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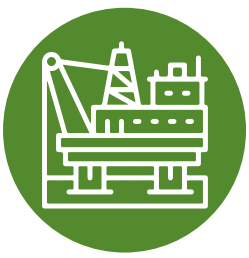
Innovative Lighting Technologies

Luminaire Control Unit

LCU-5X

For parks and pedestrian areas

Warehouse



Industrial

For highways

For parking lots

IP
66

AC - 85...305 V
47...63Hz
DC - 120...430 V

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Luminaire Control Unit

Technical characteristics

Scope
Luminaire or registration and control cabinet with NEMA 7pin connector

Specifications	
Radio module	Digi XBee® 3 Zigbee 3.0
Frequency range	ISM 2400 MHz
Data communication protocol	Zigbee® 3.0
Network type	Mesh
Data communication level	+8 dBm
Receiver sensitivity	-103 dBm in the normal mode
Data communication distance	60 m
Data communication distance in open space	1200 m
Interface for external devices	UART, SPI, I2C
External connector of the module	ANSI C136.41 NEMA 7pin
Housing design	IP66
Main supply voltage	AC - 85… 305 V 50 Hz; DC - 120…430 V
Current consumption	max. 0.75 mA
Operating temperature range	-30°C … +70°C
Overall dimensions	3.34 x 3.34 x 4.72 inch
Weight	max. 0.44 lbs

Operational features and advantages:
Using a public channel at 2400 MHz via Zigbee® 3.0 does not require additional financial expenses and monthly account replenishment.
Monitoring and diagnostics of the technical condition of the serviced facility, as well as power supply parameters (current, voltage, and power)
Immediate (in the Broadcast mode) notification of the dispatching service about all regular and emergency events at the serviced facility
ZigBee is a network with self-organization and self-recovery. After energizing luminaires, ZigBee devices, due to the built-in software, find each other and form a mesh network. If one of the luminaires fails, the network will automatically set a new route to communicate messages and will transmit configuration data.
Ability to control the facility through digital interfaces
Possibility of adaptation of control modes taking into account the built-in photosensor and the external motion sensor
The resource of components allows providing a mode of operation for 10 years