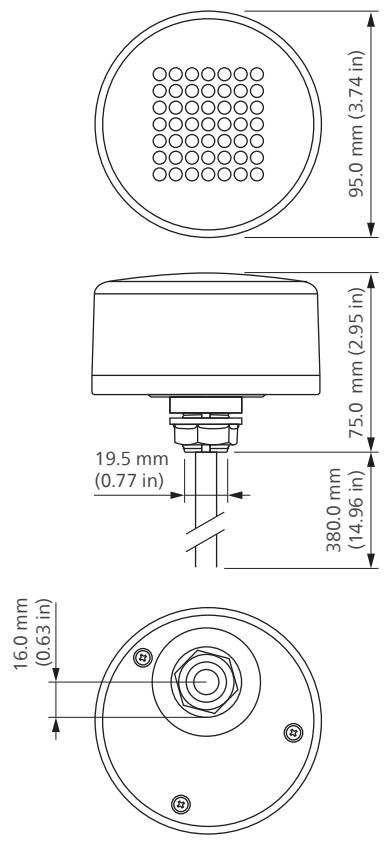


LLC7470

For replacement

LLC747x

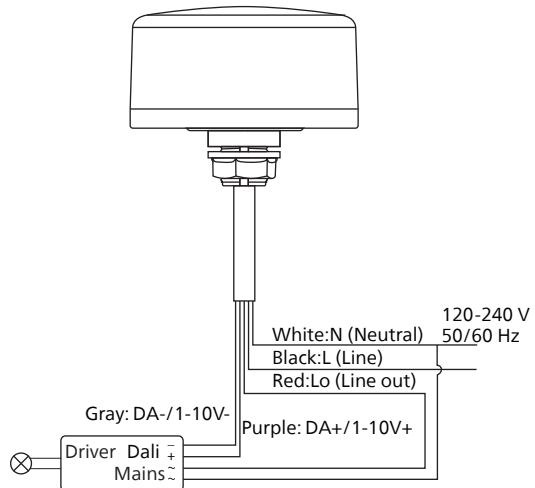
Dimensional drawings



D Note

RF node can only be used in overvoltage category II environment classified as IT equipment.

Wiring diagrams

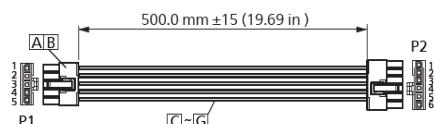
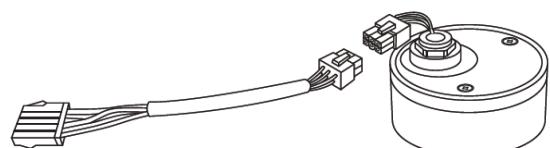


Color of the wires

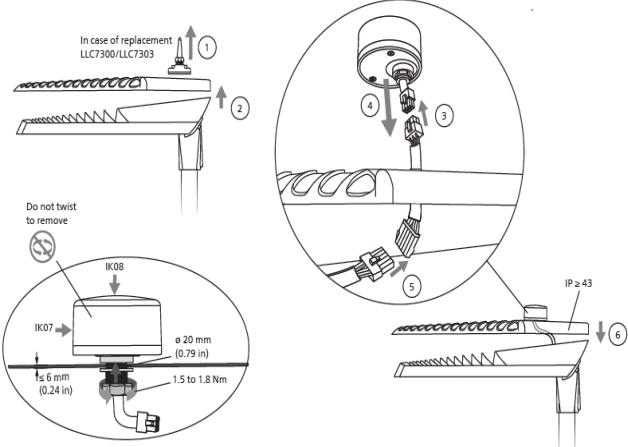
White	Neutral
Black	Line
Red	Switched line
Violet	1-10 V / DA +
Grey	1-10 V / DA -

Replacement of gen1 with gen2 20 mm:

LLC7470



Luminaire side cable and connector



Specifications

Product dimensions		Lifetime	
Height	75 mm (2.95 in)	90% survivals after 15 years continuous operation (125,000 hours) at Tcase-life	
Width	95 mm (3.74 in)		
Net weight per piece	0.245 kg (0.54 lb)		
Operating conditions			Surge immunity
Ambient temperature (t_a)	-25 to 70 °C (LLC7470)	Power supply 6 kV Common Mode acc. IEC61000-4-5. 2 Ω, 1.2/50 μs, 8/20 μs	
Relative humidity	5% to 95%, non-condensing	Control surge (diff. mode) 0.5 kV acc. IEC61000-4-5. 40 Ω, 1.2/50 μs, 8/20 μs	
Non-operating conditions			DALI Interface
Storage temperature	-40 to 85 °C	DALI Supply voltage	Min. 11.5 V, Max. 22 V
Relative humidity	5% to 95%, non-condensing	Guaranteed supply current	Min. 10 mA
Housing			Max. supply current
Glow wire	750 °C	Insulation	DALI: Electrical Insulation 1-10V: Basic insulation
Ingress protection	Suitable for IP66 luminaires. The luminaire shall provide the 20 mm interface.	DALI Performance requirements	IEC 62386-101 edition 2.0 IEC 62386-103 edition 2.0 IEC 62386-351 edition 1.0
Mechanical impact protection	IK08 (Top), IK07 (Side)	DALI supply	DALI master with integrated DALI power supply Suitable for multiple power supplies on a DALI bus
Plug	Supports 20MM Conduit		
Material rating for Flammability			Power Supply
Material rating for UV resistance and Weather resistance	UL94 V2	Power consumption	Standby: 1.5 W Nominal: 2.5 W
Color	UL F1	Mains voltage	120 to 240 Vac
LLC7470 (Replacement)	Light Grey	Operation voltage range	120 to 277 Vac
LLC7471	Black/Smoke Grey	Mains frequency	50 to 60 Hz
LLC7474	Light Grey with GPS	Energy metering	+/- 5% for 220 to 240 V
Mounting			
Fix to luminaire with screw thread through 20 mm hole and provided nut			
Location			
Positioning system (LLC7474)	Build in GPS, CEP50 ≤ 2.5 m (8 ft)	Light sensing device	Inside RF node
		Lux measurement	15 to 200 Lux
		ON / OFF factory settings	ON threshold: 18 Lux OFF threshold: 35 Lux

Wireless connectivity		Compliance	
Center frequency	868.3 MHz	Marking & certificate	CE, UKCA, ENEC, CB
Maximum Effective Radiated Power, e.r.p.	No more than 25mW e.r.p.	Restriction of the use of Hazardous Substances in electrical and electronic equipment	RoHS Directive 2011/65/EU as amended by Directive (EU) 2015/863 of March 2015
Protocol	IEEE802.15.4	Radio Equipment Directive (RED) 2014/53/ EU	IEC/EN 61347-1, IEC/EN 61347-2-11 IEC/EN 62368-1, ETSI EN 300 220-1 ETSI EN 300 220-2, ETSI EN 301 489-1 ETSI EN 301 489-3, ETSI EN 301 489-19 ETSI EN 303 413, EN 55032, EN 55035 EN 55015, EN 61547, EN 50663, EN 62493
Range	Open field (at an installation height of 3.5 m): <ul style="list-style-type: none"> • 300m from RF Node to RF Node • 50m from RF Node to Segment Controller (SC), and SC at an installation height of 0.5m. 	Restriction of the use of Hazardous Substances in electrical and electronic equipment	RoHS substance restrictions (Directive 2011/65/EU) RoHS substance restrictions amendment 1 (Directive 2011/65/EU, as amended by Directive (EU) 2015/863 of March 2015)
Control interface			
Control Method	ON/OFF, DALI, 1-10V		
DALI	DALI master with integrated DALI power supply Supports max 4 DALI drivers		
1-10 V	Supports max: 4x 1-10 V drivers		
Relay			
Electronic Fluorescent Blast	4A @ 120 to 240 VAC for EL driver - AC Electrical Discharge Lamps		
Standard Ballast	4A @ 120 to 240 VAC for EM ballasts - AC Electrical Discharge Lamps		
Insulation	DALI - Electrical Insulation 1-10v - Basic insulation		

Packing data

Type	Box dimensions	Qty	Material	Weight net	Weight gross
Outer Box (30 pcs.)	572 x 369 x 299 mm (21.46 x 13.66 x 8.66 in)	1	Cardboard	8 kg (17.64 lb)	10.8 kg (23.81 lb)

Ordering Data

Type	Description	12NC	EAN code level 1	EAN code level 3	EOC
LLC7470	LLC7470/00 RF NODE 20MM5 ACLV 868MHZ LG	9137 010 41903	8719514 412934	8719514 412941	412934 00
LLC7471	LLC7471/00 RF NODE 20MM5 ACLV 868MHZ SG	9137 010 43103	8719514 412910	8719514 412927	412910 00
LLC7474	LLC7474/00 RF NODE 20MM5 ACLV 868MHZ GLG	9137 010 43203	8719514 412958	8719514 412965	412958 00

Note

Check with your Signify representative on the availability of the RF node in the specific market, before placing an order.

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