



LLC7852/00

Specification Sheet

LLC7852, LLC7853

CT node specific to solar

The CT node is a luminaire-based control device that connects your Solar street light and Interact City lighting management system.

The CT node uses cellular communication to remotely manage, monitor and control each streetlight individually.

The CT node controls the streetlight by switching the main supply and provides dimming by means of a digital (DALI) interface.

The luminaire shall contain a solar system charge controller for powering the CT node.

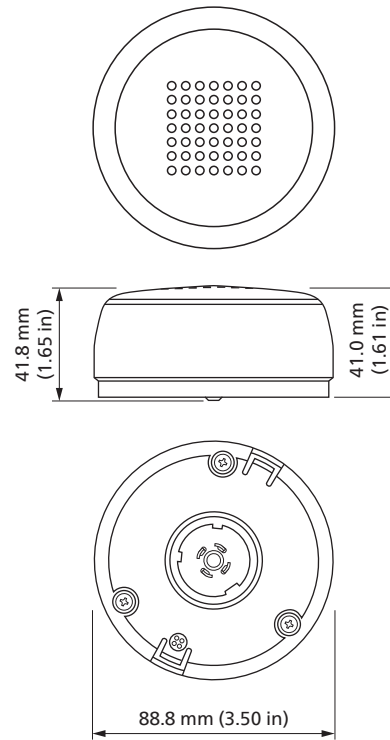


LLC7853/00

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- The CT node is mounted to the luminaire by twist-locking it onto the 4-pin Zhaga receptacle.
- The CT node provides true plug-and-play commissioning: it automatically connects to the mobile network, and automatically locates itself with the onboard GPS.
- The CT Node works with Solar streetlights from Signify.
- The CT Node is available in different colors to match the color of the luminaire.

Dimensional drawings



LLC7852, LLC7853

Specifications

Product Dimensions

Component height	41.8 mm (1.65 in)
Cover height	41.0 mm (1.61 in)
Diameter	88.8 mm (3.50 in)
Weight	0.13 kg (0.29 lb)

Color

LLC7852	Light Grey (RAL 7035)
LLC7853	Dark Grey (RAL 7043)

Supply

Supply voltage	24 Vdc
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Power Consumption

Standby power	≤ 0.5 W
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Control interface

Control method	DALI
Protection	Interface is protected against short circuit
Insulation	Class I, basic insulation
Load capacity	1 solar charge controller

DALI SR interface

Performance requirements DALI	IEC 62386-101 edition 2.0 IEC 62386-103 edition 2.0 IEC 62386-351 edition 1.0 SRS ed.2 DALI Interoperability
DALI input current (PSU off)	Max. 2 mA

Mounting

4-pin plug conform Zhaga book 18

Connectivity

Technology	2G (GPRS) 4G (LTE Cat M1 bands 3, 8 and 20) will be enabled in the future
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Auto location

Positioning device	Inside CT node
Positioning accuracy	CEP50 ≤ 2.5 m

Light control

Light sensing device	Overwritten by PV panel based dusk/dawn detection by charge controller
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Surge immunity

Power supply	6 kV Common Mode acc. IEC61000-4-5. 2 Ω , 1.2/50 μ s, 8/20 μ s
Control surge (diff. mode)	0.5 kV acc. IEC61000-4-5. 40 Ω , 1.2/50 μ s, 8/20 μ s

Temperature characteristics

Operating temperature	-40 to 70 °C (-40 to 158 °F)
T _{case} max	78 °C measured at T _{case} point
T _{case} life	45 °C measured at T _{case} point
Storage temperature	-40 to 80 °C (-40 to 176 °F)
Relative humidity	5 to 95% non-condensing

Lifetime

90% survivals after 15 years continuous operation (125,000 hours) at T_{case}-life.

Certificates and Standards

Approval markings	CE, UKCA, ENEC
Ingress protection classification	IP66 The luminaire shall provide sealing of the compatible receptacle.
Impact resistance classification	IK08

Sustainability

RoHS directive	2011/65/EU
Hazardous substances	Directive 2011/65/EU, as amended by Directive (EU) 2015/863 of March 2015
Chemical substances	REACH Directive 2006/1907/EC
Electronic waste	WEEE Directive 2002/96/EC05

Radio Equipment Directive 2014/53/EU

Safety (lighting equipment)	IEC/EN 61347-1 IEC/EN 61347-2-11
Safety (IT equipment)	IEC/EN 62368-1
EMC (lighting equipment)	EN 55015 EN 61547
EMC (IT equipment)	EN 55032 EN 55024

EMC (telecommunication)	ETSI EN 301 489-1 ETSI EN 301 489-52
EMC (GPS)	ETSI EN 301 489-1 ETSI EN 301 489-19
RF (telecommunication)	ETSI EN 301 511 ETSI EN 301 908-1 ETSI EN 301 908-13
RF (GPS)	EN 303 413
RF exposure	This device meets the EU requirements (2014/53/EU) on the limitation of exposure of the general public to electromagnetic fields by way of health protection. The device complies with RF specifications when the device used is at 321 mm from your body. EN 62311



Ordering Data

Type	Switch type	Order code
LLC7852/00 CT NODE ZHAGA DC EU4VF LG	Astronomical Clock	9137 010 57615
LLC7853/00 CT NODE ZHAGA DC EU4VF DG	Astronomical Clock Photocell	9137 010 57715

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