

Telecell: Universal Luminaire Controller



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Overview

Telensa's Telecell is the world's most deployed wireless controller, with a footprint of 2 million nodes and over 10 years of continuous service. No larger than a regular photocell, Telecell variants are available for every type of luminaire, including decorative fixtures.

Long range system	non-line-of-sight range up to 10 miles (16km)
Very low power consumption	up to 4x less than mesh networks
GPS	GPS plots lights in central management system and in asset management map system
Revenue grade meter system	for time-of-use energy consumption
Full coverage	relay function means all lights
Robust	operates normally and logs activity even when disconnected from the network
Resilient	automatically connects to best available base station, always covered by multiple base stations
NFC	NFC chip and smart device app for no-touch provisioning








		NEMA	Conduit	2-Part	Post Top	480 V NEMA
Regulatory	Standards available	FCC/ETSI/UL/IC/EN/CE	FCC/ETSI/IC/EN/CE	FCC/ETSI/IC/EN/CE	FCC/ETSI/UL/IC/EN/CE	FCC/UL/IC
	Manufacturing	ISO9001 and ISO14001	ISO9001 and ISO14001	ISO9001 and ISO14001	ISO9001 and ISO14001	ISO9001 and ISO14001
UNB Radio	Supported bands; Global:	902–928MHz	902–928MHz	902–928MHz	902–928MHz	902–928MHz
	Receiver sensitivity (minimum)	–124dBm	–124dBm	–124dBm	–124dBm	–124dBm
	Transmit power (Maximum ERP)	25 – 100mW	25 – 100mW	25 – 100mW	25 – 100mW	25 – 100mW
NFC Radio		Supported	Supported	Supported	Supported	Supported
Environmental	IP rating	IP66	IP66	IP66	IP66	IP66
	IK rating	IK08	IK06	IK05	IK07	IK07
	Temperature (°C/ °F)	–40 to +70 / –40 to +158	–40 to +70 / –40 to +158*	–40 to +70 / –40 to +158	–40 to +70 / –40 to +158	–40 to +70 / –40 to +158
	Relative Humidity Range	5% – 95%	5% – 95%	5% – 95%	5% – 95%	5% – 95%
	UV resistance	UL UV (f1) rated	UL UV (f1) rated	UL UV (f1) rated	UL UV (f1) rated	UL UV (f1) rated
Power	Voltage (nominal VAC)	100–277 for US	100–277 for US	100–277 for US	100–277 for US	347 – 480
	Consumption (typical)	0.7W	0.7W	0.7W	0.7W	2.2W
	Switching	10A	10A	10A	10A	5A
	Dimming (on-board)	0 – 10V or DALI	0 – 10V or DALI	0 – 10V or DALI	0 – 10V or DALI	0 – 10V or DALI
	Surge protection	10kV/5kA* (tested to ANSI 136.10)	10kV/5kA* (tested to ANSI 136.10)	10kV/5kA* (tested to ANSI 136.10)	10kV/5kA* (tested to ANSI 136.10)	6kV/3kA (tested to ANSI 136.10)
Metering	Accuracy	High-Accuracy Revenue Grade		High-Accuracy Revenue Grade	High-Accuracy Revenue Grade	High-Accuracy Revenue Grade
Physical	Connections	5/7 PIN (ANSI C136.41)	5 wire (dimming)	5 wire (dimming)	5/7 PIN (ANSI C136.41)	5/7 PIN (ANSI C136.41)
		3 PIN (ANSI C136.10)	3 wire (on/off only)	3 wire (on/off only)	3 PIN (ANSI C136.10)	3 PIN (ANSI C136.10)
	Dimensions (H x D)	2.31"x 3.41"[58.6x 86.6mm]	2.31"x 3.41"[58.6x 86.6mm]	1.34 x 3.5"[34 x 89mm]	2.31"x 3.41"[58.6x 86.6mm]	4.47"x 3.46"[113.5x 87.9mm]
	Antenna	Internal	Internal	External** (purchased separately)	External** (purchased separately)	Internal
Location	Accuracy	2.5m CEP	2.5m CEP	2.5m CEP	2.5m CEP	2.5m CEP

* For FCC variants the standard rating is 6kV/3kA, and 10kV/5kA is an option

* -20°C (-4°F) for ETSI variant

** External antenna options

Twig	Low profile	Easy-fit
		
H:102mm[4.02"]	H:104mm[4.09"]	H:130mm[5.12"]



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