

Project		Catalog #		Type	
Prepared by		Notes		Date	



Trellix Infrastructure Cellular

Network Lighting Controller

Specification Sheet:
TI-1X-CELL

Interactive Menu

- Ordering Information page 2
- Product Specifications page 2

Product Certifications



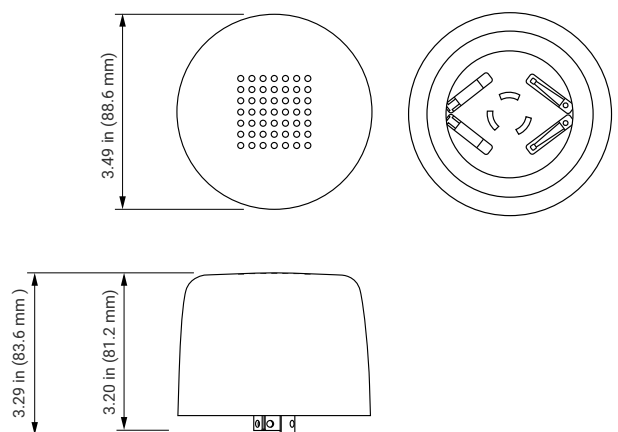
Quick Facts

- The cellular node is mounted to the luminaire by twist locking it onto the 5 or 7 pin NEMA receptacle.
- The cellular node provides true plug and play commissioning: it automatically connects to the mobile network, automatically locates itself with the onboard GPS, and automatically uploads its asset data to the lighting management system.
- The cellular node works together with any certified D4i motion sensor.
- The cellular node includes a tilt sensor to get instant notification in case the orientation of the luminaire and/or pole changes significantly.
- The cellular node works with streetlights from almost any manufacturer
- The cellular node is available in different colors to match the color of the luminaire

Connected Systems

- Trellix Infrastructure powered by Interact City

Dimensional Details



Ordering Information

SAMPLE ORDER NUMBER: **TI-12-CELL**"

Trellix Infrastructure Cellular Connected Lighting Control Order Information)

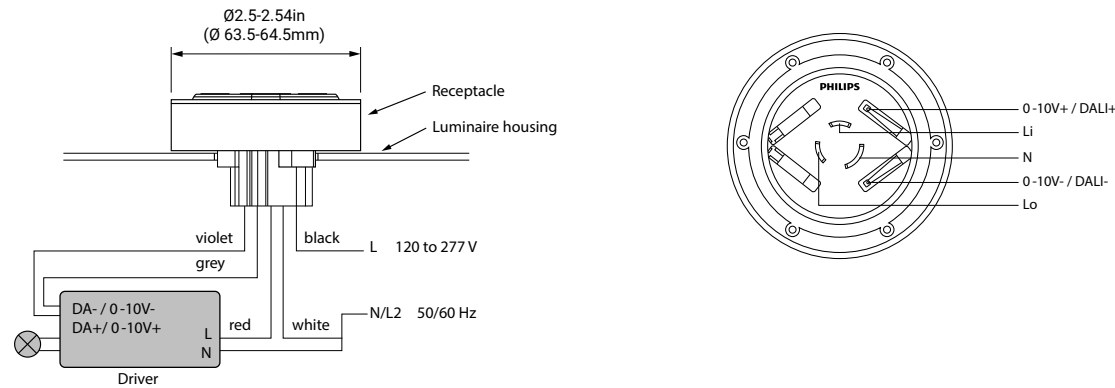
Catalog Number	Description
TI-11-CELL	Black Housing & Photocell version: Phillips LLC7811/00 control node, NEMA 5 pin ANSI C136.41, 120-277V
TI-12-CELL	Gray Housing and Photocell version: Phillips LLC7812/00 control node, NEMA 5 pin ANSI C136.41, 120-277V
TI-14-CELL	Gray Housing and Astro Clock version: Phillips LLC7814/00 control node, NEMA 5 pin ANSI C136.41, 120-277V

SAMPLE ORDER NUMBER: **TI-SAAS-CELL-1YR**

Order one of the following subscription service plans below in conjunction with hardware:

Catalog Number	Description
TI-SAAS-CELL-1YR	1 Year: Trellix Infrastructure Cellular Data and CMS Subscription
TI-SAAS-CELL-5YR	5 year: Trellix Infrastructure Cellular Data and CMS Subscription
TI-SAAS-CELL-10YR	10 year: Trellix Infrastructure Cellular Data and CMS Subscription

Wiring Diagrams



Product Specifications (Philips LLC781X)

Dimensions

- Component Height: 3.29 in (83.6 mm)
- Cover Height: 2.93 in (74.4 mm)
- Diameter: 3.49 in (88.6 mm)
- Weight: 0.6 lb (0.27 kg)

Color

- TI-12-CELL/TI-14-CELL: Light Grey (RAL 7035)
- TI-11-CELL: Black

Supply

- Supply Voltage: 120-277 VAC
- Mains Voltage: 120-277 VAC
- Accuracy on mains voltage: -15%-10%
- Mains frequency: 50/60 Hz
- Accuracy on mains frequency: $\pm 5\%$
- Rated current: 4A at 120 VAC or 3A at 277 VAC

Power Consumption

- Standby power: ≤ 1.5 W

Control interface

- Control method: ON/OFF, 0-10 V, DALI
- Intra-luminaire DALI bus: IEC62386-101, Philips SR certified specifications v2, DALI Data specifications (DALI part 251, 252, 253)
- Protection: Interface is protected against short circuit
- Insulation: UL Class 2, Basic insulation
- Load capacity: Maximum 4 LED drivers up to 400 W

Mounting

- 5-pin plug conform ANSI C136.41

Connectivity

- Technology: 4G (LTE Cat M1 bands 2, 4, 5, 12, and 13)

Energy metering

- Energy metering device: Inside Cellular node
- Energy meter accuracy: 0.5% class conform ANSI C12:20

Auto Location

- Positioning device: Inside Cellular node
- Positioning accuracy: CEP50 ≤ 2.5 m

Luminaire tilt notification

- Tilt sensor: Inside Cellular node
- Tilt threshold accuracy: $\pm 5^\circ$
- Configurable range: Between 20 and 45°
- Default setting: 30°

Light Control

- Light sensing device: Inside Cellular node
- Measurement range: Between .5 and 40 footcandles
- Configurable range: Remote configurable light level between 1.5 and 20 footcandles
- Default setting: Default dusk/dawn level 2/2 footcandles

Astronomical clock control

- Configurable range: Remote configurable time offset range -120 to 120 minutes, sun elevation angle range -25 to 25°
- Default settings: Default dusk/dawn angle 0°/0°

Surge immunity

- Power supply: 6 kV/3kA acc. ANSI C136.10
- Control surge (diff. mode): 0.5 kV acc. IEC61000-4-5 | 40 Ω , 1.2/50 μ s, 8/20 μ s
- Control surge (comm. mode): 1 kV acc. IEC61000-4-5 | 40 Ω , 1.2/50 μ s, 8/20 μ s

Temperature characteristics

- Operating temperature: -40 to 158°F (-40 to 70°C)
- Tcase max: 80°C measured at Tcase point
- Tcase life: 38°C measured at Tcase point
- Storage temperature: -40 to 185°F (40 to 85°C)
- Relative humidity: 5 to 95% non-condensing

Lifetime

- 90% survivals after 15 years continuous operation (125,000 hours) at Tcase-life

Certificates and Standards

- Approval markings: cULus, FCC, ISED
- Operability markings: SR, D4i
- Ingress protection classification: Suitable for IPX6 luminaires. the luminaire shall provide sealing of the NEMA 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

FCC

- EMC: FCC47 Part 15B Class A, ICES-003, Issue 6 class A
- Telecommunication: FCC47 CFR 22H, FCC47 CFR 24E, FCC47 CFR 27C | RSS-130, RSS-132, RSS-133, RSS-139
- RF Exposure: FCC47 part1.1307 & 2.1091, RSS-102
- Safety: UL773, CSA C22.2 No. 182.2

Warranty

- Five-year limited warranty. Contact Cooper Lighting Solutions sales and technical support for details:

trellixinfrastructuresupport@cooperlighting.com