

# 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.

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





**NEMA**

**Conduit**

**2-Part**

**Post Top**

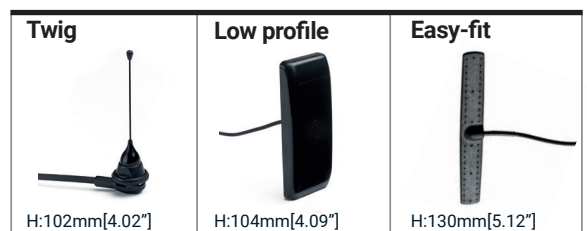
**480 V NEMA**

		NEMA	Conduit	2-Part	Post Top	480 V NEMA	
<b>Regulatory</b>	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	
<b>UNB Radio</b>	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	
<b>NFC Radio</b>		Supported	Supported	Supported	Supported	Supported	
<b>Environmental</b>	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	
<b>Power</b>	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*	10kV/5kA*	10kV/5kA*	10kV/5kA*	6kV/3kA
			(tested to ANSI 136.10)	(tested to ANSI 136.10)	(tested to ANSI 136.10)	(tested to ANSI 136.10)	(tested to ANSI 136.10)
<b>Metering</b>	Accuracy	High-Accuracy Revenue Grade	High-Accuracy Revenue Grade	High-Accuracy Revenue Grade	High-Accuracy Revenue Grade	High-Accuracy Revenue Grade	
<b>Physical</b>	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	
<b>Location</b>	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





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