



LED Lighting Control Sentinel System

Catalog number:
Type:
Notes:

FEATURES & SPECIFICATIONS

Intended Use

Designed to provide a robust and cost effective way to wirelessly control your entire streetlight network.

Summary

The Relume Sentinel RF Wireless Lighting control system is a complete RF transceiver and data modem for operation in the licensed part 90 450 - 465MHz UHF band. The system uses existing wireless infrastructure to communication bi-directionally with HID, LED, Induction or other type light sources and will also control relay loads.

Status/error Reporting

The Sentinel system is capable of monitoring the operating characteristics of the fixture and reporting real/historical energy consumption, fixture errors, operating mode, burn time, and maintenance issues.

Lamp Control

Each lamp can be controlled via a dimmable ballast using PWM, inverted PWM, 0-10V analog, or digital control with up to 16 dimming levels and 3 flashing modes.

Protecting the Night

The Sentinel System can be integrated with police, fire and 911 services and allows for emergency reporting, and call or panic button support.

General Specifications

Dimensions: 4.5" x 2.5" x 1.25"
 Ambient temperature: -40 to +85 deg C
 Relative Humidity: 90% and 50 deg C
 Altitude: 15,000 ft
 Antenna Connection: SMA
 Maximum addressing capacity: Over 16M transceivers.

Ordering Information

Lead times will vary depending on options selected. Consult with your sales representative or contact Relume at 248.969.3800. Fax us at 248.969.3804

RF/AC/DC Characteristics:

Description	Min	Typ	Max	Units	Notes
RF Supply Voltage	4.0	7.2	7.5	Vdc	
RF Supply Current Receive		30		ma	
RF Supply Current Transmit		2.2	2.5	A	
Control Supply Voltage	12	15	24	Vdc	
Control Supply Current		2	20	ma	
RF Frequency Range	450		465	MHz	
RF Transmit Power		3.5	5	W	
Tx/Rx Separation		5		MHz	
RF Connector Impedance		50		ohms	
Frequency Stability		+/-2.5		ppm	
Modulation		GFSK			
Deviation		+/-2.5 kHz			
Channel Spacing		12.5		kHz	
Data Rate			20 k	Hz	Manchester Data
PL Tone Range	60		250	Hz	
Receive Sensitivity		-115		dBm	
Spurious Rejection	-40			dB	At 12.5kHz
	-52			dB	At 25kHz
	-78			dB	At 5MHz

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Warranty

Relume guarantees unsurpassed quality by offering an industry leading 7 year limited warranty. Contact Relume for complete warranty language, exceptions, and limitations.

